

# ACE Extension Lathrop to Ceres/Merced Final Environmental Impact Report • Volume I SCH #2018012014



MERCED

July 2018

# FINAL ENVIRONMENTAL IMPACT REPORT

# SAN JOAQUIN REGIONAL RAIL COMMISSION ACE EXTENSION LATHROP TO CERES/MERCED

# STATE CLEARINGHOUSE #2018012014

PREPARED FOR:



San Joaquin Regional Rail Commission

San Joaquin Regional Rail Commission 949 East Channel Street Stockton, CA 95202 Contact: Kevin Sheridan ACEextension.south@gmail.com

# **P**REPARED BY:

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July 2018



ICF. 2018. San Joaquin Regional Rail Commission ACE Extension Lathrop to Ceres/Merced Environmental Impact Report. Final. July. (ICF 00509.17.) San Francisco, CA. Prepared for San Joaquin Regional Rail Commission, Stockton, CA.

# Contents

2	List of Table	es	v	
3	List of Figuresvi			
4	List of Acro	nyms and Abbreviations	vii	
5				
6	Chapter 1 Intro	oduction	1-1	
7	Chapter 2 Com	ments Received on the Draft EIR	2-1	
8	2.1	Draft EIR Comments		
9	Chapter 3 Resp	oonses to Comments		
10	3.1	Individual Responses	3-1	
11	3.1.1	Response to Comment Letter S1, Caltrans	3-1	
12	3.1.2	Response to Comment Letter S2, State Lands Commission	3-2	
13	3.1.3	Response to Comment Letter S3, Central Valley Flood Protection Board	3-8	
14 15	3.1.4	Response to Comment Letter S4, State of California Governor's Office of Planning and Research	3-9	
16 17	3.1.5	Response to Comment Letter R1, Central Valley Regional Water Quality Control Board		
18 19	3.1.6	Response to Comment Letter L1, Alameda County Transportation Commission	2_11	
20	3.1.7	Response to Comment Letter L2, City of Livermore		
21	3.1.8	Response to Comment Letter L2, City of Elverniore		
22	3.1.9	Response to Comment Letter L4, City of Ripon		
23 24	3.1.10	Response to Comment Letter L5, Merced County Association of Governments		
24 25	2 1 11	Response to Comment Letter O1, Merced County Farm Bureau		
23 26		Response to Comment Letter O2, TRAC/TRANSDEF		
20 27		Response to Comment Letter P1, Scoto Properties LLC & Scoto Brothers		
28	5.1.15	Farming, Inc.	3-26	
29	3.1.14	Response to Comment Letter P2, Terra Land Group, LLC		
30	3.1.15	Response to Comment Letter P3, Union Pacific Rail Road	3-34	
31	3.1.16	Response to Comment Letter I1, Albert Cresci	3-34	
32	3.1.17	Response to Comment Letter I2, Hoang-An Doan	3-34	
33	3.1.18	Response to Comment Letter I3, Mark Jacops	3-35	
34	3.1.19	Response to Comment Letter I4, Brad Johnson	3-35	
35	3.1.20	Response to Comment Letter I5, Linda Johnson	3-35	
36	3.1.21	Response to Comment Letter I6, Frank McHugh	3-35	

1

1	3.1.22 Response to Comment Letter I7, Richard Meissner	3-35
2	3.1.23 Response to Comment Letter I8, Frank and Christine Mendes	3-36
3	3.1.24 Response to Comment Letter I9, Kevin Moss	3-36
4	3.1.25 Response to Comment Letter I10, Sandra Moss	3-37
5	3.1.26 Response to Comment Letter I11, Kenneth Sacca	3-37
6	3.1.27 Response to Comment Letter I12, Adam Serpa	3-37
7	3.1.28 Response to Comment Letter I13, Chris Stai	3-37
8	Chapter 4 Text Revisions to the Draft EIR	. 4-1
9	Global Text Changes	.4-1
10	Executive Summary	.4-1
11	Chapter 2, Description of Phase I Improvements	.4-2
12	Chapter 3, Description of Phase II Improvements	.4-5
13	Section 4.2, Agricultural Resources	.4-5
14	Section 4.4, Biological Resources	.4-6
15	Section 4.5, Cultural Resources	4-14
16	Section 4.9, Hazardous Materials	4-15
17	Section 4.10, Hydrology and Water Quality	4-15
18	Section 4.11, Land Use and Planning	4-16
19	Section 4.12, Noise and Vibration	4-21
20	Section 4.13, Population and Housing	4-26
21	Section 4.14, Public Services	4-26
22	Section 4.17, Transportation and Traffic	4-27
23	Section 4.18, Utilities and Service Systems	4-27
24	Chapter 5, Other CEQA-Required Analysis	4-27
25	Chapter 6, Alternatives	4-27
26	Chapter 9, References	4-35
27	Section 4.2, Agricultural Resources	4-35
28	Section 4.3, Air Quality	4-35
29	Section 4.4, Biological Resources	4-36
30	Section 4.11, Land Use and Planning	4-36
31	Section 4.12, Noise and Vibration	4-36
32	Section 4.13, Population and Housing	4-37
33	Section 4.14, Public Services	4-37
34	Section 4.17, Transportation and Traffic	4-37
35	Chapter 6, Alternatives	
36	Appendix G, Regional Plans and Local General Plans	4-38
37	G.1 Aesthetics	4-38

1	G.2	Agricultural Resources	4-40
2	G.3	Air Quality	4-40
3	G.4	Energy	4-41
4	G.5	Biological Resources	4-41
5	G.10	Hydrology and Water Quality	4-42
6	G.11	Land Use and Planning	4-44
7	G.12	Noise and Vibration	4-44
8	G.14	Public Services	4-46
9	G.15	Recreation	4-46
10	G.16	Safety and Security	4-47
11	G.17	Transportation and Traffic	4-47
12	G.18	Utilities and Service Systems	4-48
13	G.19	References	4-48
14	Appendix L	-1, ACE Extension Archeological Inventory Report	4-49
15	Chapte	r 3, Environmental and Cultural Setting	4-49
16	Chapte	r 9, Bibliography	4-50
17	Chapter 5 Lath	rop Wye Double Track Description and Impact Analysis	
18	5.1	Description of Lathrop Wye Double Track	5-1
19	5.1.1	Construction Equipment and Schedule	5-2
20	5.1.2	Costs	5-2
21	5.2	Environmental Impacts of the Lathrop Wye Double Track	5-3
22	5.2.1	Aesthetics	5-3
23	5.2.2	Agricultural Resources	5-4
24	5.2.3	Air Quality	5-5
25	5.2.4	Biological Resources	5-10
26	5.2.5	Cultural Resources	5-14
27	5.2.6	Energy	5-15
28	5.2.7	Geology and Soils	5-16
29	5.2.8	Greenhouse Gas Emissions	5-18
30	5.2.9	Hazardous Materials	5-20
31	5.2.10	Hydrology and Water Quality	5-22
32	5.2.11	Land Use and Planning	5-24
33	5.2.12	Noise and Vibration	5-25
34	5.2.13	Population and Housing	5-27
35	5.2.14	Public Services	5-28
36	5.2.15	Recreation	5-29
37	5.2.16	Safety and Security	5-29

1	5.2.17	Transportation and Traffic5-3	1
2	5.2.18	Utilities and Service Systems5-3	5
3	5.2.19	Cumulative Impacts5-3	8
4	Chapter 6 Refe	rences6·	·1
5			
6	Appendix A	Updated ACE Extension Environmental Footprint	
7	Appendix B	Updated ACE Extension 15% Preliminary Engineering Plans	
8	Appendix C	Lathrop Wye Double Track 15% Preliminary Engineering Plans	
9	Appendix D	Updated ACE Extension Opinion of Probable Cost Report.	

1

# Tables

2	2-1	List of Commenters and Location of Responses2	-1
3 4	5-1	Estimated Mitigated Construction Criteria Pollutant Emissions from Construction of the Lathrop Wye Double Track in the San Joaquin Valley Air Pollution Control District5	-6
5 6 7	5-2	Estimated Mitigated Construction Criteria Pollutant Emissions from Phase I Construction, including the Lathrop Wye Double Track in the San Joaquin Valley Air Pollution Control District	-7
8 9	5-3	Lathrop Wye Double Track - Land Cover Types in the Environmental Footprint (acres)	10
10 11	5-4	Lathrop Wye Double Track —Impacts on Land Covers That May Contain Suitable Habitat for Special-Status Plant Species (acres)5-1	11
12	5-5	Lathrop Wye Double Track—Construction Fuel Consumption5-2	16
13	5-6	Lathrop Wye Double Track – Geologic Hazards5-2	L7
14 15	5-7	Estimated Construction Greenhouse Gas Emissions for the Lathrop Wye Double Track	٤9
16 17	5-8	Estimated Construction Greenhouse Gas Emissions for the Phase I Improvements Including the Lathrop Wye Double Track5-1	٤9
18 19	5-9	Lathrop Wye Double Track – Hazardous Materials Sources with Potential to Affect Existing Conditions	20
20 21	5-10	Hazardous Materials Sites within 0.25 mile of Lathrop Wye Double Track Improvements5-2	21
22 23	5-11	Overview of Phase I Operational Noise Impacts for Residences on Gianna Lane in Manteca	26
24	5-12	Lathrop Wye Double Track - Utilities Potentially Affected	37

1

2

# **Figures**

3	5-1	Lathrop Wye Double Track	5-2
4	5-2	Lathrop Wye Double Track - Important Farmlands	5-4
5	5-3	Lathrop Wye Double Track - Land Cover	. 5-10
6	5-4	Lathrop Wye Double Track – Special-Status Wildlife Species Habitat	. 5-12
7	5-5	Lathrop Wye Double Track – Land Use Designations	. 5-24
8	5-6	Lathrop to Ceres – Phase I Noise Impacts in Manteca	. 5-26
9	5-7	Lathrop Wye Double Track – Airports and Fire Hazard Severity Zones in Study Area	. 5-30

1

# **Acronyms and Abbreviations**

AAQA	ambient air quality analysis
ACE	Altamont Corridor Express
ACE Extension	Extension Lathrop to Ceres/Merced
АСТС	Alameda County Transportation Commission
AIA	Airport's Airport Influence Area
Alameda CTC	Alameda County Transportation Commission
BAAQMD	Bay Area Air Quality Management District
Board	Central Valley Flood Protection Board
C0 <sub>2</sub> e	carbon dioxide equivalent
CAAQS	California ambient air quality standards
Caltrans	California Department of Transportation
CCIC	Central Coast Information Center
CDFW	California Department of Fish and Wildlife
Central Valley RWQCB	Regional Water Quality Control Board
CEQA	California Environmental Quality Act
CH <sub>4</sub>	methane
CO	carbon monoxide
CO <sub>2</sub>	carbon dioxide
CRMP	construction risk management plan
CVFPB	Central Valley Flood Protection Board
DCTA	Denton County Transit Authority
DTSC	Department of Toxic Substance Control
EIR	environmental impact report
FHWG	Fisheries Hydroacoustic Working Group
НСР	Habitat Conservation Plan
HSR	High-Speed Rail
MCAG	Merced County Association of Governments
MCFB	Merced County Farm Bureau
MOW	Maintenance of way
MP	mile-post
N <sub>2</sub> O	nitrous oxide
NO <sub>X</sub>	nitrogen oxide
OPR	Office of Planning and Research
PM10	particulate matter that is 10 microns in diameter and smaller
PM2.5	particulate matter that is 2.5 microns in diameter and smaller
PTC	Positive Train Control
RC	reinforced concrete
ROG	reactive organic gases
RTP	Regional Transportation Plan
RWQCB	Regional Water Quality Control Board
SEL	sound exposure level
SFBAAB	San Francisco Bay Area Air Basin
SJCOG	San Joaquin Council of Governments

Contents

SJMSCP	San Joaquin County Multi-Species Habitat Conservation and Open
	Space Plan
SJRRC	San Joaquin Regional Rail Commission
SJVAB	San Joaquin Valley Air Basin
SJVAPCD	San Joaquin Valley Air Pollution Control District
SLC	California State Lands Commission
SO <sub>2</sub>	sulfur dioxide
SR	State Route
StanCOG	Stanislaus Council of Governments
SWPPP	stormwater pollution prevention plan
TIH	toxic inhalation hazard
TRAC	Train Riders Association of California
TRANSDEF	Transportation Solutions Defense and Education Fund
UPRR	Union Pacific Railroad
USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service
VTA	Valley Transportation Authority
WDR	Waste Discharge Requirement

1

viii

1	Chapter 1
2	Introduction

3 4 5 6 7 8 9	This final environmental impact report (EIR) for the Altamont Corridor Express (ACE) Extension Lathrop to Ceres/Merced (ACE Extension) project has been prepared in compliance with the California Environmental Quality Act (CEQA). This final EIR consists of the draft EIR, appendices, comments, response to comments, revisions to the draft EIR and the mitigation monitoring plan. The San Joaquin Regional Rail Commission (SJRRC) is the CEQA lead agency for the ACE Extension. As required by CEQA, the draft EIR was made available to the public and regulatory agencies for review and comment during a 45-day period between April 13, 2018 and May 28, 2018. An open house was
10	held on May 8, 2018, to receive comments on the draft EIR.
11 12 13	The CEQA Guidelines require that written responses be prepared for all comments regarding environmental issues received on a draft EIR during the public review period. Per Section 15132 of the CEQA Guidelines, a final EIR shall consist of:
14	1. The draft EIR or a revision of that draft.
15	2. Comments and recommendations received on the draft EIR either verbatim or in a summary.
16	3. A list of persons, organizations, and public agencies commenting on the draft EIR.
17 18	4. The response of the lead agency to significant environmental points raised in the review and consultation process.
19	5. Any other information added by the lead agency.
20	In compliance with CEQA, this document contains the following:
21 22	• Comments received on the April 2018 draft EIR (Chapter 2, <i>Comments Received on the Draft EIR</i> );
23	• Responses to those comments (Chapter 3, Responses to Comments);
24	• Revisions to the draft EIR in the form of an errata (Chapter 4, <i>Text Revisions to the Draft EIR</i> );
25 26	• An analysis of environmental impacts resulting from one change in the project description (Chapter 5, <i>Lathrop Wye Double Track Description and Impact Analysis</i> ); and
27 28	• List of print references and personal communications cited in this final EIR (Chapter 6, <i>References</i> ).
29	Appendix A, Updated ACE Extension Environmental Footprint
30	• Appendix B, Updated ACE Extension 15% Preliminary Engineering Plans
31	• Appendix C, Lathrop Wye Double Track 15% Preliminary Engineering Plans
32	• Appendix D, Updated ACE Extension Opinion of Probable Cost Report.
33 34	The April 2018 draft EIR is incorporated by reference and is provided on a DVD inside the back cover of this document.
35 36	Under the CEQA Guidelines Section 15088.5, a lead agency is required to recirculate an EIR when significant new information is added to the EIR. As used in this section, the term "information" is not

- "significant" unless the EIR is changed in a way that deprives the public of a meaningful opportunity
   to comment upon a substantial adverse environmental effect of the project. "Significant new
- 3 information" requiring recirculation include, for example, a disclosure showing that:
- A new significant environmental impact would result from the project or from a new mitigation
   measure proposed to be implemented.
- A substantial increase in the severity of an environmental impact would result unless mitigation
   measures are adopted that reduce the impact to a level of insignificance.
- 8 3. A feasible project alternative or mitigation measure considerably different from others
   9 previously analyzed would clearly lessen the environmental impacts of the project, but the
   10 project's proponents decline to adopt it.
- 11During the preparation of the final EIR, SJRRC and UPRR identified the need for an additional track12improvement in one location to support the ACE Extension to Ceres and Merced. Revisions to the13EIR are described in Chapter 5, Lathrop Wye Double Track Description and Impact Analysis. The14improvements associated with the Lathrop Wye Double Track have been reviewed and the15environmental impacts of these changes are disclosed in Chapter 5, Lathrop Wye Double Track16Description and Impact Analysis.
- SJRCC, as the CEQA Lead Agency, has, supported by substantial evidence, determined that the changes associated with the Lathrop Wye Double Track would not result in any new significant impacts, nor any substantially more severe impacts than disclosed in the draft EIR and thus there is no need to recirculate the draft EIR. SJRCC, as the CEQA Lead Agency, has also determined that the revisions to the draft EIR made in response to comments would not result in any new significant impacts, nor any substantially more severe impacts than disclosed in the draft EIR and thus there is no need to recirculate the draft EIR.

1	Chapter 2
2	Comments Received on the Draft EIR

This chapter includes a list of the public agencies, organizations, private companies, and individuals who commented on the draft EIR (Table 2-1); and the actual comment letters submitted. The comment letters have been numbered as shown in Table 2-1 and include letters and emails. The individual comments within each letter have been numbered in the margin. There is a response for each comment in Chapter 3, *Responses to Comments*. The location of the responses for each letter is indicated in Table 2-1.

# 9 Table 2-1. List of Commenters and Location of Responses

Letter #	Commenter	Location of Responses in Chapter 3				
State Age	State Agencies					
S1	California Department of Transportation (Caltrans)	Page 3-1				
S2	California State Lands Commission (SLC)	Page 3-2				
S3	Central Valley Flood Protection Board (CVFPB)	Page 3-8				
S4	State of California Governor's Office of Planning and Research (OPR)	Page 3-9				
Regional	Agencies					
R1	Central Valley Regional Water Quality Control Board (Central Valley RWQCB)	Page 3-9				
Local Age	encies					
L1	Alameda County Transportation Commission (Alameda CTC)	Page 3-11				
L2	City of Livermore	Page 3-12				
L3	City of Merced	Page 3-12				
L4	City of Ripon	Page 3-13				
L5	Merced County Association of Governments (MCAG)	Page 3-13				
Organiza	tions					
01	Merced County Farm Bureau (MCFB)	Page 3-13				
02	Train Riders Association of California (TRAC) & Transportation Solutions Defense and Education Fund (TRANSDEF)	Page 3-16				
Private C	ompanies					
P1	Scoto Properties LLC & Scoto Brothers Farming, Inc	Page 3-26				
P2	Terra Land Group LLC	Page 3-28				
Р3	Union Pacific Railroad (UPRR)	Page 3-33				
Individua	lls					
I1	Albert Cresci	Page 3-34				
I2	Hong-An Doan	Page 3-34				
I3	Mark Jacops	Page 3-34				
I4	Brad Johnson	Page 3-34				

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Letter #	Commenter	Location of Responses in Chapter 3
I5	Linda Johnson	Page 3-35
I6	Frank Mchugh	Page 3-35
I7	Richard Meissner	Page 3-35
I8	Frank and Christine Mendes	Page 3-36
19	Kevin Moss	Page 3-36
I10	Sandra Moss	Page 3-36
I11	Kenneth Sacca	Page 3-37
I12	Adam Serpa	Page 3-37
I13	Christopher Stai	Page 3-37

# 2 2.1 Draft EIR Comments

3

The following pages include comments received on the draft EIR in their entirety.

2-2



# SCH - 2018012014 - ACE Extension Lathrop to Ceres Merced Project - Caltrans Comments - 05-29-18

1 message

#### Wu, Bo@DOT <Bo.Wu@dot.ca.gov>

Tue, May 29, 2018 at 4:56 PM

To: "ACEextension.south@gmail.com" <ACEextension.south@gmail.com> Cc: "Bushong, Christian M@DOT" <christian.bushong@dot.ca.gov>, "Behrooj, Hadi H@DOT" <hadi.behrooj@dot.ca.gov>, "Maurice, Patricia@DOT" <patricia.maurice@dot.ca.gov>, "Dumas, Thomas A@DOT" <tom.dumas@dot.ca.gov>, "Cheung, Jerry@DOT" <Jerry.Cheung@dot.ca.gov>, "Martinez, Steven R@DOT" <Steven.R.Martinez@dot.ca.gov>, "Swearingen, Joshua B@DOT" <joshua.swearingen@dot.ca.gov>

Good afternoon.

Attached is Caltrans' comment letter for the ACE Extension Lathrop to Ceres/Merced Project. SCH# 2018012014.

Thank you,

#### **Bo Wu**

LD-IGR Statewide Coordinator

Office of Smart Mobility and Climate Change

**Division of Transportation Planning** 

California Department of Transportation

bo.wu@dot.ca.gov | (916) 651-8197

How did we do? Help us serve you better! Caltrans DOTP Customer Service Survey Link https://www.surveymonkey.com/r/CTDOTP



SCH\_-\_2018012014\_-\_ACE\_Extension\_Lathrop\_to\_Ceres\_Merced\_Project\_-Caltrans\_Comments\_-\_05-29-18.pdf 969K

STATE OF CALIFORNIA-CALIFORNIA STATE TRANSPORTATION AGENCY

DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION PLANNING P.O. BOX 942874, MS-32 SACRAMENTO, CA 94274 PHONE (916) 653-1637 FAX (916) 653-0001 TTY 711 www.dot.ca.gov EDMUND G. BROWN Jr., Governor



Making Conservation a California Way of Life.

May 29, 2018

SCH# 2018012014 GTS# 04-MULTIPLE-2018-00072 GTS I.D. 10454

Mr. Kevin Sheridan San Joaquin Regional Rail Commission 949 East Channel Street Stockton, CA 95202

### ACE Extension Lathrop to Ceres/Merced Project - Draft Environmental Impact Report

Dear Mr. Sheridan:

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the Draft Environmental Impact Report (DEIR) of the proposed ACE Extension Lathrop to Ceres/Merced Project (project). The mission of Caltrans is to provide a safe, sustainable, integrated, and efficient transportation system to enhance California's economy and livability.

Caltrans is the responsible agency of this project where the State Highway System (SHS) is involved and has the following comments at this time:

Segments that affect the State Right of Way (ROW) will require the following discussion:

- · Maintenance Agreements between all affected parties.
- · Signal Operations must be addressed to ensure continued optimal function.
- Features affecting bridge structures, columns, footings, vertical clearances, etcetera, requires Headquarters Office of Structures input.

The follow are additional Caltrans Policies that are not all-inclusive, and may be applicable:

- Project Development Procedures Manual (PDPM) Chapter 17 "Encroachments and Utilities" for topic matters regarding encroachments within State ROW, installing utilities within State ROW, etc. <u>http://www.dot.ca.gov/design/manuals/pdpm.html</u>
- PDPM Chapter 27 Access Control Modification. Please note that access control rights are preserved; connection points on freeways and expressways are kept to a minimum. Access control modification is permitted only after careful analysis to determine that no detrimental effect would impact facility operation. http://www.dot.ca.gov/design/manuals/pdpm.html

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Mr. Sheridan, San Joaquin Regional Rail Commission May 29, 2018 Page 2

- Any design features affecting State facility's design standards/features based on the Caltrans Highway Design Manual (HDM) will have to be evaluated. See HDM Table 82.1 located within Chapter 80, Application of Design Standards. http://www.dot.ca.gov/design/manuals/hdm.html
- A transit platform and associated facilities/structures within the State ROW will require review/input from the Division of the State Architect. http://www.dgs.ca.gov/dsa/home.aspx
- The transit platform and associated facilities will also have to comply with "Pedestrian Accessibility Guidelines for Highway Projects" from the Design Information Bulletin (DIB) 82-06 <u>http://www.dot.ca.gov/design/stp/dib/dib82-06.pdf</u>

Growth and development can have a significant impact on traffic and congestion on State and local transportation facilities. In order to create more efficient and livable communities, we encourage the applicant to work towards a safe, functional, interconnected, multi-modal system integrated with "smart growth" type planning propose mitigation measures.

In lieu of reliance on the automobile, we encourage the applicant to design features that are pedestrian-, bicycle-, and transit-friendly in order to enable residents to choose alternative modes of transportation to the ACE facilities. Improved transit accommodation through the provision of park and ride facilities, signal prioritization, and other enhancements, such as Zero Emission Vehicle (ZEV) charging stations as well as bike- and car-share options are considerations.

We encourage the applicant to incorporate design features and site proximities that foster walking and bicycling, expanded public transit options, accessibility for children, elderly, and persons with disabilities. Transit synchronization considerations can make travel times competitive with the automobile, such as present and future connectivity to Amtrak and California High Speed Rail services.

Please continue to keep us informed of this project and any future developments that could potentially affect State transportation facilities. Should you have any questions regarding this letter, please contact Bo Wu at (916)-651-8197 or <u>bo.wu@dot.ca.gov</u>.

Sincerely,

1-tion Bushing

CHRISTIAN BUSHONG Branch Chief, Local Development-Intergovernmental Review Headquarters

"Provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability" S1-1 cont

S1-2

Mr. Sheridan, San Joaquin Regional Rail Commission May 29, 2018 Page 3

c: State Clearinghouse

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"Provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability"



Matt Hertel <aceextension.south@gmail.com>

# Comments ACE Extension Lathrop to Ceres\_Merced Project 1 message

 Miller, Laura@SLC <Laura.Miller@slc.ca.gov>
 Tue, May 29, 2018 at 2:43 PM

 To: "ACEextension.south@gmail.com" <ACEextension.south@gmail.com>

 Cc: "state.clearinghouse@opr.ca.gov" <state.clearinghouse@opr.ca.gov>, "Tutov, Dobri@SLC"

 <Dobri.Tutov@slc.ca.gov>, "Garrett, Jamie@SLC" <Jamie.Garrett@slc.ca.gov>, "Borack,

 Alexandra@SLC" <Alexandra.Borack@slc.ca.gov>

Good Afternoon Mr. Sheridan -

Please find attached our department's comment letter on the ACE Extension Lathrop to Ceres/Merced Project (EIR). Feel free to contact me if you have any questions. An original copy will follow via U.S. Mail.

SCH # 2018012014

Thank you,

Laura Miller

CA State Lands Commission

Division of Environmental Planning and Management

916-574-1911

Comment Letter ACE Extension Lathrop to Ceres\_Merced Project.pdf 2629K

#### STATE OF CALIFORNIA

EDMUND G. BROWN JR., Governor

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JENNIFER LUCCHESI, Executive Officer (916) 574-1800 Fax (916) 574-1810 California Relay Service TDD Phone 1-800-735-2929 from Voice Phone 1-800-735-2922

File Ref: SCH #2018012014

Contact Phone: (916) 574-1890 Contact FAX: (916) 574-1885

May 29, 2018

Kevin Sheridan San Joaquin Regional Rail Commission 949 East Channel Street Stockton, CA 95202

VIA REGULAR & ELECTRONIC MAIL (ACEextension.south@gmail.com)

# Subject: Draft Environmental Impact Report (EIR) for Altamont Corridor Express (ACE) Extension Lathrop to Ceres/Merced Project, San Joaquin, Stanislaus, and Merced Counties

Dear Mr. Sheridan:

The California State Lands Commission (Commission) staff has reviewed the Draft EIR for the ACE Extension Lathrop to Ceres/Merced Project (Project) prepared by the San Joaquin Regional Rail Commission (SJRRC). The SJRRC, as the public agency proposing to carry out the Project, is the lead agency under the California Environmental Quality Act (CEQA) (Pub. Resources Code, § 21000 et seq.) The Commission is a trustee agency for projects that could directly or indirectly affect State sovereign land and their accompanying Public Trust resources or uses. Additionally, because the Project involves work on State sovereign land, the Commission will act as a responsible agency. On February 9, 2018, the Commission staff submitted a comment letter on the Notice of Preparation (NOP) for the EIR (see attached), requesting consultation on the CEQA document pursuant to Public Resources Code, section 21153, subdivision (a), and State CEQA Guidelines, section 15086, subdivisions (a)(1) and (2). SJRRC staff did not consult or coordinate with Commission staff before releasing the Draft EIR for public review.

### Commission Jurisdiction and Public Trust Lands

For a review of the Commission's jurisdiction and management authority, please see the NOP comment letter dated February 9, 2018. As noted in the Draft EIR, the bridge crossings over the Stanislaus River, Tuolumne River, and Merced River include Stateowned sovereign land, and a lease and formal authorization will be required from the Commission for the portions of the Project encroaching on State sovereign land. S2-1

# Project Description

SJRRC proposes to implement a suite of improvements to the regional rail system to improve passenger service in the San Joaquin Valley, reduce greenhouse gas and air emissions from automobiles, and support transportation planning goals. From the Project Description, Commission staff understands that the Draft EIR includes both project-level and programmatic analysis. Improvements analyzed at a program level of review, would be reviewed subsequently at a Project level. The following components have potential to affect State sovereign land.

- <u>Project-Level Analysis (Phase I): Ceres Extension Alignment</u>: New track connections and bridge crossings over the Stanislaus River and Tuolumne River between Lathrop and Ceres
- Programmatic Analysis (Phase II): Merced Extension Alignment: Expand rail service to Merced with new tracks, including a new bridge crossing over the Merced River

The Draft EIR identifies the Environmentally Superior Alternative as a combination of different alternatives for Phase I and II improvements. The Environmentally Superior Alternative does not alter any of the Project activity impacts occurring under the Commission's jurisdiction.

# Environmental Review

Commission staff requests that the SJRRC consider the following comments on the Draft EIR and the attached NOP comment letter, which are incorporated by reference below, to ensure impacts to State sovereign land are adequately analyzed to support Commission action on the lease application. Unless specified, all comments apply to the bridge crossing activities for the Stanislaus, Tuolumne, and Merced Rivers.

# **General Comments**

 <u>Project Description</u>: The Project includes three new single-track concrete bridges that would require two to three supporting piles placed within the Stanislaus, Tuolumne, and Merced Rivers, all within the Commission's jurisdiction. The bent Hpiles would be driven into reinforced concrete cast-in-drill-hole pile shafts.

The Project Description lacks a detailed explanation of the in-water work for the bridge crossings, requested in Commission staff's NOP comments. For example, all three bridge crossings will have 100-foot spans between the piles, shown in the 15 percent preliminary engineering drawings<sup>1</sup> and in Table 2-3. However, the Draft EIR does not clarify whether a 100-foot span is considered a "longer span" that will require a temporary work trestle, which would increase impacts. The Draft EIR also doesn't evaluate the Project's in-water construction impacts with the trestle (the more conservative scenario). In addition, other activities associated with pile driving in the rivers are only briefly mentioned; it is not until page 4.4-47 (Chapter 4.4, Biological Resources) where coffer dams and other dewatering activities are first

S2-1 cont

<sup>&</sup>lt;sup>1</sup> Appendix C-10, p. 4 for Stanislaus River Crossing. Appendix C-10, p. 5 for Tuolumne River Crossing.

Kevin Sheridan

discussed. The Final EIR Project Description should also include the details found in Mitigation Measure (MM) BIO-3.2 regarding the number of strikes per day for pile driving, the overall period, and how that period is broken down both over a calendar year and over the Project's multi-year construction schedule.

The Project Description in Chapters 2 and 3<sup>2</sup> should describe the in-water activities that will occur, including dewatering activities and any temporary structures placed in the river, to ensure an accurate and consistent Project Description required by State CEQA Guidelines, section 15124, subdivision (c). The Draft EIR has conflicting or absent information regarding the structure and dewatering activity location, footprint, and duration. For example, construction for the bridge crossing would last between 14 and 36 months, depending on in-water work windows, but Table 2-7 shows 26 months for bridge construction. For the environmental impact analysis, the Final EIR should clarify and describe the most conservative construction timetable, especially given the in-water seasonal work restrictions imposed by mitigation measures. For example, MM BIO-3.3 requires river channel work between June 15 and October 15, which would likely result in a more drawn-out construction timeline.

In the absence of an adequate Project Description and detailed impact analysis, the Commission may require subsequent environmental review prior to considering a lease approval for the Project.

 Environmental Footprint: The Project study area associated with a new bridge crossing over the Stanislaus River is not shown in Appendix B-2. There appears to be a gap between pages 4 and 5 of the appendix where the Stanislaus River would be. The Final EIR should edit these figures or add a new figure to clearly indicate the Project study area that is part of the Project Description in Chapter 2 and evaluated in Chapter 4.

### **Biological Resources**

3. <u>Impact Analysis (Phase I)</u>: The Draft EIR shows the acres of habitat potentially impacted by the Project activities and identifies construction impacts to special-status plants as potentially significant but does not explain how the mitigation measures would lower impacts to a less-than-significant level as required by State CEQA Guidelines, section 15126.4, subdivision (a)(1)(B). In addition, the document defers evaluation of impacts to special-status plant species until after Project approval, by including a mitigation measure requiring protocol-level surveys that would determine actual presence of any listed plants (MM BIO-1.1). While preconstruction surveys as mitigation can be appropriate, Commission staff recommends the Final EIR include more detailed baseline information regarding the presence or absence of plant species. The environmental setting and impact analysis should be supported by current surveys of the Project area and review of the California Natural Diversity Database and other information sources.

S2-1 cont

S2-2

S2-3

<sup>&</sup>lt;sup>2</sup> The Project Description for the Merced River bridge crossing is identical, both in type of structures used and in construction equipment/activities, and therefore should have a similar level of detail for the inwater work.

Kevin Sheridan

4. <u>Special-Status Wildlife Mitigation</u>: The Draft EIR discloses the potential presence of special-status species in and around the Stanislaus, Tuolumne, and Merced Rivers and that construction activities could directly impact these species within the Project impact area. The Draft EIR also states that the proposed mitigation measures will reduce all potential impacts to less than significant (e.g., MM BIO-2.6 requires construction work to cease until all appropriate measures are taken regarding giant garter snakes). The Draft EIR, however, does not disclose the results of any consultation with agencies such as the U.S. Fish and Wildlife Service (USFWS) and California Department of Fish and Wildlife (CDFW) as to what types of measures these agencies would recommend. Commission staff recommends that the SJRRC consult with the USFWS and CDFW for direction on compensatory mitigation to better support less than significant impact determinations. The results of that consultation should be included in the Final EIR to support impact determinations and mitigation measures.

In addition, MM BIO-2.5 and MM BIO-2.6 require certain special-status amphibians and reptiles, if found within the Project impact area, to be relocated. The Final EIR should clarify how the handling of listed species will be done in conformance with the Federal and State Endangered Species Act, as applicable, and conservatively analyze the associated impact of these mitigation measures. If the USFWS does not provide comments on the Draft EIR for MM BIO-2.5 and MM BIO 2.6, the SJRRC should contact the USFWS and the Final EIR should document correspondence to confirm that these mitigation measures will not result in adverse environmental impacts. If there are potential adverse impacts, the Final EIR should disclose them pursuant to State CEQA Guidelines section 15126.4, subdivision (a)(1)(D).

5. <u>Special-Status Wildlife Preconstruction Surveys</u>: The mitigation measures to avoid certain wildlife species include preconstruction surveys occurring at varying times (3 days before construction, 7 days before construction, etc.), but other mitigation measures do not include a specified time window. The Final EIR should clarify why each time window was chosen and why there is no specified time for MM BIO-2.7.

Mitigation Measure BIO-2.8 requires construction activities to avoid the bird nesting season to the extent feasible. The nesting season for most species is identified as February 1 through August 31. However, per MM BIO-3.3, construction activities within the river channels can only occur between June 15 and October 15, which overlaps with the avoidance period. Commission staff notes that the work window restriction could create a conflict with MM BIO-2.8, if nests are found (activities designed to establish buffer zones), depending on the acoustic impacts from inwater work and the sensitivity of the species present.

6. <u>Special-Status Fish Species</u>: While the Draft EIR identifies that "noise from pile driving can injure or kill fish if impact hammers are used to drive piles," Commission staff were unable to find any quantitative analysis or information explaining how this conclusion was determined, which would allow for an evaluation of the likelihood and

S2-4

S2-6

cont

S2-7

S2-8

S2-9

degree of injury or kill identified.<sup>3</sup> An underwater acoustic analysis should be included in the Final EIR, identifying a threshold of significance for each fish species by providing the hearing range and onset level for Level A harassment (injury) and Level B harassment (behavioral modification). In addition, the analysis should provide the expected noise level and distance of threshold exceedance calculations for both vibratory and impact pile driving, since both methods may be used to drive the piles into the Stanislaus, Merced, and Tuolumne Rivers.<sup>4</sup> These calculations should also include the result of any proposed noise reduction measures, and include a brief discussion explaining the results. Without this additional analysis and information, it is unclear how MM BiO-3.1 will reduce the potentially significant impact to less than significant. Commission staff notes that the impact analysis appears feasible, because Chapter 4.12, Noise (page 4.12-31), provides the quantitative results for human exposure to pile driving activities.

 Permanent and Temporary Habitat Loss: The Draft EIR provides various measures that mitigate for special-status species' habitat with compensatory mitigation. Mitigation Measure BIO-5.2 includes different mitigation ratios but does not indicate the footprint for permanent versus temporary impacts. The Final EIR should include the estimated acres of permanent and temporary habitat lost.

# **Cultural Resources**

- 8. <u>Submerged Resources</u>: As requested in the Commission staff's NOP comments, the Final EIR should evaluate potential impacts to submerged cultural resources in the Project area. The Commission maintains a shipwrecks database that can assist with this analysis. Commission staff requests that, if not already complete, the SJRRC contact Staff Attorney Jamie Garrett (see contact information below) to obtain shipwrecks data from the database and Commission records for the Project site. The results of this inquiry should be included in the Final EIR. Please note that any submerged archaeological site or submerged historic resource that has remained in state waters for more than 50 years is presumed to be significant. Because of this possibility, please add a mitigation measure requiring that, "In the event cultural resources are discovered during any construction activities in or near the Stanislaus, Tuolumne, and Merced Rivers, Project personnel shall halt all activities in the immediate area and notify both the California State Lands Commission and a qualified archaeologist to determine the appropriate course of action."
- <u>Title to Resources</u>: Please see Commission staff's NOP comment letter (attached). In addition, Commission staff requests that the following statement be included in the EIR's Mitigation and Monitoring Program: "The final disposition of archaeological, historical, and paleontological resources recovered on state lands under the

<sup>&</sup>lt;sup>3</sup> City of Maywood v Los Angeles Unified Sch. Dist. (2012) 208 Cal.App.4th 362, 395. The Final EIR's impact findings could be inadequate if there is no evidence or information in the document showing that the impact was studied.

<sup>&</sup>lt;sup>4</sup> Page 4.12-23 of the Draft EIR (Chapter 4.12, Noise) states that the Project would "avoid the use of impact pile drivers where possible near noise-sensitive areas or use quieter alternatives (e.g., drilled piles) where geological conditions permit."

Kevin Sheridan	Page 6	May 29, 2018	
jurisdiction of the California State La Commission."	ands Commission must be approv	ed by the	S2-9 cont
Hazardous Materials			
10. <u>Hazardous Materials Release Sites</u> release site, identified by GeoTrack construction activities and near the information in the Final EIR explaini construction activities and a potentia identifying any mitigation measures	er, located within the environment Tuolumne River. Please include a ng any nexus between bridge cros al release from this site into the riv	al footprint for dditional ssing	S2-10
Hydrology and Water Quality			
11. <u>Dewatering</u> : While the Draft EIR me 26 (Chapter 4.10, Hydrology), the F dewatering activities, including the a used, duration of the dewatering ac quality or biological resources (parti to divert stream flow around bridge Project Description above.	inal EIR should provide a descript anticipated footprint, materials and tivities, and any associated impac cularly for pipe construction that n	ion of the lequipment t on water nay be needed	S2-11
12. <u>Water Quality Mitigation</u> : Impact HY water quality impacts from construct 1.1 and MM HYD-1.2 to determine a MM HAZ-2.3 and MM HYD-7.1 with Final EIR should include a brief disc appropriately justify the significance	tion. However, the Draft EIR ident a less-than-significant impact, but out explaining how those measure cussion of all applied mitigation me	ifies MM HYD- later includes es help. The	S2-12
13. <u>Mercury/Methylmercury</u> : As noted in Commission's jurisdiction are identi Water Act Section 303(d) list, but no provided regarding the bridge const comments requested an analysis of and identification of a threshold of s While MM HYD-1.2 includes water of Quality Control Board (RWQCB) Se recommends that the SJRRC coord informal communications, information the Project's footprint, and a non-ex- lowered the mercury impact for sim- significant. The results of that coord description of expected outcomes a	fied as impaired for mercury in the o further information, analysis, or o ruction activity impacts. Commiss the possible contaminated sedim ignificance for mercury release (s quality monitoring pursuant to the ection 401 certification, Commission inate with the RWQCB to obtain, on related to the agency's mercury clusive list of actions typically req lar projects or disturbances to les ination should be included in the l	e state's Clean determination is ion staff's NOP ent disturbance ee attached). Regional Water on staff through concerns in uired that have s than Final EIR with a	S2-13
Recreation			
14. <u>Navigation Impediments</u> : The Proje to the existing rail bridge structure in When heavy watercraft traffic is pre	h the Stanislaus, Tuolumne, and M	lerced rivers.	S2-14

holidays, prime fishing seasons, etc.), the in-water piers and any associated protective structures for these bridges can pose permanent navigational obstacles, resulting in constrained navigation. These in-water structures also accumulate large woody debris, sediment, and other materials that get caught in the debris piles, which can also be a hazard for navigation. Periodic maintenance could be required to remove accumulated debris and maintain any protective structures for the bridge piles. The Draft EIR does not include an analysis of these potentially significant permanent navigational impacts. An approach to mitigate these impacts could include removal of other existing derelict structures and navigational hazards in the Project vicinity. Derelict structures could include abandoned pilings, outfall pipelines, piers, floating docks, or artificial debris. This mitigation approach is needed on State public land, given the construction of three new bridges and retention of adjacent freight rail bridges. The SJRRC is encouraged to provide this analysis in the Final EIR, identify the permanent navigational impacts as potentially significant, and consider a mitigation approach.

Thank you for the opportunity to comment on the Draft EIR for the Project. As a responsible and trustee agency, the Commission will need to rely on the Final EIR for the issuance of any new lease as specified above, and therefore, staff requests that you consider these comments prior to certification of the Final EIR. Commission staff will review the certified EIR concurrent with a lease application for this Project. If the EIR does not adequately identify and mitigate potentially significant impacts on State sovereign land, then additional environmental review by Commission staff pursuant to CEQA may be required.

Please send copies of future Project-related documents, including electronic copies of the certified EIR, Mitigation Monitoring and Reporting Program, Notice of Determination, CEQA Findings, and if applicable, Statement of Overriding Considerations when they become available. Please refer questions concerning environmental review to Alexandra Borack, Environmental Scientist, at (916) 574-2399 or via email at <u>alexandra.borack@slc.ca.gov</u>. For questions concerning archaeological or historic resources under Commission jurisdiction, please contact Staff Attorney Jamie Garrett, at (916) 574-0398 or via email at jamie.garrett@slc.ca.gov. For questions concerning Commission leasing jurisdiction, please contact Dobri Tutov, Public Land Management Specialist, at (916) 574-0722 or via email at <u>dobri.tutov@slc.ca.gov</u>.

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cc: Office of Planning and Research D. Tutov, Commission A. Borack, Commission J. Garrett, Commission S2-14 cont

from Voice Phone 1-800-735-2922

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#### STATE OF CALIFORNIA

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Contact Phone: (916) 574-1890 Contact FAX: (916) 574-1885

February 9, 2018

#### File Ref: SCH # 2018012014

San Joaquin Regional Rail Commission 949 East Channel Street Stockton, CA 95202

### SENT VIA EMAIL TO: ACEextension.south@gmail.com

# Subject: Notice of Preparation (NOP) for an Environmental Impact Report (EIR) for the Altamont Commuter Express (ACE) Extension Lathrop to Ceres/Merced Project, San Joaquin, Stanislaus, and Merced Counties

#### Dear Sir or Madam:

The California State Lands Commission (Commission) staff has reviewed the subject NOP for the ACE Extension Lathrop to Ceres/Merced Project (Project) EIR, which is being prepared by the San Joaquin Regional Rail Commission (SJRRC). The SJRRC, as the public agency proposing to carry out the Project, is the lead agency under the California Environmental Quality Act (CEQA) (Pub. Resources Code, § 21000 et seq.). The Commission is a trustee agency for projects that could directly or indirectly affect sovereign land and their accompanying Public Trust resources or uses. Additionally, because the Project involves work on sovereign land, the Commission will act as a responsible agency. Commission staff requests that the SJRRC consult with Commission staff on preparation of the Draft EIR as required by CEQA section 21153, subdivision (a) and State CEQA Guidelines section 15086, subdivisions (a)(1),(2).

# **Commission Jurisdiction and Public Trust Lands**

The Commission has jurisdiction and management authority over all ungranted tidelands, submerged lands, and the beds of navigable lakes and waterways. The Commission also has certain residual and review authority for tidelands and submerged lands legislatively granted in trust to local jurisdictions (Pub. Resources Code, §§ 6009, subd. (c); 6009.1; 6301; 6306). All tidelands and submerged lands, granted or ungranted, as well as navigable lakes and waterways, are subject to the protections of the common law Public Trust Doctrine.

As general background, the State of California acquired sovereign ownership of all tidelands and submerged lands and beds of navigable lakes and waterways upon its

admission to the United States in 1850. The state holds these lands for the benefit of all people of the state for statewide Public Trust purposes, which include but are not limited to waterborne commerce, navigation, fisheries, water-related recreation, habitat preservation, and open space. On tidal waterways, the State's sovereign fee ownership extends landward to the mean high tide line, except for areas of fill or artificial accretion or where the boundary has been fixed by agreement or a court. On navigable non-tidal waterways, including lakes, the state holds fee ownership of the bed of the waterway landward to the ordinary low-water mark (OLWM) and a Public Trust easement landward to the ordinary high-water mark (OHWM), except where the boundary has been fixed by agreement or a court be readily apparent from present day site inspections.

After review of the information contained in the NOP, the bridge crossings over the Stanislaus River, Tuolumne River, and Merced River include State-owned sovereign land. A lease and formal authorization for the use of sovereign land will be required from the Commission for the portions of the Project encroaching on State-owned land. Although the NOP includes a map of existing infrastructure over the San Joaquin River, which also includes State-owned sovereign land, Commission staff understands from the NOP that Project improvements are not specifically proposed on or over the San Joaquin River. Page 4 of the NOP states that, "no improvements are proposed along the existing ACE corridor between Stockton and San Jose."

#### **Project Description**

SJRRC proposes to implement a suite of improvements to modernize the existing ACE rail service to meet the agency's objectives and needs as follows:

- <u>Improve Passenger Service</u>: Reduce travel time, increase service reliability and frequency in the San Joaquin Valley, improve passenger facilities, and extend the reach of ACE rail service to downtown Modesto and Merced
- <u>Reduce Emissions from Automobiles</u>: Provide a mobility alternative to automobiles and lower greenhouse gas (GHG) emissions and improve air quality
- <u>Support Transportation Planning Goals</u>: Further land use and transportation planning goals under Senate Bill 375 and other local, regional, and state sustainability initiatives

From the Project Description, Commission staff understands that the EIR would include both project-level and programmatic analysis. Improvements that are analyzed at a program level of review would be reviewed subsequently at a Project level before they would be approved at a Project level. Components of the Project are discussed with their level of analysis below:

Project-Level Analysis (Phase I)

 <u>New and/or Relocated Stations</u>: Installation of a new or relocated station for the Lathrop/Manteca station, with new stations in Downtown Manteca, Ripon, Modesto, and Ceres

- <u>New Track Connections and Improvements</u>: Track improvements at the existing Lathrop/Manteca Station; a new Oakland-Fresno Subdivision Connection with a new track connection between the Oakland and Fresno Subdivisions; new track and bridge crossings over the Stanislaus River and Tuolumne River between Lathrop and Ceres
- <u>Temporary or Interim Structures</u>: A temporary Ceres Layover Facility to support operations until the extension to Merced is completed, as well as an interim bus bridge between Merced and Ceres
- <u>Increase in Service</u>: The operations to Ceres would include three to four additional trains in the morning and evening from Ceres to Lathrop, which would also run in reverse, with four buses providing connections to Merced

# Programmatic Analysis (Phase II)

- <u>Merced Extension Alignment</u>: Expand rail service to Merced with new tracks, upgrades, and bridges (including over the Merced River), as well as new stations in Turlock, Livingston, Atwater, and Merced
- <u>Increase in Service</u>: The operations to Merced would include three to four additional trains in the morning and evening from Merced to Lathrop, which would also run in reverse

#### Environmental Review

Commission staff requests that the SJRRC consider the following comments when preparing the EIR.

#### General Comments

1. <u>Project Description</u>: A thorough and complete Project Description should be included ' in the EIR to facilitate meaningful environmental review of potential impacts, mitigation measures, and alternatives. The Project Description should be as precise as possible in describing the details of all allowable activities (e.g., types of equipment or methods that may be used, maximum area of impact or volume of sediment removed or disturbed, seasonal work windows, locations for material disposal, etc.), as well as the details of the timing and length of activities. Thorough descriptions of work to occur at river crossings, with specific reference to the OHWM and OLWM will facilitate Commission staff's determination of the extent and locations of its leasing jurisdiction, make for a more robust analysis of the work that may be performed, and minimize the potential for subsequent environmental analysis to be required. Additionally, please ensure that the Project Description and subsequent environmental analysis continue to clearly distinguish between project-level analysis and programmatic analysis (Phase I and II).

With regard to the new Oakland-Fresno Subdivision Connection with a new track connection between the Oakland and Fresno Subdivisions associated with Phase I improvements, Commission staff requests the following additional information to be included in the Draft EIR:

SJRRC

- Notation on the Project location map to illustrate and clarify the location of the new subdivision connection along the Phase I route alignment
- Additional discussion in the Project Description on the location of where new subdivision and/or right-of-way entitlements are needed for Phase I and II improvements
- 2. Programmatic Document: Because the EIR is proposed as both a "programmatic" and a "project-level" document, the Commission expects the Project will be presented as a series of distinct but related sequential activities (i.e., Lathrop to Ceres improvements, then an extension to Merced). The State CEQA Guidelines, section 15168, subdivision (c)(5) states that a program EIR will be most helpful in dealing with subsequent activities if it deals with the effects of the program as specifically and comprehensively as possible. To avoid the improper deferral of mitigation, a common flaw in program-level environmental documents, mitigation measures should either be presented as specific, feasible, enforceable obligations, or should be presented as formulas containing "performance standards which would mitigate the significant effect of the project and which may be accomplished in more than one specified way (State CEQA Guidelines, § 15126.4, subd. (a))." As such, the EIR should make an effort to distinguish what activities, impacts, and mitigation measures are being analyzed in sufficient detail to be covered under the program EIR without additional project specific environmental review, and what activities will trigger the need for additional environmental analysis (see State CEQA Guidelines, § 15168, subd. (c)).

#### **Biological Resources**

- 3. <u>Sensitive Species</u>: The EIR should disclose and analyze all potentially significant effects on sensitive species and habitats in and around the Project area (particularly within affected waterways), including special-status wildlife, fish, and plants, and if appropriate, identify feasible mitigation measures to reduce those impacts. The SJRRC should conduct queries of the California Department of Fish and Wildlife's (CDFW) California Natural Diversity Database and U.S. Fish and Wildlife Service's (USFWS) Special Status Species Database to identify any special-status plant or wildlife species that may occur in the Project area, including aquatic species. The EIR should also include a discussion of consultation with the CDFW and USFWS, including any recommended mitigation measures and potentially required permits identified by these agencies.
- 4. <u>Invasive Species</u>: One of the major stressors in California waterways is introduced species. Therefore, the EIR should consider the Project's potential to encourage the establishment or proliferation of aquatic invasive species (AIS), such as quagga and zebra mussels, or other nonindigenous, invasive species including aquatic and terrestrial plants. For example, construction boats and barges brought in from long stays at distant projects may transport new species to the Project area via hull biofouling, wherein aquatic organisms attach to and accumulate on the hull and other submerged parts of a vessel. If the analysis in the EIR finds potentially significant AIS impacts, possible mitigation could include contracting vessels and

barges from nearby, or requiring contractors to perform a certain degree of hullcleaning. The CDFW's Invasive Species Program could assist with this analysis as well as with the development of appropriate mitigation (information at www.dfg.ca.gov/invasives/).

5. <u>Construction Noise</u>: The Project includes several bridge crossings, which may require pile-driving for support piles in the Stanislaus, Tuolumne, and Merced Rivers. Therefore, the EIR should evaluate noise and vibration impacts on fish, birds, and other affected species (aquatic species in-particular) from construction, restoration, and flood control activities in the water, on levees, and for land-side supporting structures. Barotrauma effects to fish and other aquatic species could occur if the underwater sound pressure levels caused by pile-driving activities exceed known injury thresholds. The EIR should discuss, as applicable, the type of piles and methods proposed for pile installation and analyze the potential for these activities to disturb, injure, or kill sensitive fish (including eggs and larvae) or other organisms. Mitigation measures could include vibratory pile-driving, soft-start operations, bubble curtains, cushioning blocks, and species-specific work windows as defined by CDFW, USFWS, and the National Marine Fisheries Service. Again, staff recommends early consultation with these agencies to minimize the impacts of the Project on sensitive species.

### Climate Change

- 6. <u>GHG Emissions</u>: A GHG emissions analysis consistent with the California Global Warming Solutions Act (Assembly Bill 32) and required by the State CEQA Guidelines should be included in the EIR. This analysis should identify a threshold for significance for GHG emissions, calculate the level of GHGs that will be emitted as a result of construction and ultimate build-out of the Project, determine the significance of the impacts of those emissions, and, if impacts are significant, identify mitigation measures that would reduce them to the extent feasible.
- 7. <u>Effects on Rivers</u>: Because the proposed bridge crossings have potential to be impacted by the effects of climate change on riverine processes, Commission staff requests that the SJRRC include this analysis in the EIR. As stated in *Safeguarding California* (California Natural Resources Agency 2014), climate change is projected to increase the frequency and severity of natural disasters related to flooding, drought, and storms. In rivers, more frequent and powerful storms can result in increased flooding conditions and damage from storm created debris. Conversely, prolonged droughts could dramatically reduce river flow and water levels, leading to loss of public access and navigability. Climate change will further influence riverine areas by changing erosion and sedimentation rates. Flooding and storm flow, as well as runoff, will likely increase scour, decreasing bank stability at a faster rate.

Due to these potential climate change impacts, proposed bridge crossing infrastructure could need reinforcement in the future to withstand higher levels of flood exposure and more frequent storm events. These structures may require more frequent maintenance or replacement to ensure continued function during and after storm seasons or to avoid dislodgement. Please include this analysis in the EIR, and

### SJRRC

please note that this information will be required with a lease application for proposed work on State sovereign land.

#### Cultural Resources

- 8. <u>Submerged Resources</u>: For crossings over navigable waterways, the EIR should evaluate potential impacts to submerged cultural resources in the Project area. The Commission maintains a shipwrecks database that can assist with this analysis. Commission staff requests that the SJRRC contact Staff Attorney Jamie Garrett (see contact information below) to obtain shipwrecks data from the database and Commission records for the Project site. The database includes known and potential vessels located on the State's tide and submerged lands; however, the locations of many shipwrecks remain unknown. Please note that any submerged archaeological site or submerged historic resource that has remained in state waters for more than 50 years is presumed to be significant. Because of this possibility, please add a mitigation measure requiring that in the event cultural resources are discovered during any construction activities, Project personnel shall halt all activities in the immediate area and notify a qualified archaeologist to determine the appropriate course of action.
- 9. <u>Title to Resources</u>: The EIR should also mention that the title to all abandoned shipwrecks, archaeological sites, and historic or cultural resources on or in the tide and submerged lands of California is vested in the state and under the jurisdiction of the California State Lands Commission (Pub. Resources Code, § 6313). Commission staff requests that the SJRRC consult with Staff Attorney Jamie Garrett (see contact information below), should any cultural resources on state lands be discovered during construction of the proposed Project.

### **Recreation**

10. <u>River Access</u>: The EIR should consider the Project's impacts to recreation, navigation, and public access on navigable waterways, in particular the Stanislaus, Tuolumne, and Merced Rivers. Construction and operations of new river crossings for rail lines may disrupt recreational boating activities and public access to navigable rivers. Please assess these impacts in the EIR, and if significant impacts are found, develop mitigation measures to reduce impacts to less than significant.

#### Hydrology and Water Quality

11. <u>Mercury/Methylmercury</u>: Project area waterways have been listed by the Central Valley Regional Water Quality Control Board (CVRWQCB) as being impaired by mercury under the Clean Water Act. Mercury is a sediment-associated pollutant. Activities that disturb sediment and cause turbidity can release mercury and make it available for uptake by fish. Some potential Project activities, such as construction of river crossings, may disturb sediment and contribute to mercury transport in the rivers. The sediment disturbance may release mercury and increase the likelihood of exposure by the public. Please identify a threshold of significance for mercury release, include an estimate of the amount of mercury released by Project-related

activities, determine the significance of the impacts of the release using the threshold, and if the impacts are potentially significant, identify mitigation measures or Project changes that would reduce them to less than significant.

To provide some background, on April 22, 2010 the CVRWQCB identified the Commission as both a state agency that manages open water areas in the Sacramento-San Joaquin Delta Estuary and a nonpoint source discharger of methylmercury (Resolution No. R5-2010-0043), because subsurface lands under the Commission's jurisdiction are impacted by mercury from legacy mining activities dating back to California's Gold Rush. Pursuant to a CVRWQCB Total Maximum Daily Load (TMDL), the CVRWQCB is requiring the Commission to fund studies to identify potential methylmercury control methods in the Delta and to participate in an Exposure Reduction Program. The goal of the studies is to evaluate existing control methods and evaluate options to reduce methylmercury in open waters under the jurisdiction of the Commission. Any action taken that may result in mercury or methylmercury suspension upstream of the Sacramento-San Joaquin Delta Estuary may affect the Commission's efforts to comply with the CVRWQCB TMDL.

Thank you for the opportunity to comment on the NOP for the EIR. As a trustee and responsible agency, Commission staff requests consultation for this Project and to be kept advised of changes to the Project Description and all other important developments. Please send additional information on the Project to the Commission staff listed below as the EIR is being prepared.

Please refer questions concerning environmental review to Alexandra Borack, Environmental Scientist, at (916) 574-2399 or via e-mail at <u>alexandra.borack@slc.ca.gov</u>. For questions concerning archaeological or historic resources under Commission jurisdiction, please contact Staff Attorney Jamie Garrett, at (916) 574-0398 or via e-mail at <u>jamie.garrett@slc.ca.gov</u>. For questions concerning Commission leasing jurisdiction please contact Dobri Tutov, Public Lands Management

Specialist, at (916) 574-0722 or via e-mail at dobri.tutov@slc.ca.gov.

Cy R. Oggins Chief Division of Environmental Planning and Management

cc: Office of Planning and Research D. Tutov, CSLC A. Borack, CSLC J. Garrett, CSLC STATE OF CALIFORNIA - CALIFORNIA NATURAL RESOURCES AGENCY

EDMUND G. BROWN JR., GOVERNOR

**RECE/ED** 

APR 2 3 2018

SJRRC

CENTRAL VALLEY FLOOD PROTECTION BOARD 3310 EI Camino Ave., Ste. 170 SACRAMENTO, CA 95821

April 19, 2018

(916) 574-0609 FAX: (916) 574-0682



Mr. Kevin Sheridan San Joaquin Regional Rail Commission 949 E. Channel Street Stockton, California 95202

Subject: Altamont Corridor Express Lathrop to Ceres/Merced, Draft Environmental Impact Report, SCH No.: 2018012014

Location: Counties of San Joaquin, Stanislaus and Merced

Dear Mr. Sheridan,

Central Valley Flood Protection Board (Board) staff has reviewed the subject document and provides the following comments:

The proposed project is within Bear Creek and the Stanislaus, Tuolumne and Merced Rivers, regulated streams under Board jurisdiction, and may require a Board permit prior to construction.

The Board's jurisdiction covers the entire Central Valley including all tributaries and distributaries of the Sacramento and San Joaquin Rivers, and the Tulare and Buena Vista basins south of the San Joaquin River.

Under authorities granted by California Water Code and Public Resources Code statutes, the Board enforces its Title 23, California Code of Regulations (Title 23) for the construction, maintenance, and protection of adopted plans of flood control, including the federal-State facilities of the State Plan of Flood Control, regulated streams, and designated floodways.

Pursuant to Title 23, Section 6 a Board permit is required prior to working within the Board's jurisdiction for the placement, construction, reconstruction, removal, or abandonment of any landscaping, culvert, bridge, conduit, fence, projection, fill, embankment, building, structure, obstruction, encroachment, excavation, the planting, or removal of vegetation, and any repair or maintenance that involves cutting into the levee.

Permits may also be required to bring existing works that predate permitting into compliance with Title 23, or where it is necessary to establish the conditions normally imposed by

S3-1

Mr. Kevin Sheridan April 19, 2018 Page 2 of 2

permitting. The circumstances include those where responsibility for the works has not been clearly established or ownership and use have been revised.

Other federal (including U.S. Army Corps of Engineers Section 10 and 404 regulatory permits), State and local agency permits may be required and are the applicant's responsibility to obtain.

Board permit applications and Title 23 regulations are available on our website at <u>http://www.cvfpb.ca.gov/</u>. Maps of the Board's jurisdiction are also available from the California Department of Water Resources website at <u>http://gis.bam.water.ca.gov/bam/</u>.

S3-1 cont

Please contact James Herota at (916) 574-0651, or via email at <u>James.Herota@CVFlood.ca.gov</u> if you have any questions.

Sincerely,

Andrea Buckley Environmental Services and Land Management Branch Chief

cc: Office of Planning and Research P.O. Box 3044, Room 113 Sacramento, CA 95812-3044



GOVERNOR'S OFFICE of PLANNING AND RESEARCH



KEN ALEX DIRECTOR

EDMUND G. BROWN JR. GOVERNOR

May 30, 2018

Kevin Sheridan San Joaquin Regional Rail Commission 949 E. Channel Street Stockton, CA 95202

Subject: ACE Extension Lathrop to Ceres/Merced SCH#: 2018012014

Dear Kevin Sheridan:

The State Clearinghouse submitted the above named Draft EIR to selected state agencies for review. On the enclosed Document Details Report please note that the Clearinghouse has listed the state agencies that reviewed your document. The review period closed on May 29, 2018, and the comments from the responding agency (ies) is (are) enclosed. If this comment package is not in order, please notify the State Clearinghouse immediately. Please refer to the project's ten-digit State Clearinghouse number in future correspondence so that we may respond promptly.

Please note that Section 21104(c) of the California Public Resources Code states that:

"A responsible or other public agency shall only make substantive comments regarding those activities involved in a project which are within an area of expertise of the agency or which are required to be carried out or approved by the agency. Those comments shall be supported by specific documentation."

These comments are forwarded for use in preparing your final environmental document. Should you need more information or clarification of the enclosed comments, we recommend that you contact the commenting agency directly.

This letter acknowledges that you have complied with the State Clearinghouse review requirements for draft environmental documents, pursuant to the California Environmental Quality Act. Please contact the State Clearinghouse at (916) 445-0613 if you have any questions regarding the environmental review process.

Sincerely,

50 Miligan Scott Morgan

Director, State Clearinghouse

Enclosures cc: Resources Agency

> 1400 10th Street P.O. Box 3044 Sacramento, California 95812-3044 1-916-322-2318 FAX 1-916-558-3184 www.opr.ca.gov

S4-1

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JUN - 6 2018







**Central Valley Regional Water Quality Control Board** 

21 May 2018

San Joaquin Regional Rail Commission 949 East Channel Street Stockton, CA 95202 CERTIFIED MAIL 91 7199 9991 7036 6990 3957

#### COMMENTS TO REQUEST FOR REVIEW FOR THE DRAFT ENVIRONMENTAL IMPACT REPORT, ACE EXTENSION LATHROP TO CERES/MERCED PROJECT, SCH# 2018012014, SAN JOAQUIN COUNTY

Pursuant to the State Clearinghouse's 13 April 2018 request, the Central Valley Regional Water Quality Control Board (Central Valley Water Board) has reviewed the *Request for Review for the Draft Environment Impact Report* for the ACE Extension Lathrop to Ceres/Merced Project, located in San Joaquin County.

Our agency is delegated with the responsibility of protecting the quality of surface and groundwaters of the state; therefore our comments will address concerns surrounding those issues.

#### I. Regulatory Setting

#### **Basin Plan**

The Central Valley Water Board is required to formulate and adopt Basin Plans for all areas within the Central Valley region under Section 13240 of the Porter-Cologne Water Quality Control Act. Each Basin Plan must contain water quality objectives to ensure the reasonable protection of beneficial uses, as well as a program of implementation for achieving water quality objectives with the Basin Plans. Federal regulations require each state to adopt water quality standards to protect the public health or welfare, enhance the quality of water and serve the purposes of the Clean Water Act. In California, the beneficial uses, water quality objectives, and the Antidegradation Policy are the State's water quality standards are also contained in the National Toxics Rule, 40 CFR Section 131.36, and the California Toxics Rule, 40 CFR Section 131.38.

The Basin Plan is subject to modification as necessary, considering applicable laws, policies, technologies, water quality conditions and priorities. The original Basin Plans were adopted in 1975, and have been updated and revised periodically as required, using Basin Plan amendments. Once the Central Valley Water Board has adopted a Basin Plan amendment in noticed public hearings, it must be approved by the State Water Resources Control Board (State Water Board), Office of Administrative Law (OAL) and in some cases,

KARL E. LONGLEY SCD, P.E., CHAIR | PAMELA C. CREEDON P.E., BCEE, EXECUTIVE OFFICER

11020 Sun Center Drive #200, Rancho Cordova, CA 95670 | www.waterboards.ca.gov/centralvalley

R1-1

the United States Environmental Protection Agency (USEPA). Basin Plan amendments only become effective after they have been approved by the OAL and in some cases, the USEPA. Every three (3) years, a review of the Basin Plan is completed that assesses the appropriateness of existing standards and evaluates and prioritizes Basin Planning issues.

For more information on the Water Quality Control Plan for the Sacramento and San Joaquin River Basins, please visit our website: http://www.waterboards.ca.gov/centralvalley/water\_issues/basin\_plans/.

#### Antidegradation Considerations

All wastewater discharges must comply with the Antidegradation Policy (State Water Board Resolution 68-16) and the Antidegradation Implementation Policy contained in the Basin Plan. The Antidegradation Policy is available on page IV-15.01 at: http://www.waterboards.ca.gov/centralvalleywater\_issues/basin\_plans/sacsjr.pdf

In part it states:

Any discharge of waste to high quality waters must apply best practicable treatment or control not only to prevent a condition of pollution or nuisance from occurring, but also to maintain the highest water quality possible consistent with the maximum benefit to the people of the State.

This information must be presented as an analysis of the impacts and potential impacts of the discharge on water quality, as measured by background concentrations and applicable water quality objectives.

The antidegradation analysis is a mandatory element in the National Pollutant Discharge Elimination System and land discharge Waste Discharge Requirements (WDRs) permitting processes. The environmental review document should evaluate potential impacts to both surface and groundwater quality.

#### II. Permitting Requirements

#### **Construction Storm Water General Permit**

Dischargers whose project disturb one or more acres of soil or where projects disturb less than one acre but are part of a larger common plan of development that in total disturbs one or more acres, are required to obtain coverage under the General Permit for Storm Water Discharges Associated with Construction Activities (Construction General Permit), Construction General Permit Order No. 2009-009-DWQ. Construction activity subject to this permit includes clearing, grading, grubbing, disturbances to the ground, such as stockpiling, or excavation, but does not include regular maintenance activities performed to restore the original line, grade, or capacity of the facility. The Construction General Permit requires the development and implementation of a Storm Water Pollution Prevention Plan

- 2 -

R1-1 cont .

(SWPPP).	
For more information on the Construction General Permit, visit the State Water Resources Control Board website at: http://www.waterboards.ca.gov/water_issues/programs/stormwater/constpermits.shtml.	R1-2 cont
Phase I and II Municipal Separate Storm Sewer System (MS4) Permits <sup>1</sup> The Phase I and II MS4 permits require the Permittees reduce pollutants and runoff flows from new development and redevelopment using Best Management Practices (BMPs) to the maximum extent practicable (MEP). MS4 Permittees have their own development standards, also known as Low Impact Development (LID)/post-construction standards that include a hydromodification component. The MS4 permits also require specific design concepts for LID/post-construction BMPs in the early stages of a project during the entitlement and CEQA process and the development plan review process. For more information on which Phase I MS4 Permit this project applies to, visit the Central Valley Water Board website at: http://www.waterboards.ca.gov/centralvalley/water_issues/storm_water/municipal_permits/. For more information on the Phase II MS4 permit and who it applies to, visit the State Water Resources Control Board at: http://www.waterboards.ca.gov/water_issues/programs/stormwater/phase_ii_municipal.sht ml	R1-3
Industrial Storm Water General Permit	I
Storm water discharges associated with industrial sites must comply with the regulations contained in the Industrial Storm Water General Permit Order No. 2014-0057-DWQ. For more information on the Industrial Storm Water General Permit, visit the Central Valley Water Board website at: http://www.waterboards.ca.gov/centralvalley/water_issues/storm_water/industrial_general_permits/index.shtml.	R1-4
Clean Water Act Section 404 Permit	I
If the project will involve the discharge of dredged or fill material in navigable waters or wetlands, a permit pursuant to Section 404 of the Clean Water Act may be needed from the United States Army Corps of Engineers (USACOE). If a Section 404 permit is required by the USACOE, the Central Valley Water Board will review the permit application to ensure	R1-5

<sup>&</sup>lt;sup>1</sup> Municipal Permits = The Phase I Municipal Separate Storm Water System (MS4) Permit covers medium sized Municipalities (serving between 100,000 and 250,000 people) and large sized municipalities (serving over 250,000 people). The Phase II MS4 provides coverage for small municipalities, including non-traditional Small MS4s, which include military bases, public campuses, prisons and hospitals.

that discharge will not violate water quality standards. If the project requires surface water drainage realignment, the applicant is advised to contact the Department of Fish and Game for information on Streambed Alteration Permit requirements. R1-5 cont If you have any questions regarding the Clean Water Act Section 404 permits, please contact the Regulatory Division of the Sacramento District of USACOE at (916) 557-5250. Clean Water Act Section 401 Permit - Water Quality Certification If an USACOE permit (e.g., Non-Reporting Nationwide Permit, Nationwide Permit, Letter of Permission, Individual Permit, Regional General Permit, Programmatic General Permit), or any other federal permit (e.g., Section 10 of the Rivers and Harbors Act or Section 9 from R1-6 the United States Coast Guard), is required for this project due to the disturbance of waters of the United States (such as streams and wetlands), then a Water Quality Certification must be obtained from the Central Valley Water Board prior to initiation of project activities. There are no waivers for 401 Water Quality Certifications. Waste Discharge Requirements – Discharges to Waters of the State If USACOE determines that only non-jurisdictional waters of the State (i.e., "non-federal" waters of the State) are present in the proposed project area, the proposed project may require a Waste Discharge Requirement (WDR) permit to be issued by Central Valley Water Board. Under the California Porter-Cologne Water Quality Control Act, discharges to R1-7 all waters of the State, including all wetlands and other waters of the State including, but not limited to, isolated wetlands, are subject to State regulation. For more information on the Water Quality Certification and WDR processes, visit the Central Valley Water Board website at: http://www.waterboards.ca.gov/centralvalley/help/business help/permit2.shtml. **Dewatering Permit** If the proposed project includes construction or groundwater dewatering to be discharged to land, the proponent may apply for coverage under State Water Board General Water Quality Order (Low Risk General Order) 2003-0003 or the Central Valley Water Board's Waiver of Report of Waste Discharge and Waste Discharge Requirements (Low Risk Waiver) R5-2013-0145. Small temporary construction dewatering projects are projects that discharge groundwater to land from excavation activities or dewatering of underground R1-8 utility vaults. Dischargers seeking coverage under the General Order or Waiver must file a Notice of Intent with the Central Valley Water Board prior to beginning discharge. For more information regarding the Low Risk General Order and the application process, visit the Central Valley Water Board website at: http://www.waterboards.ca.gov/board\_decisions/adopted\_orders/water\_quality/2003/wqo/w go2003-0003.pdf

- 4 -

http://www.waterboards.ca.gov/centralvalley/board\_decisions/adopted\_orders/waivers/r5-2013-0145\_res.pdf

#### Regulatory Compliance for Commercially Irrigated Agriculture

If the property will be used for commercial irrigated agricultural, the discharger will be required to obtain regulatory coverage under the Irrigated Lands Regulatory Program. There are two options to comply:

- Obtain Coverage Under a Coalition Group. Join the local Coalition Group that supports land owners with the implementation of the Irrigated Lands Regulatory Program. The Coalition Group conducts water quality monitoring and reporting to the Central Valley Water Board on behalf of its growers. The Coalition Groups charge an annual membership fee, which varies by Coalition Group. To find the Coalition Group in your area, visit the Central Valley Water Board's website at: http://www.waterboards.ca.gov/centralvalley/water\_issues/irrigated\_lands/for\_growe rs/apply\_coalition\_group/index.shtml or contact water board staff at (916) 464-4611 or via email at IrrLands@waterboards.ca.gov.
- 2. Obtain Coverage Under the General Waste Discharge Requirements for Individual Growers, General Order R5-2013-0100. Dischargers not participating in a third-party group (Coalition) are regulated individually. Depending on the specific site conditions, growers may be required to monitor runoff from their property, install monitoring wells, and submit a notice of intent, farm plan, and other action plans regarding their actions to comply with their General Order. Yearly costs would include State administrative fees (for example, annual fees for farm sizes from 10-100 acres are currently \$1,084 + \$6.70/Acre); the cost to prepare annual monitoring reports; and water quality monitoring costs. To enroll as an Individual Discharger under the Irrigated Lands Regulatory Program, call the Central Valley Water Board phone line at (916) 464-4611 or e-mail board staff at IrrLands@waterboards.ca.gov.

#### Low or Limited Threat General NPDES Permit

If the proposed project includes construction dewatering and it is necessary to discharge the groundwater to waters of the United States, the proposed project will require coverage under a National Pollutant Discharge Elimination System (NPDES) permit. Dewatering discharges are typically considered a low or limited threat to water quality and may be covered under the General Order for *Dewatering and Other Low Threat Discharges to Surface Waters* (Low Threat General Order) or the General Order for *Limited Threat Discharges of Treated/Untreated Groundwater from Cleanup Sites, Wastewater from Superchlorination Projects, and Other Limited Threat Wastewaters to Surface Water*  R1-9

R1-8 cont

R1-10

21 May 2018

- 5 -

(Limited Threat General Order). A complete application must be submitted to the Central Valley Water Board to obtain coverage under these General NPDES permits.

For more information regarding the Low Threat General Order and the application process, visit the Central Valley Water Board website at: http://www.waterboards.ca.gov/centralvalley/board\_decisions/adopted\_orders/general\_ord

nttp://www.waterboards.ca.gov/centralvalley/board\_decisions/adopted\_orders/general\_ord ers/r5-2013-0074.pdf

For more information regarding the Limited Threat General Order and the application process, visit the Central Valley Water Board website at: http://www.waterboards.ca.gov/centralvalley/board\_decisions/adopted\_orders/general\_ord ers/r5-2013-0073.pdf

#### **NPDES Permit**

If the proposed project discharges waste that could affect the quality of surface waters of the State, other than into a community sewer system, the proposed project will require coverage under a National Pollutant Discharge Elimination System (NPDES) permit. A complete Report of Waste Discharge must be submitted with the Central Valley Water Board to obtain a NPDES Permit.

For more information regarding the NPDES Permit and the application process, visit the Central Valley Water Board website at:

http://www.waterboards.ca.gov/centralvalley/help/business\_help/permit3.shtml

If you have questions regarding these comments, please contact me at (916) 464-4644 or Stephanie.Tadlock@waterboards.ca.gov.

Stophane Ladherk

Stephanie Tadlock Environmental Scientist

cc: State Clearinghouse unit, Governor's Office of Planning and Research, Sacramento

R1-11

R1-10

cont



# Alameda CTC Comment letter

1 message

Carolyn Clevenger <cclevenger@alamedactc.org> Fri, May 25, 2018 at 3:39 PM To: "ACEextension.south@gmail.com" <ACEextension.south@gmail.com> Cc: Tess Lengyel <tlengyel@alamedactc.org>

Attached pls find a comment letter from Alameda CTC on the Draft EIR.

Regards,

Carolyn

AlamedaCTC\_ACE\_Extension\_Comment\_Letter\_Draft\_20180525\_clean.pdf



1111 Broadway, Suite 800, Oakland, CA 94607

• 510,208,7400

#### www.AlamedaCTC.org

**Commission Chair** Supervisor Richard Valle, District 2

**Commission Vice Chair** Mayor Pauline Cutter, City of San Leandro

AC Transit Board President Elsa Ortiz

#### Alameda County

Supervisor Scott Haggerty, District 1 Supervisor Wilma Chan, District 3 Supervisor Nate Miley, District 4 Supervisor Keith Carson, District 5

**BART** Director Rebecca Saltzman

**City of Alameda** Mayor Trish Spencer

**City of Albany** Councilmember Peter Maass

City of Berkeley Mayor Jesse Arreguin

**City of Dublin** Mayor David Haubert

City of Emeryville Mayor John Bauters

City of Fremont Mayor Lily Mei

**City of Hayward** Mayor Barbara Halliday

**City of Livermore** Mayor John Marchand

**City of Newark** Councilmember Luis Freitas

**City of Oakland** Councilmember At-Large Rebecca Kaplan Councilmember Dan Kalb

**City of Piedmont** Vice Mayor Teddy Gray King

City of Pleasanton Mayor Jerry Thorne

**City of Union City** Mayor Carol Dutra-Vernaci

Executive Director Arthur L. Dao May 25, 2018

Mr. Dan Leavitt Manager of Regional Initiatives San Joaquin Regional Rail Commission Attn: ACE Extension Lathrop to Ceres/Merced Draft EIR 949 East Channel Street Stockton, CA 95202

Dear Mr. Leavitt:

Thank you for the opportunity to comment on the Altamont Commuter Express (ACE) Extension, Lathrop to Ceres/Merced Environmental Impact Report (EIR). The San Joaquin Regional Rail Commission should be commended for advancing this major effort and continuing its work to improve rail service and connectivity between the San Joaquin Valley, Alameda County and Santa Clara County.

ACE service is vital to the mobility of Alameda County residents, providing high quality transit service for the residents of the Tri-Valley and the southern part of Alameda County, connecting people to jobs, and reducing congestion on two of the most congested corridors in the region, I-580 and I-680. As the county that connects the Bay Area and much of the Central Valley, the Alameda County Transportation Commission (Alameda CTC) is acutely aware of the transportation challenges facing people traveling between the two regions and the impacts that travel has on the rest of the county's transportation system.

Alameda CTC appreciates seeing the distinct analysis of core capacity impacts, including both capital and operating analysis, in the Draft EIR. By specifically acknowledging these issues, and identifying specific mitigations, ACE is ensuring that both the public and policy makers understand the full potential impacts of the proposed project. Alameda CTC is encouraged to see that funding appears to be available for additional coaches and platform extensions that are critical to ensuring core capacity impacts are proactively addressed. By remaining attentive and proactively addressing core capacity issues, ACE can help to maintain the high quality of service its customers currently enjoy. Alameda CTC will work with ACE to continue to monitor any impacts to the core system with the expansion.

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Mr. Dan Leavitt May 25, 2018 Page 2

Thank you again for the opportunity to comment on the new ACE Extension Draft EIR. Alameda CTC looks forward to continuing to work with ACE to advance transportation improvements benefiting and serving Alameda County and the larger megaregion. Please contact Tess Lengyel, Deputy Executive Director of Planning and Policy, <u>tlengyel@alamedactc.org</u>, if you have any questions.

Sincerely,

des for

ARTHUR L. DAO Executive Director



# Letter to San Joaquin Regional Rail Commission

1 message

 Riley, Stephen <spriley@cityoflivermore.net>
 Tue, May 29, 2018 at 5:00 PM

 To: "ACEextension.south@gmail.com" <ACEextension.south@gmail.com>

 Cc: "Ross, Andy" <aaross@cityoflivermore.net>, "McBride, Ashley"

 <asmcbride@cityoflivermore.net>, "Vinn, Bob" <bgvinn@cityoflivermore.net>, "Stewart, Steve"

 <scstewart@cityoflivermore.net>

Dear San Joaquin Regional Rail Commission staff,

The City of Livermore has provided a comment letter (see attached). Unfortunately, due to the Memorial Day holiday, we were unable to provide our comments to you on Monday, May 28. If you have any questions, please contact me or Associate Planner Andy Ross.

Thank you,

Steve Riley

Stephen Riley

Principal Planner, AICP

Community Development

City of Livermore

(925) 960-4461

www.cityoflivermore.net





May 29, 2018

San Joaquin Regional Rail Commission Attn: ACE Extension Lathrop to Ceres/Merced Draft EIR 949 East Channel Street Stockton, CA 95202 <u>ACEextension.south@gmail.com</u>

RE: ACE Extension Lathrop to Ceres/Merced Draft EIR

Dear San Joaquin Regional Rail Commission:

The City of Livermore (City) appreciates the opportunity to comment on the ACE Extension Draft EIR. The City understands that this extension is a phased improvement proposed by the San Joaquin Regional Rail Commission (SJRRC) to enhance commuter and intercity rail service and to promote greater transit connectivity between the San Joaquin Valley and the San Francisco Bay Area. It is the City's understanding that the primary focus of this EIR is the Phase I and II improvements that will extend ACE service from Lathrop to Ceres/Merced; however, the EIR also analyzes impacts at existing ACE stations in the Bay Area.

There are two ACE transit stations within the City limits located in Downtown Livermore and Vasco Road. Generally, the City supports the intent of the proposed improvements to increase service and frequency, enhance passenger facilities, and reduce travel times. In addition, the City supports relieving congestion on I-580 by providing transportation alternatives. However, the City has concerns with the potential for local impacts associated with platform improvements to existing stations. The Draft EIR states:

"Station platforms at the Pleasanton, Livermore, Vasco Road, Tracy, and Existing Lathrop/Manteca Stations would be lengthened to accommodate the longer train consists on the trunk line. Existing platforms at these stations are approximately 450 feet and would be extended by approximately 550 feet for a total station platform length of 1,000 feet. The extended platforms would accommodate longer ACE trains proposed to be used. These platform extensions functions independently of the ACE Extension and have independent utility. These platform extensions have undergone environmental review and construction is anticipated for 2018. In addition, the Fremont Station platform would be extended, also as an independent project."

The City would like additional information about the proposed station platform improvements. The City supports any opportunity to increase public safety, improve traffic flow, and minimize traffic congestion, but is concerned that the proposed platform

L2-1

ACE Extension Draft EIR May 29, 2018 Page 2 of 2

improvements could result in potential impacts to the local roadway network including traffic and safety impacts. Please clarify these platform extensions' previous environmental review and how these potential impacts were considered and/or evaluated.

The proposed Iron Horse Trail is a Class I paved trail that provides non-motorized travel opportunities with connections to ACE transit stations. In Livermore, the Iron Horse Trail is a proposed six-mile segment that parallels the rail tracks through portions of the City. The largest challenge to realizing the Iron Horse Trail is obtaining right-of-way and/or aerial rights to cross rail track. The City requests that SJRRC contemplate and program Iron Horse Trail connections to station areas as a means to increase ridership, improve access to ACE passenger facilities, and alleviate vehicle trips as part of the platform improvements. If SJRRC requires right-of-way acquisition for platform improvements in Livermore, the City requests that SJRRC consider and include the identified Iron Horse Trail alignment.

If you have any other questions, please feel free to contact me at <a href="mailto:spriley@citvoflivermore.net">spriley@citvoflivermore.net</a> or Andy Ross at <a href="mailto:aaross@citvoflivermore.net">aaross@citvoflivermore.net</a>.

Sincerely,

2 tore Riley

Steve Riley Principal Planner Community Development Department

L2-1 cont

L2-2



# ACE Extension South DEIR Comments -- City of Merced

1 message

 Quintero, Frank <QUINTEROF@cityofmerced.org>
 Fri, May 25, 2018 at 4:05 PM

 To: "ACEExtension.south@gmail.com" <ACEExtension.south@gmail.com>

 Cc: Dan Leavitt <danl@acerail.com>, "Carrigan, Steve" <CarriganS@cityofmerced.org>, "Dietz, Stephanie" <DietzS@cityofmerced.org>, "McBride, Scott" <McBrideS@cityofmerced.org>, "Quintero, Frank" <QUINTEROF@cityofmerced.org>, "Hren, Michael" <HrenM@cityofmerced.org>

Attached for your review and record are the comments from the City of Merced concerning the ACE Extension South DEIR. Should you have any questions regarding the comments, please direct them to Frank Quintero, (209) 385-6826 or **quinterof@cityofmerced.org**.

Respectfully submitted,

Frank Quintero | Director of Economic Development

City of Merced | 678 W. 18th Street | Merced, CA 95340

1-800-723-4788

(209) 385-6827 office

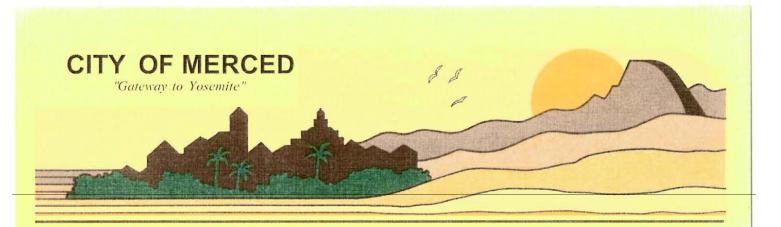
(209) 388-7612 pc fax

quinterof@cityofmerced.org www.cityofmerced.org



Proud member of: TEAMCALIFORNIA





May 21, 2018

San Joaquin Regional Rail Commission Attn: Comment on ACEforward Draft Environmental Impact Report 949 East Channel Street Stockton, CA 95202

#### Dear Sirs/Madams,

The City of Merced is grateful for the opportunity to comment on the Draft Environmental Impact Report (EIR) for the ACEforward project (SCH #2013062059). The City is in support of the proposed extension of ACE Rail service to Merced and looks forward to collaborating with ACE and others to help create and revise the project-level environmental analyses that will form the backbone of the plan to make reliable, efficient ACE Rail service a reality for the San Joaquin Valley.

The City of Merced believes that the Alternative Site for the Layover Facility East of State Route 99 is the superior option. This option, formerly used for food processing, is already an industrial area befitting the character of the proposed facility. In addition, this site would be more integrated into Merced's General Plan as it is on a site the City has identified as Heavy Industrial, whereas the proposed facility located on the west side of State Route 99 would be in an area designated as Residential Reserve. Using the Alternative Site would be more beneficial and in character with the surrounding land uses, both existing and projected, and would therefore more effectively encourage economic development and attraction of L3-1

supporting services to the surrounding Industrial Park. This in turn will develop a stronger network of potential passengers to add ridership as the service matures, creating benefits for both the ACE Rail service and the communities to which it provides transportation.

L3-1 cont

L3-2

The City of Merced also supports the bus terminal for the bus bridge portion of Phase I improvements. This terminal's location at the downtown at the 16<sup>th</sup> Street Transportation Center, as well as the installation of infrastructure supporting electric bus operations is a beneficial improvement and complement to the existing transit services already taking place in Merced at that location.

Sincerely,

Steve Carrigan City Manager City of Merced, California

CC:

Frank Quintero, Director of Economic Development, City of Merced Scott McBride, Director of Development Services, City of Merced

678 West 18th Street · Merced, California 95340



# ACE Extension Lathrop to Ceres/Merced

1 message

Kevin M. Werner <KWerner@cityofripon.org> Mon, May 28, 2018 at 12:42 PM To: "ACEextension.south@gmail.com" <ACEextension.south@gmail.com> Cc: "Kevin M. Werner" <KWerner@cityofripon.org>

Please find attached a comment letter from the City of Ripon.

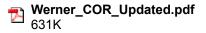
If you have any questions, please feel free to contact Mayor Restuccia, Council member Zuber, or myself.

Thank-you,

Kevin Werner

WARNING: This communication and its inclusions may contain confidential and/or legally privileged information. It is solely for the use of the intended recipients(s). If you are not the intended recipient, please contact the sender and destroy all copies of the communication.

2	attachments
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ATT00001.txt



**City of Ripon** 

259 N. Wilma Avenue • Ripon, California 95366 Phone: 209 599-2108 • Fax: 209 599-2685

May 24, 2018

Steve Dresser, Chair San Joaquin Regional Rail Commission 949 East Channel Street Stockton, CA 95202

MAYOR Michael Restuccia VICE MAYOR Leo Zuber COUNCIL MEMBERS Daniel de Graaf Jacob Parks Dean Uecker CITY ADMINISTRATOR/ CITY ENGINEER Kevin Werner CITY CLERK/FINANCE DIRECTOR Lisa Roos DIRECTOR OF PLANNING & ECONOMIC DEVELOPMENT Ken Zuidervaart DIRECTOR OF PUBLIC WORKS Ted Johnston RECREATION DIRECTOR Kye Stevens

Dear Mr. Dresser,

For the past several years, the City of Ripon has been working with the San Joaquin Regional Rail Commission to locate an Altamont Commuter Express (ACE) train stop in Ripon that would be integrated as part of Ripon's future downtown multi-modal station. I am writing this letter to communicate the important benefits of this future ACE train stop.

The City of Ripon has made a significant investment in alternative modes of transportation for the residents of Ripon and the surrounding region, most recently purchasing 3.25 acres of land for the City's future downtown multi-modal station. This station is planned to include a 7,000 square foot building, off-street parking, a bus loading and staging area, and a rail platform for the ACE train. **Ripon's downtown multi-modal station will be an important part of the region's effort to reduce traffic congestion and improve air quality conditions, but it will also significantly enhance the economic vitality of Ripon's downtown**.

Ripon's downtown consists of six blocks of commercial buildings, including a number of historic buildings that date back to the early 1900's. Like many downtowns throughout America, Ripon's downtown has gone through a transformation over the past several decades. Before, downtowns were the hub of the community where the communities business was conducted. With the advent of regional shopping centers and discount superstores, the traditional downtown's economic foundation has drastically changed. Now, downtowns have evolved to a more quaint businesses environment with businesses that provide a specialized service and attracting customers downtown has become a constant challenge for our downtown businesses.

By adding an ACE train stop at Ripon's downtown multi-modal station, it will provide an economic benefit to our downtown businesses. It's expected that this station would experience 100,000 "on & offs" initially and that is projected to double within 5 years. This volume of potential customers would provide an increase in commercial activity, which would stabilize the downtown businesses and provide a tax base that will generate additional business revenue.

Regionally, the Ripon Multi-Modal Station will serve as a hub for access to alternative modes of transportation, including bike, bus, and train. With convenient access to an ACE station, commuters in Ripon and Stanislaus County will be able to travel to various destinations by train

L4-1

rather than vehicles. This switching of their transportation mode will reduce vehicles on the roadways during traffic peaks, resulting in a reduction in greenhouse gas emissions.

Our City Council has passed a motion supporting an ACE train stop at Ripon's future downtown multi-modal station on January 7, 2014 and looking forward to continuing to work with the San Joaquin Regional Rail Commission on this important project.

Sincerely,

Michael P. Restuccia Mayor



# **DEIR comment letter**

1 message

 Matt Fell <matt.fell@mcagov.org>
 Fri, May 18, 2018 at 11:55 AM

 To: "ACEextension.south@gmail.com" <ACEextension.south@gmail.com>

Attached please find MCAG's comments on the Draft EIR.

Thank you,

Matt Fell

Transportation Planning Manager

Merced County Association of Governments

209-723-3153 ext. 128

matt.fell@mcagov.org





PH: 209.723.3153 FAX: 209.723.0322 www.mcagov.org 369 W. 18<sup>th</sup> Street Merced, CA 95340

L5-1

May 18, 2018

San Joaquin Regional Rail Commission 949 East Channel Street Stockton, CA 95202

#### RE: ACE Extension Lathrop to Ceres/Merced Draft Environmental Impact Report (DEIR)

Chair Dresser and Commissioners,

The Merced County Association of Governments (MCAG) thanks you for the opportunity to comment on the DEIR. We request that as you move forward with the Extension, you continue to work with MCAG, and that you also work with the Transit Joint Powers Authority (TJPA), especially in regard to developing the proposed new bus shuttle service in Merced County.

Page 2-20 says that MCAG is anticipated to operate the bus bridge between Merced and Ceres. However, the operator of a such a service, if not ACE, would more likely be the TJPA or an entity yet to be determined.

The DEIR discusses, in a general way, the parameters and potential impacts of the bus service. We appreciate the preliminary information, and wish to continue the discussion of the service characteristics, including:

- operating entity,
- funding for operations,
- charging infrastructure location and operation,
- bus stop locations and parking capacity,
- Merced Transportation Center (Transpo) operational capacity, and
- fare system

We look forward to working with the Commission on planning related to ACE service and connections in the Merced County region.

Sincerely,

hetent botten

Patrick Pittenger Executive Director

Partnering for Regional Solutions



# ACE Extension Lathrop to Ceres/Merced Comments

1 message

Breanne Ramos <bramos@mercedfarmbureau.org>

Mon, May 28, 2018 at 12:16 PM

To: ACEextension.south@gmail.com Cc: Gino Pedretti <ginoiii@sbcglobal.net>, dietzs@cityofmerced.org, Mark Hendrickson <mhendrickson@co.merced.ca.us>, SMaxey@co.merced.ca.us

Good Afternoon,

On behalf of the Merced County Farm Bureau, please find our comments related to the ACE DEIR Lathrop to Ceres/Merced. We appreciate the opportunity to comment and look forward to speaking should the opportunity arise.

Thanks in advance,

Breanne Ramos Executive Director Merced County Farm Bureau

ACE Ceres-Merced- Merced County Farm Bureau Comments.pdf

# Merced County 🔓 Farm Bureau

May 27, 2018

San Joaquin Regional Rail Commission Attn: ACE Extension Lathrop to Ceres/Merced Project 949 East Channel Street Stockton, CA 95202

Dear San Joaquin Regional Rail Commission,

As an organization that proudly serves as the largest agricultural advocacy group in Merced County, we appreciate the opportunity to comment on the Draft Environmental Impact Report (DEIR) for the ACE Extension Lathrop to Ceres/Merced Project. Merced County Farm Bureau (MCFB) has the privilege of representing 1,000 farming, ranching and dairy families that reside and/or work in Merced County. You may note we have kept a keen eye on this project as it has taken shape. We have provided comments for the public record on both the ACE*forward* and the Notice of Preparation (NOI) for Lathrop to Ceres/Merced.

To begin, we understand from the DEIR *Introduction 1-11*, "the Phase II improvements are more conceptual and evaluated in a more general manner" and will be done at a later date as not to speculate on a project of this size. We understand that additional studies will be completed prior to Phase II build out, but we strongly request a timeline be provided to impacted landowners. This would allow them to determine the best mode of action for the impact to their properties should the project move forward as is.

In the chapter titled *Description of Phase II Improvements 3-14* the reader finds, "The majority of improvements for the Merced Layover Facility would be located outside the UPRR ROW. Specific ROW and easement needs have not been determined and would be identified in future project-level analysis." This would be the area that would house support facilities "such as an administrative office, crew facilities, light vehicle repair facilities, parts storage, fueling facilities, wayside power, and train cleaning function areas." We are concerned for the landowners in this area where production will be impacted. Along with concern for the acreage that will be removed, we also have worries with this type of operation moving into an agricultural area. Far too many times businesses come into an area and complain about the everyday agricultural practices that take place. We want to ensure our growers can remain under the Right to Farm Ordinance that was adopted by our county through the most recent general plan.

On page 4.2-24 of *Agricultural Resources* the reader finds the following, "Permanent conversion of Important Farmlands to nonagricultural use would occur where the Phase II improvements are located on Important Farmland currently being used for agricultural purposes, outside of the existing UPRR

(209) 723-3001 – Fax (209) 722-3814 – 646 South Highway 59 – P.O. Box 1232 – Merced, CA 95341 www.mercedfarmbureau.org 01-1

ROW and within the proposed UPRR ROW." The DEIR has also determined this to be "Less than Significant." The homes and operations on the proposed Merced Layover Facility would be subject to being landlocked, forcing the creation of an easement on a neighboring parcel's property. This can also be cumbersome and costly in addition to the mitigation measures that Merced County would require through their Agricultural Mitigation Ordinance. By land locking agricultural operations, you are also placing employees and families at risk should an unfortunate emergency occur and first responding vehicles be required to enter.

Under *Alternative Uses - Land Use and Planning* found on page 6-13, "The Merced Layover of SR 99 alternative is within the City of Merced and is designated in the General Plan for manufacturing and industrial land uses. This site is in a zoned Heavy Industrial District. A railyard is considered an allowable use within the site designation and zoning, which allows freight terminal use subject to site plan review permit." Following this statement, an individual finds that the Merced Layover Facility is identified within unincorporated Merced County and within the City of Merced's sphere of influence. Under Merced County, the land is identified for agriculture use and the City of Merced has identified it as residential reserve. We strongly encourage you to select the Merced Layover East of 99 alternative route. It is known that the destruction of previously occupied canning facilities would need to be done as well as increasing the distance of the track by 3.9 miles, however 15 acres of productive farm ground would remain in use with this option.

We also have concerns with the construction track work and existing utility lines. Under *Phase II Improvements* on 3-21 the reader comes across the following, "Track construction could conflict with existing utility lines, and these lines would be relocated or protected." We know now California High Speed Rail Authority (CHSRA) also estimated costs only to find final costs to be much higher.

In *Agricultural Resources* section on 4.2-5, the DEIR notes the local jurisdictional general plans. We would suggest revisiting the City of Livingston's General Plan as the document issued in 2008 was not fully approved due to litigation. Livingston is still working from their 1999 General Plan.

Lastly, we find it astonishing that Impact HYD-11, found on 4.10-56, is considered "Less than Significant." Impact HYD-11 states, "Construction of the phase II improvements could substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of local groundwater table level." The DEIR states that this is a potential possibility and could offset the depletion with dewatering effluent. We have high concerns with this as agriculture faces the strictest water quality regulations throughout the state and are surprised that this would be allowed.

We appreciate the opportunity to comment and look forward to discussions as this project proceeds. Should you have any questions and concerns on the above please call our office at your convenience.

Sincerely,

Breanne Ramos Executive Director

01-1

cont



# **DEIR Comments**

1 message

**David Schonbrunn** <David@schonbrunn.org> To: ACE Rail <aceextension.south@gmail.com> Cc: Stacey Mortensen <stacey@acerail.com> Mon, May 28, 2018 at 2:19 PM

Attached please find TRAC's comments on the ACE Extension DEIR. TRANSDEF has joined the comments.

An email indicating receipt would be much appreciated.

Thank you,

--David

David Schonbrunn, Vice-President for Policy Train Riders Association of California (TRAC) P.O. Box 151439 San Rafael, CA 94915-1439

415-370-7250 cell & office

David@Schonbrunn.org www.calrailnews.org







#### 1025 Ninth Street Suite 223 Sacramento CA 95814-3516

(916) 557-1667 www.calrailnews.com trainriders2100@gmail.com

May 28, 2018

By Email to: ACEextension.south @gmail.com

Fresno County David Schonbrunn Vice President-Policy Marin County

Officers

Ronald Jones President

Gordon Osmundson Treasurer Alameda County

Greg Thompson Secretary Sacramento County

**Board Members** 

Art Brown Orange County

Derek Casady San Diego County

John Deeter Sacramento County

Susan MacAdams Los Angeles County

William F. McGeehan III Contra Contra County ACE Extension Lathrop to Ceres/Merced Project San Joaquin Regional Rail Commission 949 East Channel Street Stockton, CA 95202

Re: ACE Extension Lathrop to Ceres/Merced Project DEIR

Dear Ms. Mortensen:

The Train Riders Association of California, TRAC, and the Transportation Solutions Defense and Education Fund, TRANSDEF, vigorously object to the DEIR's dismissive treatment of TRAC's February 9, 2018 NOP Scoping Comments (which are hereby included by reference). The entire point of the NOP process is to gather ideas from outside the project team on what should be studied, both in the terms of impacts and project alternatives. It is therefore improper under CEQA to assert that "Thus, this alternative is beyond the scope of this project" (DEIR, p. 6-24) by unreasonably limiting the scope. It is shocking to see a public agency reject proposals that would enhance its ability to fulfill its mission.

The DEIR's approach to alternatives proposed by TRAC was to reject them out-of-hand, using conclusory language unsupported by substantial evidence. Constructive scoping input from the public should be welcomed, rather than be met with resistance.

02-1

### **Discussion of Rejection Rationales**

**OPS-1:** "This alternative was dismissed because it does not meet the project purpose and need because it would increase service times. Furthermore, this alternative would not avoid or substantially reduce significant environmental impacts of the Proposed Project."

This statement lacks any detail in support of the conclusory statement that splitting trains "would increase service times." That conclusion assumes without evidence the continued failure of American railroads to maintain passenger schedules. That assumption is disproven by the Capitol Corri-

TRAC, active since 1984, is dedicated to a vision of fast, frequent, convenient and clean passenger rail service for California. We promote these European-style transportation options through increased public awareness and legislative action. dor's success in incentivizing its host railroad to achieve higher levels of on-time performance than its California peers.

In Europe, where schedule adherence is much tighter, train splitting is a common operating mode. The undersigned rode the Thalys from Paris to Brussels, and personally observed the train being split in half, with one trainset continuing on to Amsterdam. Operators of that service have obviously determined that the benefits of train splitting (conserving schedule slots and lowering labor costs) outweighed the insignificant increase in travel time for coupling/uncoupling.

The fact that ACE is planning to offer a bus bridge from Ceres to Merced, yet is expending significant resources to environmentally clear a replacement rail extension for it, demonstrates that ACE has determined that transfers are not desirable. Well-established transportation research indicates that avoiding the transfer penalty by offering one-seat rides from both Stockton and Ceres/Merced will result in increased ridership. That would better meet the project purpose and need, attracting more commuters to rail, and avoiding VMT and GHG emissions. As a result of this fair argument, the FEIR is required by CEQA to study OPS-1.

**OPS-2:** "The DMU designs usually consist of lightweight equipment and to date have only been permitted by the FRA in limited circumstances and areas where temporal separation between heavyweight freight trains and lightweight DMUs on the same line is provided or where operations are on separate lines."

The FRA has granted waivers that certify European DMUs as meeting the Alternative Compliance standard, allowing them to be used on freight railroads without temporal separation. Denton, Texas, is the first example. The DEIR's information is surprisingly out-of-date. To the best of our knowledge, a railroad must rely on FRA's certification of equipment and not substitute its judgment for that of the FRA. That makes the UP's purported objection to DMUs irrelevant. These multiple factually incorrect and/or irrelevant statements invalidate the purported finding of infeasibility reached by the DEIR. As a result of this fair argument, the FEIR is required by CEQA to study OPS-2.

Oddly, however, OPS-2 is not the Alternative C proposed by TRAC, which was for DMU service from Stockton that would couple onto the Ceres-originating train at Lathrop. This appears to be an oversight. Please revise OPS-2 to be consistent with our Alternative C proposal.

**OPS-3** in its current form is garbled and nonsensical: "This alternative is similar to the description provided in OPS-2, but this alternative does not change the number of trains in service between Stockton and San Jose. Thus, this alternative is beyond the scope of this project." The only way we are able to decipher the meaning of OPS-3 is to assume that it contains a fatal typo. It appears that "does not change" should have been "increases."

cont

02-1

02-2

This same phrase was repeated in the following, but with a meaning in context that is opposite to the sentence above: "Also, since the project does not change the number of trains between Stockton and San Jose, the use of DMUs on that section is not related to any impacts caused by the Proposed Project and thus this alternative would not lower any potential impacts of the project between Stockton and San Jose."

No matter whether the phrase is incorrect or not, the statement is clearly false. As stated in TRAC's NOP letter,

DMUs offer striking advantages: DMUs accelerate faster, allowing faster travel times. Because a DMU train can be sized to meet the passenger demand, DMUs can make midday service economically feasible. A one-unit off-peak DMU would cost far less to operate than an entire locomotive-hauled train, greatly lowering the subsidy required.

In addition, DMU engines are essentially bus engines. They do not require the highly specialized and very expensive maintenance that locomotives require. On a total-cost-ofownership basis, we believe that DMUs will be less expensive and offer scheduling flexibilities that are not available with current equipment.

O2-3 cont

The following advantages will increase ridership, conferring significant environmental benefits:

- Faster acceleration, reducing travel times
- the ability to run midday trains within existing budgets
- lower maintenance costs free up operating funds to run more trains

By increasing ridership, a DMU alternative furthers the Purpose and Need. It avoids significant impacts commuters would otherwise generate by driving: congestion, criteria pollutants and GHG emissions, resulting in lower overall project impacts.

This alternative seems to have been designed to be rejected, since it is apparently inconsistent with the project scope. It also does not reflect what TRAC proposed as Alternative D.

**OPS-5:** The DEIR is partly mistaken in asserting: "The Proposed Project does not change the amount of ACE service to the Bay Area." Because the DEIR does not identify any constraints on access to weekend slots, there is no physical difference between OPS-5 and the Proposed Project. The fact that the conception of the Proposed Project does not include weekend service points more to a failure of imagination than any limitation cognizable under CEQA. Because, for the same reasons as stated above, adding weekend service will further the Purpose and Need and lower overall project impacts, it was unreasonable and imprudent that the DEIR did not study weekend service.

02-4

Note, however, that the inclusion of Union City in the definition of the alternative appears to be another fatal error, as the Proposed Project does not include elements west of Lathrop. If OPS-5 is read without it containing a reference to Union City, it offers an alternative that must be studied.	O2-4 cont	
<b>OUT-1:</b> The DEIR is superficial, simplistic and fundamentally in error in the following:		
Despite these construction challenges and costs, even if the West Side Line could be put into full freight operations, UPRR will not let ACE use the Fresno Subdivision from Lathrop to Merced without installation of a new second track. The Fresno Subdivision is UPRR's primary freight route in the northern San Joaquin Valley and serves many customers between Lathrop and Merced that cannot be served by the West Side Line and thus UPRR will want to maintain its freight capacity on the Fresno Line. If the West Side Line were to be put back into action, it would be to serve freight from the Bay Area to Fresno and points south and not customers between Fresno and Lathrop. (DEIR, p. 6-25.)		
This analysis ignores the part of TRAC's NOP comment letter dealing with local freight:		
The Fresno Subdivision would primarily be used by passenger trains, with the Railroad retaining the right to serve local freight customers. Under emergency conditions, through-freights could be dispatched as needed, while preserving passenger train priority. This arrangement would be similar to the one negotiated by the CCJPA, wherein passenger trains south of Oakland will exclusively use the Coast Subdivision.	02-5	
TRAC's understanding is that local freights on the Fresno sub are greatly outnumbered by through-freights heading to or from the Bay Area and the Pacific Northwest. If substantial evidence demonstrates this to be accurate, shifting the through-freights to the West Side Line would greatly reduce traffic on the Fresno Subdivision. The existing single track would then be able to serve both the ACE passenger traffic and current local freight traffic. That would eliminate the UPRR objection of inadequate capacity, and set the stage for a negotiation, as TRAC proposed.		
While this alternative might divert <i>some</i> freight traffic from the Fresno Subdivision, it would be cost prohibitive to ACE and would not deliver any meaningful improvements in ACE service from Merced compared to the Proposed Project. Thus, due to financial costs, logistical constraints with UPRR's approach to maintaining freight capacity, and greater environmental impacts than the Proposed Project,		

this alternative was dismissed from further consideration. (DEIR, p. 6-26, emphasis added.)

Based on our presentation above, we assert that the DEIR is factually incorrect in using the word "some" in the statement quoted immediately above. We believe that the alternative would divert <u>most</u> freight traffic from the Fresno Subdivision. This factual issue is determinative of whether a capacity constraint would actually occur on the Fresno Subdivision if through-freights were diverted to the West Side Line. Capacity constraint is what triggers the cost prohibitiveness and logistical constraint justifications for dismissing the alternative from further consideration. Because the DEIR presents no substantial evidence to support its claim of "some," the DEIR has failed to establish a reasonable basis to dismiss the alternative.

The DEIR acknowledges Phase I improvements to be 24 miles of track (DEIR, ES-9), while Phase II would be 34 miles of track. (DEIR, ES-15.) Clearly, this is much less track than the 124 miles identified on p. 6-25. On the other hand, it is much less expensive to upgrade existing track than it is to lay new track. TRAC's NOP letter called for a preliminary study to develop an order-of-magnitude cost estimate for the upgrade:

The track lengths, siding lengths, track condition and roadbed condition of the West Side line would be compared to the proposed Lathrop-to-Merced extension, to establish an order-of-magnitude estimate of the level of financial commitment needed to undertake this alternative. If the financial commitment is roughly similar, the project should be considered financially feasible at the programmatic level of review. The EIR analysis would then evaluate the potential benefits of this Alternative, especially the separation of passenger traffic from most freight traffic, providing justification for further project grants beyond the appropriation already received.

The West Side Line Alternative offers the possibility of a route that is predominantly dedicated to passenger traffic, allowing significantly higher speeds and therefore, significantly higher ridership and avoided emissions. This possibility is so transformative for the entire Central Valley that it offers a rationale to perform the preliminary study, to open the door for the EIR to evaluate the respective benefits of the Proposed Project and the West Side Line Alternative.

If the state offered to pay an amount equivalent to the cost of the Lathrop-Merced extension to bring the West Side Line up to Class 1 standards, UPRR might have reasons of its own to look favorably on the idea and add any needed funds.

## Conclusion

TRAC and TRANSDEF appreciate this opportunity to comment on the DEIR for the ACE Extension Lathrop to Ceres/Merced Project, and hope that our alternatives will result in a better and more effective project.

O2-5 cont Sincerely,

/s/ DAVID SCHONBRUNN

David Schonbrunn, Vice-President for Policy, TRAC President, TRANSDEF



Matt Hertel <aceextension.south@gmail.com>

# **Merced Layover Facility**

1 message

Augie and Joe scoto <scotobros@hotmail.com> Sun, May 27, 2018 at 9:33 AM To: ACE Rail <aceextension.south@gmail.com>, "DietzS@cityofmerced.org" <DietzS@cityofmerced.org>

Ace comment letter - Clean Edits.docx
 16K

Scoto Properties LLC. & Scoto Brothers Farming, Inc. 1861 N. Southern Pacific Ave. Merced, CA 95348 (209)383-5226

San Joaquin Regional Commission ATTN: ACE Extension Lathrop to Ceres/ Merced Project 949 E. Channel Street Stockton, Ca 95202

Dear San Joaquin Regional Rail Commission,

We have been farming and dairying in Merced County for more than four generations, employing over twenty full-time and over 150 seasonal employees. Our operation grows six different commodities that are used mainly for human consumption and cattle feed.

We are very concerned with the placement choice of the proposed Merced Layover Facility for the Merced Extension. According to the Draft Environmental Impact Report (DEIR) for the ACE Lathrop to Ceres/Merced Project, these layover tracks would be located on our property Assessor's Parcel Numbers (APN) 059-330-005, 059-330-028 and 059-030-041. The DEIR states that this project would result in the permanent loss of 15 acres of prime and unique farmland. We believe these numbers are incorrect and the total loss of our prime and unique farmland due to this project would be more than the DEIR states. This project would also land lock our parcels of property by closing entry and all access points to these parcels making them useless and left with no value. Our neighbor to the east of our parcels is not willing to provide an easement for access to our parcels. This is by far a monumental concern but does not include the infrastructure changes that would have to be made to the irrigation and drainage systems. Another concern to us would be the aesthetics, litter, crime and the vagrant potential of this project. One must look no further than the Union Pacific Railyard located in Fresno. Our parcels grow agricultural crops that are picked fresh for the consumer and are mandated by law to be held to the highest food safety standards by keeping fields clean from pests, litter, animals, etc. This would be a difficult task to manage with this project.

Another apprehension and very worrisome problem is access to our other parcels of property APN 059-030-041, 059-030-028, 059-030-029, 059-030-044 and 059-030-039. Emergency services such as fire and ambulance could be curtailed or denied and other services such as mail, garbage and any farm service

P1-1

delivery such as fertilizer, fuel, etc. would be problematic. Southern Pacific Avenue is the only legal and year-round access to our headquarters for employees and management. Should this go through it would almost eliminate our homes.

Another major concern would be the winter runoff drainage from rainfall. According to the DEIR the proposed rail line would be built on the north or east side of the Union Pacific Railroad. This would require filling in the northern and eastern side of the rail bed with soil and roadbed, making this drainage system inoperable. This drainage system was built years ago to drain State Highway 99 and the surrounding communities during a major rain event. Not too many years ago we had two major 100 year floods that inundated the Beachwood community just to the north of this project and our surrounding agricultural properties west of this project. This type of system was placed in this location for a reason. Merced and these county parcels are in a flood zone resulting in excess runoff from rainfall draining into the surrounding creeks via these drain systems. We were shocked to find that the DEIR would eliminate these necessary systems.

We would greatly appreciate a timely response to our concerns on the Merced layover Facility project.

Sincerely,

Joe Scoto and Augie Scoto Scoto Properties LLC. Scoto Brothers Farming, Inc 1861 N. Southern Pacific Ave. Merced, CA 95348 (209)383-5226

CC-Stephanie Dietz, Assistant city Manager, City of Merced

P1-2



# Public Comment Letter #1 for ACE Extension Lathrop to Ceres/Merced

1 message

Terra Land Group <terralandgroup@gmail.com>

Wed, May 16, 2018 at 1:31 PM

To: ACEextension.south@gmail.com Cc: marlo.duncan@stocktongov.com, nguyen@sjcog.org, "Glaser, Jim" <jglaser@sjgov.org>, "Blackmon, Lisa" <lblackmon@ci.manteca.ca.us>, "Butler, Peter" <Peter.Butler2@mail.house.gov>, "Nomellini, Grilli & McDaniel" <ngmplcs@pacbell.net>, pamforbus@sbcglobal.net, albertboyce@gmail.com, Betty Garcia <bgarcia@ssjid.com>, "Duzenski, Mimi" <mduzenski@sjgov.org>, "Toland, Tanis J CIV CESPK CESPD (US)" <Tanis.J.Toland@usace.army.mil>, michael.mierzwa@water.ca.gov, jon.ericson@water.ca.gov, mary.jimenez@water.ca.gov, website\_cco@ci.lathrop.ca.us, leslie.gallagher@cvflood.ca.gov

Good Afternoon,

Attached please find a letter dated May 16, 2018 from Terra Land Group, LLC to the San Joaquin Regional Rail Commission Re: LETTER #1: Draft Environmental Impact Report for the April 2018 Altamont Corridor Express ("ACE") Extension Lathrop to Ceres/Merced project: Public Review and Comment.

Please let us know if you experience any trouble opening the attachment or any of the hyperlinks in the document.

Thank you,

Martin Harris

Terra Land Group

MH/cm

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2018-05-16\_LTR\_SJRRC\_LTR1\_ACEDEIR\_PublicComm.pdf

May 16, 2018

**VIA EMAIL** 

San Joaquin Regional Rail Commission Attn: ACE Extension Lathrop to Ceres/Merced Project 949 East Channel Street Stockton, CA 95202 (ACEextension.south@gmail.com)

# Re: LETTER #1: Draft Environmental Impact Report for the April 2018 Altamont Corridor Express ("ACE") Extension Lathrop to Ceres/Merced project: Public Review and Comment.

Dear Project Team,

My name is Martin Harris and I am an authorized representative for Terra Land Group, LLC ("TLG"). TLG owns several properties located in the Lower San Joaquin River Basin that may benefit or be adversely affected as a result of various local, state, or federal government flood protection improvement actions currently being considered for future implementation.

At this time, TLG is in receipt of the Draft Environmental Impact Report for the April 2018 Altamont Corridor Express ("ACE") Extension Lathrop to Ceres/Merced project ("ACE Extension"). TLG presents the following responses to the ACE Extension with the hope that the public concerns detailed in this letter will be carefully considered by San Joaquin Regional Rail Commission ("SJRRC") staff members and all other authorities involved for the purposes of mitigating any and all flood water drainage and other impacts created to less than significant levels. TLG believes the ACE Extension and the relocated Lathrop/Manteca station alternatives inclusion, when viewed in the context of other closely related past, present, and reasonably foreseeable future projects, may contribute in creating significant cumulative impacts to existing flood water drainage pathways affecting businesses and residents located in the urban and rural areas of Manteca and/or Lathrop. Therefore, our letter will focus mainly on this subject with emphasis on calling attention to the known deficiencies in public utilities/services infrastructure serving the area.

As recent flooding in Houston, Texas has demonstrated, unrestrained development without consideration for flood impacts can have serious consequences. In particular, as more and more development projects continue to move forward, TLG has put forth a regular effort to ensure that local authorities are aware of the need for cumulative environmental review and analysis of all hydrology-related impacts associated with all past, present, and reasonably foreseeable development projects affecting drainage in and along the Lower San Joaquin River Basin and especially the areas affecting the urban and rural areas of Manteca and Lathrop.

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With that in mind, TLG calls your attention to recent information presented in the form of TLG's public review and comments submitted in response to the recently released January 2018 San Joaquin River Basin Lower San Joaquin River, CA FINAL Integrated Interim Feasibility Report/Environmental Impact Statement/Environmental Impact Report ("LSJRFS"). (See Enclosure 1)

For some time now, TLG has sent various copies of our letters to the SJRRC and other authorities expressing public concerns related to development in the floodplain and the need to examine any potential impacts related to San Joaquin River (and tributary) flow deficiencies and the potential for upstream and downstream channel flow stage increases due to drainage patterns affected by grade, levee location, and other environmental considerations. (See Enclosure 1 which contains a list of letters and related items in its own Enclosure 1. This list contains information that TLG believes is important to consider in the decision-making process. Also See Enclosure 2 & 3)

In brief, the enclosures attached describe recently discovered information as detailed in letters from TLG to various agencies that may affect flood control in the Reclamation District No. 17 ("RD 17") and Manteca/Lathrop region. These letters provide supporting evidence while building an overall context and framework for TLG's and other members of the public's concerns regarding any current and/or future development projects that continue to be approved with the potential to affect hydrology in the urban and rural areas of Lathrop and Manteca. The significant details contained in the enclosed letters offer a framework which leads TLG to believe that the complex nature of the potential flood issues involved may be too difficult for the public to adequately understand without the benefit of a comprehensive and cumulative CEQA and NEPA Environmental Review and Analysis.

Further, TLG believes that it is important to mention that the LSJRFS may not fully consider the potential for any and all flood and other hydrology related impacts involved due to RD 17's plan to pursue a phased strategy of levee improvements and other Federally assisted improvements in order to meet California Senate Bill No. 5 ("SB5") requirements. (See page 3-40 of the LSJRFS).

This is especially important when you consider that Page 3-42 of the LSJRFS states:

The identification of Alternative 7a as the NED Plan serves to set the level of Federal participation in the project. Alternative 7a may not fully meet the NFS objective of SB 5 compliance, but in order to expedite authorization, the NFS elected not to pursue a Locally Preferred Plan (LPP) at this time.

**QUESTION:** What non-federal sponsor elected not to pursue a Locally Prefered Plan at this time? Is it in the public's best interest to allow a non-federal sponsor to pursue any flood risk management plan that places emphasis on expediting the process over taking the time to consider and mitigate against the potential for very significant drainage impacts affecting the developing and non-developing urban and rural areas of Manteca and Lathrop?

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Most concerning is TLG's belief that it is the intent of local authorities to assign a project sponsor to seek Section 408 approval from the U.S. Army Corps of Engineers allowing expansion and/or relocation of the RD 17 dry land cross levee system to a location south of the point that Paradise Cut and the San Joaquin River converge. (**See Enclosure 1**)

It is in this way that TLG believes our local authorities intend to move forward with plans to gain the approvals necessary to construct critical but currently unidentified public services infrastructure supporting:

- (i) Storm water drainage,
- (ii) Disinfected and undisenfected effluent wastewater spray field discharge,
- (iii) Groundwater sustainability through percolation and recharges, and
- (iv) Traffic circulation

as well as any and all SB5 flood protection and drainage improvements necessary to accommodate the rapid pace of development affecting both the urban and rural developing and non-developing areas of our local communities.

Why is this important? For some time now, the City of Manteca has continued to approve a high volume of development projects without key stormwater, disinfected and undisinfected wastewater effluent spray field and San Joaquin River discharge, potable water well, and traffic circulation utilities services infrastructure being properly identified, analyzed, and presented for public review in support of protecting the needs of our growing community.

Most recently, both the Manteca City Council and the Manteca Planning Commission appeared to completely ignore potential flood impacts and other environmental concerns (as presented by the public) while proceeding to approve the Terra Ranch and Oakwood Landing - Cerri and Denali subdivision projects while failing to properly allow for and guard against what appears to be very significant stormwater drainage and effluent wastewater spray field discharge deficiencies and associated impacts involved. (See Enclosures 4 & 14 to 17)

Most important, TLG believes that the mitigation measures identified with Impact 3.9-6 as presented on pages 60 through 64 of the "CEQA Findings for the Oakwood Landing - Cerri and Denali Subdivisions" (as included in the May 8, 2018 MPC Meeting Agenda Item 6.3, Attachment 3) do not appear to adequately address how flood and other hydrology related impacts will be mitigated and reduced for any and all residents, businesses, and property owners situated south of the RD 17 cross levee system that may be affected.

Further, the Oakwood Landing - Cerri and Denali subdivision sites appear to be the last available property sites north of and protected by the south Manteca portion of the RD 17 levee that would be suitable to utilize as a stormwater drainage retention basin and a disinfected and/or undisinfected effluent wastewater discharge facility. (See Enclosure 7: 09/06/2017 letter from TLG to the Manteca Community Development Department describing project impacts, suggested mitigation measures, and TLG comments/rebuttals as included on pages 5 to 12 of the letter. Also See Enclosure 8 & 10 to 14)

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P2-2 cont

For this reason, TLG believes that the ACE Extension proposed Phase I Lathrop to Ceres rail system improvements (and related effects) do not include the necessary public utilities infrastructure placement information necessary to clearly identify the potential for flood and other hydrology related impacts when analyzed in conjunction with City of Manteca (and other local authorities and/or non-federal sponsors) plans to utilize a phased approach to modify, expand, and/or extend the existing RD 17 dryland cross levee to achieve 200 year flood protection and compliance in support of the development growth currently occuring and anticipated to continue to occur in the urban and urbanizing areas of Manteca and Lathrop.

For this reason, TLG believes that the environmental conditions affected by the Phase 1 portion of the project should be analyzed at a programmatic level. This analysis should fully evaluate the potential for cumulative flood and other hydrology related impacts in association with any closely related past, present, and reasonably foreseeable projects including any and all SPFC and non-SPFC flood protection levee and San Joaquin River (and associated tributary) channel flow improvement projects affecting drainage in Reclamation District Nos. 17, 2094, 2075, 2085, 2096, and 2064. (See Enclosure 1)

This becomes very important when considering the size and placement of stormwater drainage, conveyance and retention, disinfected and undisinfected wastewater effluent spray field and San Joaquin River discharge, potable water delivery, and traffic circulation infrastructure as well as any SB5 flood protection improvements necessary to accommodate the rapid pace of development affecting both the urban and rural developing and non-developing areas along the South Delta/Lower San Joaquin River Basin. (See Enclosures 1 to 17)

In closing, TLG believes that by allowing for and considering the RD 17 flood protection and other closely related past, present, and reasonably foreseeable public utilities services infrastructure improvements described in this letter, the ACE Extension project members can serve the best interests of the public by promoting a higher level of flood protection for the entire RD 17 drainage system area (ie. this includes RDs 2064, 2075, 2094, & 2096). Most important, this effort shall offer the necessary protections and allow appropriate mitigation measures to be identified and put in place to ensure the reduction of any impacts associated with any and all flood protection alternatives being considered for all developing and non-developing urban and rural properties that may be affected.

Thank you for your consideration and for your attention to these important matters.

Yours truly,

Martin Harris

Terra Land Group, LLC

MH/cm

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#### Enclosures:

Please note: To conserve file size, some of the longer Enclosures below are available for individual download through Dropbox at the provided hyperlinks. Please advise if you require any assistance. All other Enclosures are attached.

- February 26, 2018 letter from TLG to San Joaquin Area Flood Control Agency. Please access this Enclosure by downloading the file from Dropbox at this link: (<u>https://www.dropbox.com/s/8scnhemfwexbkr9/2018-02-26 LTR SJAFCA LSJR%20EIR PublicCommwEncl.pdf?dl=0</u>)
- March 5, 2018 letter from TLG to the San Joaquin County Local Agency Formation Commission. Please access this Enclosure by downloading the file from Dropbox at this link: (https://www.dropbox.com/s/tl0ir7soookd6ze/2018-03-05 LTR\_SJAFCA\_Letter2.pdf?dl=0)
- 3. San Joaquin County Local Agency Formation Commission Reclamation District Municipal Service Review Administrative Draft, Page 26-9
- March 8, 2018 letter from TLG to the San Joaquin Area Flood Control Agency (<u>https://www.dropbox.com/s/wt0bmm77jxi39zd/2018-03-08 LTR SJAFCA LTR3 LSJRFS MHjr stam ped.pdf?dl=0</u>)
- 5. March 28, 2018 letter from TLG to the San Joaquin Council of Governments (<u>https://www.dropbox.com/s/zh6z7q38g799dky/2018-03-28 LTR SJCOG LTR1 RTPSCS.pdf?dl=0</u>)
- April 24, 2018 letter from TLG to the Central Valley Flood Protection Board (<u>https://www.dropbox.com/s/xue1wpdx4v4zgot/2018-04-24 LTR CVFPB Aglts9C9A9B10A11C.pdf?</u> <u>dl=0</u>)
- 7. September 6, 2017 letter from TLG to the Manteca Community Development Department (https://www.dropbox.com/s/i7caj91itppw0lh/2017-09-06\_LTR\_MCDD\_CerriDenaliProj\_MHcm\_STA MPED.pdf?dl=0)
- September 16, 2016 letter from TLG to the Manteca Community Development Department (<u>https://www.dropbox.com/s/u4jud1veljhy686/2016-09-16 LTR TLG-MH MCCD ReDEIROakwoodLa nding MHjs.pdf?dl=0</u>)
- 9. May 7, 2018 letter from TLG to the South San Joaquin Irrigation District (<u>https://www.dropbox.com/s/wjelcf0sp5zx4ez/2018-05-07\_LTR\_SSJID\_Aglt5.pdf?dl=0</u>)
- 10. May 7, 2018 letter from TLG to the Manteca Planning Commission, Letter #1 Re: Agenda Item 6.3 (https://www.dropbox.com/s/0b1swytnj6vdwz9/2018-05-07 LTR MPC LTR1 AgIt6.3.pdf?dl=0)
- 11. May 7, 2018 letter from TLG to the Manteca Planning Commission, Letter #2 Re: Agenda Item 6.3 (<u>https://www.dropbox.com/s/uaqljq31mpdkfsr/2018-05-07 LTR MPC LTR2 Aglt6.3.pdf?dl=0</u>)
- 12. May 7, 2018 letter from W/L Harris Ranches to the Manteca Planning Commission (<u>https://www.dropbox.com/sh/3gycgl1m8vq8xwp/AABYrceMHtRjL16FU3UgWbPGa?dl=0</u>)
- 13. May 7, 2018 letter from TLG to the Manteca Planning Commission, Letter #3 Re: Agenda Item 6.3 (https://www.dropbox.com/s/ps1m4zywvh4vi8x/2018-05-07 LTR MPC LTR3 AgIt6.3.pdf?dl=0)
- 14. May 14, 2018 letter from TLG to Greg Showerman, Manteca Community Development Director for the City of Manteca

(https://www.dropbox.com/s/8oao37q42u7u4e5/2018-05-14 LTR GShowerman TM2.2.pdf?dl=0)

15. May 1, 2018 "Letter #2" from TLG to the Manteca City Council Re: Agenda Item D.2 (<u>https://www.dropbox.com/s/u9etc6o63hz78us/2018-05-01\_LTR\_MCC\_AgltD2.pdf?dl=0</u>)

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	<ul> <li>March 19, 2018 letter from TLG to the Manteca City Council Re: Agenda Item D.4 (<u>https://www.dropbox.com/s/64rgsbxpr60ugrq/2018-03-19 LTR MCC AgItD4.pdf?dl=0</u>)</li> <li>May 14, 2018 letter from TLG to the Manteca City Council (<u>https://www.dropbox.com/s/ks9dyi0cfzmk8j0/2018-05-14 LTR MCC AgItsC1C2C4.pdf?dl=0</u>)</li> </ul>
cc:	San Joaquin Area Flood Control Agency Board Members, % Marlo Duncan, Project Manager (marlo.duncan@stocktongov.com) San Joaquin Council of Governments Board Members, % Diane Nguyen (nguyen@sjcog.org) San Joaquin Local Agency Formation Commission Board Members, % James Glaser (jglaser@sjgov.org) Manteca City Council, % Lisa Blackmon, City Clerk (Iblackmon@ci.manteca.ca.us) Jeff Denham, United States House of Representatives, % Peter Butler (Peter.Butler2@mail.house.gov) Reclamation District No. 17 Board Members, % (ngmplcs@pacbell.net) Reclamation District No. 2075 Board Members, % Pam Forbus (pamforbus@sbcglobal.net) Reclamation District No. 2074 Board Members, % Albert Boyce (albertboyce@gmail.com) South San Joaquin Irrigation District Board of Directors, % Betty Garcia (bgarcia@ssjid.com) San Joaquin County Board of Supervisors, % Mimi Duzenski (mduzenski@sjgov.org) Tanis Toland, U.S. Army Corps of Engineers, Sacramento District (Tanis.J.Toland@usace.army.mil) Michael Mierzwa, Lead Flood Management Planner, California Department of Water Resources (michael.mierzwa@water.ca.gov) Jon Ericson, Hydrology and Flood Operations Officer, California Department of Water Resources (jon.ericson@water.ca.gov) California Department of Water Resources, Attn: Mary Jimenez (mary.jimenez@water.ca.gov) Lathrop City Council, % Teresa Vargas, City Clerk (website_cco@ci.lathrop.ca.us) Central Valley Flood Protection Board, Attn: Leslie Gallagher, Executive Officer (leslie.gallagher@cvflood.ca.gov)

#### San Joaquin LAFCo Reclamation District Municipal Service Review Administrative Draft

#### Senate Bill 5 (SB 5)

Future development and growth of the Delta is substantially affected by Senate Bill (SB) 5 that applies to all areas within the FEMA 500-year and 100-year floodplains. It requires cities and counties to establish substantial evidence that certain development and projects are protected from a 200-year flood event before approval can be granted. The requirements for substantial evidence are provided in the Urban Levee Design Criteria (ULDC) and the Urban Level of Protection (ULOP) documents developed by DWR. This also applies to in-fill development.

The burden of enforcement of the SB 5 requirement is on the land use authorities (cities and counties) not the reclamation districts. Table 26-4 shows the land use authority that has jurisdiction within each of the reviewed districts. Some of the districts, such as RD 17, encompass land within multiple municipalities.

		LAND USE AUTHORITY						
DISTRICT	NAME	STOCKTON	LATHROP	MANTECA	TRACY	COUNTY		
RD 17	Mossdale	1	1	1		1		
RD 348	New Hope					1		
RD 404	Boggs Tract	1				1		
RD 828	Weber Tract	1						
RD 1007	Pico & Nagle				1	1		
RD 1608	Smith Tract	1				1		
RD 1614	Smith Tract	1				1		
RD 2042	Bishop Tract	1						
RD 2058	Pescadero				1	1		
RD 2062	Stewart Tract		1					
RD 2064	River Junction			1		1		
RD 2074	Sargent-Barnhart	1						
RD 2075	Mc Mullin					1		
RD 2085	Kasson			1		1		
RD 2094	Wathal			1		1		
RD 2095	Paradise					1		
RD 2096	Wetherbee			1		1		
RD 2107	Mossdale		1			1		
RD 2115	Shima Tract	1						
RD 2119	Wright-Elmwood	1				1		
RD 2126	Atlas Tract	1						

#### Table 26-4: Reclamation District Associated Land Use Authority



# Public Comment Letter #2 for ACE Extension Lathrop to Ceres/Merced

1 message

Terra Land Group <terralandgroup@gmail.com>

Wed, May 16, 2018 at 3:45 PM

To: ACEextension.south@gmail.com Cc: marlo.duncan@stocktongov.com, nguyen@sjcog.org, "Glaser, Jim" <jglaser@sjgov.org>, "Blackmon, Lisa" <lblackmon@ci.manteca.ca.us>, "Butler, Peter" <Peter.Butler2@mail.house.gov>, "Nomellini, Grilli & McDaniel" <ngmplcs@pacbell.net>, pamforbus@sbcglobal.net, albertboyce@gmail.com, Betty Garcia <bgarcia@ssjid.com>, "Duzenski, Mimi" <mduzenski@sjgov.org>, "Toland, Tanis J CIV CESPK CESPD (US)" <Tanis.J.Toland@usace.army.mil>, michael.mierzwa@water.ca.gov, jon.ericson@water.ca.gov, mary.jimenez@water.ca.gov, website\_cco@ci.lathrop.ca.us, leslie.gallagher@cvflood.ca.gov

Good Afternoon,

Attached please find a letter dated May 16, 2018 from Terra Land Group, LLC to the San Joaquin Regional Rail Commission Re: **LETTER #2**: Draft Environmental Impact Report for the April 2018 Altamont Corridor Express ("ACE") Extension Lathrop to Ceres/Merced project: Public Review and Comment.

Please let us know if you experience any trouble opening the attachment or any of the hyperlinks in the document.

Thank you,

Martin Harris

Terra Land Group

MH/cm

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May 16, 2018

**VIA EMAIL** 

San Joaquin Regional Rail Commission Attn: ACE Extension Lathrop to Ceres/Merced Project 949 East Channel Street Stockton, CA 95202 (ACEextension.south@gmail.com)

# Re: LETTER #2: Draft Environmental Impact Report for the April 2018 Altamont Corridor Express ("ACE") Extension Lathrop to Ceres/Merced project: Public Review and Comment.

Dear Project Team,

My name is Martin Harris and I am an authorized representative for Terra Land Group, LLC ("TLG"). TLG owns several properties located in the Lower San Joaquin River Basin that may benefit or be adversely affected as a result of various local, state, or federal government flood protection improvement actions currently being considered for future implementation.

At this time, TLG is in receipt of the Draft Environmental Impact Report for the April 2018 Altamont Corridor Express ("ACE") Extension Lathrop to Ceres/Merced project ("ACE Extension"). TLG presents the following responses to the ACE Extension with the hope that the public concerns detailed in this letter will be carefully considered by San Joaquin Regional Rail Commission ("SJRRC") staff members and all other authorities involved for the purposes of mitigating any and all flood water drainage and other impacts created to less than significant levels. TLG believes the ACE Extension and the relocated Lathrop/Manteca station alternatives inclusion, when viewed in the context of other closely related past, present, and reasonably foreseeable future projects, may contribute in creating significant cumulative impacts to existing flood water drainage pathways affecting businesses and residents located in the urban and rural areas of Manteca and/or Lathrop. Therefore, our letter will focus mainly on this subject with emphasis on calling attention to San Joaquin River levee structural problems and channel flow deficiencies affecting the South Delta/Lower San Joaquin River Basin.

As recent flooding in Houston, Texas has demonstrated, unrestrained development without consideration for flood impacts can have serious consequences. In particular, as more and more development projects continue to move forward, TLG has put forth a regular effort to ensure that local authorities are aware of the need for cumulative environmental review and analysis of all hydrology-related impacts associated with all past, present, and reasonably foreseeable development projects affecting drainage in and along the Lower San Joaquin River Basin and especially the areas affecting the urban and rural areas of Manteca and Lathrop.

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For some time now, TLG has sent various letters to the SJRRC and other agencies expressing public concern related to development in the floodplain and the need to examine any potential impacts related to San Joaquin River (and tributary) flows and related upstream and downstream channel flow stage increases due to drainage patterns affected by grade, levee location, and other environmental considerations. (See Enclosure 1 for a list of letters and related items sent from TLG to various agencies that TLG believes are important to consider in the Environmental Impact Study and Review process. Also See Enclosure 2: List of Environmental Impact Reports and Feasibility Studies Reviewed by TLG in preparation for writing this letter.)

In January 2018, the San Joaquin Area Flood Control Agency ("SJAFCA") published the San Joaquin River Basin Lower San Joaquin River, CA FINAL Integrated Interim Feasibility Report/Environmental Impact Statement/Environmental Impact Report ("LSJRFS") Through careful study, the letters included in Enclosure 1 can offer significant details relating to what appears to be very significant drainage impacts affecting the Delta South Lower San Joaquin River Drainage system and in particular the affected areas described in the January 2018 LSJRFS ("Study Area") to include the regions detailed below:

- 1. Page ES-1 of the LSJRFS states: The study area also includes the distributary channels of the San Joaquin River in the southernmost reaches of the Delta; Paradise Cut and Old River as far north as Tracy Boulevard, and Middle River as far north as Victoria Canal.
- 2. Page 3-31 of the LSJRFS states: Currently, the levee safety program has defined the levee system that incorporates RD 17 as bounded on the north by Walker Slough, west by the San Joaquin River and south by the Stanislaus River. This includes RD 17, RD 2096, RD 2094, RD 2075 and RD 2064.
- 3. Page 5-17 of the LSJRFS states: **Stanislaus River to Paradise Cut.** The confluence of the San Joaquin and Stanislaus Rivers defines the upstream extent of the hydraulic model used for this study.
- 4. Page ES-2 of the LSJRFS states:

Analysis of the study area is challenged by the presence of three sources of flooding, the Delta Front, Calaveras River and San Joaquin River. This results in commingled floodplains for the North and Central Stockton areas. The distributary nature of the Delta also affects Delta water levels, because high flows from the Sacramento River may "fill" the Delta prior to a peak inflow on the San Joaquin River as occurred in 1997, raising water levels on the Delta front levees.

5. Page 5-27 of the LSJRFS states: 2.1.1 FLOODING Problem: **There is significant risk to public health**, **safety and property in the study area associated with flooding**. The study area is located in the Central Valley of California which has very little topographic relief, resulting in potential flooding of areas far from water courses...

As a result, TLG believes that the Study Area as defined in LSJRFS is consistent with the study area for the ACE Extension as described on page 4.10-10 of the ACE Extension which states:

P2-6

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#### 4.10.3 Environmental Setting

This section describes the environmental setting related to hydrology and water quality by geographic segment for the ACE Extension improvements. For the purposes of this analysis, the study area for hydrology and water quality includes the watersheds, tributaries, and receiving streams that are connected to the environmental footprints for ACE Extension improvements, which may be affected by changes within the improvement footprint. Figure 4.10-1 depicts hydrologic basins and large watersheds and Figure 4.10-2 depicts the groundwater basins and subbasins of the study area for hydrology and water quality.

As a result, TLG believes that the comments and drainage concerns stated in the February 26, 2018 letter from TLG to SJAFCA are applicable and directly apply to the Study Area as may be affected by the proposed ACE Extension. (See Enclosure 3: February 26, 2018 letter. Also see the ACE Extension, Chapter 1: Introduction, page 1-1, lines 3 to 38, and page 1-2, lines 1-2)

#### I. Upstream and Downstream Flood and Other Hydrology-Related Drainage Concerns to Consider as Presented in the February 26, 2018 Public Comment Letter in Response to the LSJRFS

Accordingly, TLG believes that total drainage impacts to the study area appear to be significant and a cause for public concern when you consider the following items as outlined below.

- Representations made by Dante Nomelini of RD 17 to the San Joaquin County Board of Supervisors ("SJCBS") on November 7, 2017 indicate that "The flow in the San Joaquin River is difficult to measure because the gauging station at Vernalis, which is upstream from RD 17, it gets flooded out. In '97 it was inoperable. The estimate was, there was about 110,000 cubic feet per second [unconfirmed] at that point, which is 100-year event. The 200-year event is expected to be much higher than that." (Within Enclosure 3: 02/26/2018 Letter to SJAFCA: See its own Enclosure 3: 04/20/2017 Letter to SJCBS; also see its own Enclosure 4: 11/07/2017 SJCBS Meeting Transcript)
- Dennis Wyatt at the Manteca Bulletin wrote this quote in his March 22, 2016 article titled "Paradise Cut Work Nears:" "Engineers determined expanding the Paradise Cut would reduce flood stages significantly at Mossdale Crossing – 1.8 feet under a 50-year event as well as under a 100-year event such as the 1997 flood that inundated 70 square miles between Manteca and Tracy." (Within Enclosure 3: 02/26/2018 Letter to SJAFCA: See its own Enclosure 5: 03/22/2016 Manteca Bulletin News Article "Paradise Cut work nears"; also see its own Enclosure 6: Map of Paradise Cut with Questions)
- 3. **QUESTION:** Doesn't the formation of a seventy square mile flood water basin pond describe a watershed region without a means to effectively drain?
- 4. **QUESTION:** If the channel flow capacity of the San Joaquin River at the Vernalis monitoring station is limited to approximately 40,000 cubic feet per second ("cfs"), as measured in the channel at the time of the February 20, 2017 levee breach, what flood impacts may be created if flows totalling 110,000 cfs are experienced as forecasted by Dante Nomellini to the San Joaquin County Board of Supervisors

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"SJCBS" on November 7, 2017? (Within Enclosure 3: 02/26/2018 Letter to SJAFCA: See its own Enclosure 4: 11/07/2017 SJCBS Meeting Transcript)

- <u>QUESTION</u>: If channel flow capacity is limited to 37,000 cfs at Mossdale and 15,000 cfs at Paradise Cut (totalling 52,000 cfs), where will San Joaquin River flows of 110,000 cfs (as forecasted by Dante Nomellini to the SJCBS on November 7, 2017) be drained at the time of a future flood event of magnitude and size forewarned by Mr. Nomellini (110,000 cfs)? Is it time to consider a southern bypass? (Within Enclosure 3: 02/26/2018 Letter to SJAFCA: See its own Enclosure 7: Conceptual Vernalis Bypass Design)
- 6. The LSJRFS states in Appendix F: "Hydraulics," Page 88, that: c. Frequency. The Delta Front raises are unlikely to impact flood frequency. However, improvements to the RD17 tieback levee would impact stages for events more rare than 1% ACE.
- 7. **<u>QUESTION</u>**: If adequate flood drainage channel flows are not allowed for on the San Joaquin River, Old River, and Paradise Cut, both upstream and downstream of the Clifton Court Forebay, where will the next 70 square mile flood water basin form and at what depth will flood waters reach?
- 8. **QUESTION:** Based on past flood history in our area and potential new impacts due to global warming, it appears that both Old River and Paradise Cut flows both upstream and downstream of Clifton Court Forebay may be insufficient in total capacity to handle the drainage flows expected at the time of future flooding. (Within Enclosure 3: 02/26/2018 Letter to SJAFCA: See its own Enclosure 6: Map of Paradise Cut with Questions)
- 9. This becomes more concerning when considering Paradise Cut improvements as compared to certain information provided in the LSJRFS which calls attention to an "observed decrease in efficiency as the project size increases is consistent with the hydraulic limitations presented by the downstream stage boundary being within the tidal region of the Delta." For the original text, see the LSJRFS Page 3-6; also see Page 88 of Appendix F: "Hydraulics," as quoted above in Item # 6. (Within Enclosure 3: 02/26/2018 Letter to SJAFCA: See its own Enclosure 6: Annotated Map of Paradise Cut and Walthall Slough Maps; also see its own Enclosure 8: 04/22/2014 Letter from Mike Babitzke to Diane Nguyen, specifically pages 2 & 3: "Flooding" section)
- 10. **QUESTION:** Is that why the U.S. Army Corps of Engineers ("USACE") determined that the Paradise Cut Bypass alternative would not be carried forward, as it is not cost-effective and brings about concerns regarding downstream impacts of widening the bypass? (See LSJRFS Page 3-6 and Pages 87 to 90 of Appendix F: "Hydraulics")
- 11. **QUESTION:** If the bypass is not widened to offset increased flood impacts associated with RD 17 (b) alternatives being considered, what mitigation measures will be created to reduce stage increases for events more rare than 1% ACE to less than significant levels?

5151 E. ALMONDWOOD DRIVE MANTECA, CA 95337

- 12. Most concerning is the conflicting position taken by the state Department of Water Resources in the March 2017 Basin-Wide Feasibility Study San Joaquin Basin Draft ("BWFS") which describes the State Recommended Plan to expand Paradise Cut in accordance with Option M-Ag. (See BWFS Page 7-6)
- 13. **QUESTION:** What mitigation or other action measures can our federal, state, and local government authorities take to ensure the safe and effective drainage of flood and other forms of drainage water that, if not accommodated for, could result in the formation of retention basin(s) with the potential to reach or exceed the 70 square miles (44,800 acres) inundated between Manteca and Tracy at the time of the 1997 flood?
- 14. This is especially concerning when considering channel flow deficiencies affecting the San Joaquin River (and associated tributaries) in and along the Delta Front-Lower San Joaquin River Basin. Most concerning is Paradise Cut's inability to handle large volumes of water anticipated to be generated at the time of future flooding without causing stage increases downstream. This is important when considering that Page 4-8 of the BWFS indicates that increased Paradise Cut bypass flows may cause stage increases along Old River and Grant Line Canal. (Within Enclosure 3: 02/26/2018 Letter to SJAFCA: See its own Enclosure 6: Annotated Map of Paradise Cut and Walthall Slough Maps)
- 15. **QUESTION:** In relation to managing drainage flows throughout the system, how many drainage flow choke points or other channel restrictions or blockages exist along the San Joaquin River and associated downstream tributaries in any areas affecting flood water drainage flows through the Lower San Joaquin River Basin? (**Within Enclosure 3: 02/26/2018 Letter to SJAFCA:** See its own Enclosure 6: Annotated Map of Paradise Cut and Walthall Slough Maps)
- 16. QUESTION: If safe and unimpeded drainage flows through the Lower San Joaquin River Basin are not achieved, what potential impacts may be created affecting the entire Lower San Joaquin River Basin system for all San Joaquin River, Old River, Middle River, Turtle Beach, Walthall Slough, and Paradise Cut river and/or tributary locations situated both upstream and downstream of the point that Paradise Cut and the San Joaquin River converge? What stage increases will be created in the rural areas south of the new RD 17 alternative (b) tie back levee? (See the LSJRFS, Page 88 of Appendix F: "Hydraulics," as quoted above in Item #6)
- 17. **QUESTION:** Will stage increases along Old River and Grant Line Canal impede flows and cause flood water to back up and affect San Joaquin River and Old River channel flow elevations as those rivers run in, along, and through the City of Lathrop?
- 18. **<u>QUESTION</u>**: What impacts could be created for either 100-year or 200-year flood events?
- 19. **QUESTION:** Will flood risk management improvement actions lead to the need to install control structures in and along Paradise Cut to limit Paradise Cut channel flows in a manner that limits stage increases downstream?

5151 E. ALMONDWOOD DRIVE MANTECA, CA 95337

- 20. QUESTION: If control structures are installed along Paradise Cut that result in blocking and/or impeding Paradise Cut channel flows in a way that causes flood water to back up and pond, isn't it likely that the area between the Lathrop to Tracy Union Pacific Railroad track systems may be affected? (Within Enclosure 3: 02/26/2018 Letter to SJAFCA: See its own Enclosure 9: May 2017 SJRRC DEIR ACEforward Map: Figure ES-5 Tracy to Lathrop Segment. This map depicts rail service crossover tracks both east and west of Paradise Cut that may effectively create a flood water retention basin affecting drainage in the area.)
- 21. **QUESTION:** Wouldn't the ponding of flood water as described in Question #20 result in similar flood risk management improvement actions involving the utilization of gate structures to control flows as those utilized affecting Old Mormon Slough as described on Page 7-7 of the BWFS and Page 4-21 of the LSJRFS?
- 22. **QUESTION:** If gate structures in the Paradise Cut channel and diversion structures along the left bank of Paradise Cut are utilized to limit flood water flows to mitigate stage increases along Old River and Grant Line Canal, what impacts could be created upstream?
- 23. **QUESTION:** What increased flood water elevations could be created in RD 2064, RD 2075, RD 2094, or RD 2096?
- 24. QUESTION: Wouldn't it make sense for our local governing authorities to promote a full and comprehensive flood impact environmental review (as previously requested by the public) to properly identify and evaluate the size and locations of any and all public utilities infrastructure involved prior to receiving public comments to utilize in mitigating impacts to hydrology in the area? (Within Enclosure 3: 02/26/2018 Letter to SJAFCA: See its own Enclosure 10: Three Petitions, Specifically Petition #2: August, 2017)
- 25. In this way, before any consideration is given to any development project with the potential to affect flood and storm drainage flows affecting the Lower San Joaquin River Basin, all channel flow capacity deficiency impacts affecting drainage may be considered in association with all known and yet to be determined spillways, bypasses, or other drainage waterways currently existing or needed. This is especially true when considering certain impact points at Vernalis, Turtle Beach, Middle River, Mossdale, and Old River. The following are descriptions of how drainage flow impacts may affect San Joaquin River (and associated tributary) channel elevations and the ability to flow:
  - a. The San Joaquin River at Vernalis as affected by impacts to the region in association with those presented in prior letters related to potential flood impacts. These prior letters draw attention to the potential for drainage impacts involved and support TLG's claim that channel flow capacity at Vernalis has been reduced from its original capacity significantly. (Within Enclosure 3: 02/26/2018 Letter to SJAFCA: See its own Enclosure 3: 04/20/2017 Letter to SJCBS)

5151 E. ALMONDWOOD DRIVE MANTECA, CA 95337

- b. The San Joaquin River north of Mossdale as affected by what appears to be localized residential housing within the City of Lathrop which is currently existing along the river channel. This housing may limit future flood protection improvement options (such as river channel widening) that may been deemed necessary in accordance with the CVFPP. (Within Enclosure 3: 02/26/2018 Letter to SJAFCA: See its own Enclosure 11: South Lathrop Specific Plan Aerial Figure 2-4)
- c. Old River as affected by anticipated impacts relating to reverse channel flows that may impede the natural flow of the river (and possibly affect salinity levels reaching the South Delta) as identified in pages 3A-28 and 3A-29 of the Bay Delta Conservation Plan California WaterFix Final EIR/EIS (December 2016). (Within Enclosure 3: 02/26/2018 Letter to SJAFCA: See its own Enclosure 6: Annotated Map of Paradise Cut and Walthall Slough Maps)
- d. Old River as affected by negative natural channel flow impacts that may impede natural flow along the Old River channel and may cause an approximate 0.5 foot stage increase along Old River and Grant Line Canal due to increased Paradise Cut bypass flows as indicated on page 4-8 of the March 2017 Draft Basin-Wide Feasibility Study: San Joaquin River Basin ("BWFS-SJR"). (Within Enclosure 3: 02/26/2018 Letter to SJAFCA: See its own Enclosure 6: Annotated Map of Paradise Cut and Walthall Slough Maps)

In preparation for the next series of questions, TLG calls your attention to what appears to be significant discrepancies discovered in the Walthall Slough drainage channel flow patterns when comparing satellite imagery to computer generated images as shown in five Walthall Slough detail maps included within Enclosure 3: 02/26/2018 Letter to SJAFCA, in its own Enclosure 6: Annotated Map of Paradise Cut and Walthall Slough Maps.

The apparent discrepancies in Walthall flow patterns become more concerning when you realize that the Central Valley Flood Protection Plan 2017 Update Draft Technical Memorandum - CVFPP Investment Strategy, August 2017 ("CVFPP August 2017") includes Item 214 in Table B-5: San Joaquin Basin Management Actions Included within the 2017 Refined SSIA Portfolio, which defines a project described as follows:

#### Reclamation District 2094 Improve Dryland Levees

The dryland levee located on the south boundary of RD 2094 is lower and less reliable than the levees along the San Joaquin River and was overtopped in 1997 when RD 2075 flooded. This levee was originally constructed to protect RD 2075 in the event of a failure of a levee downstream (north) on the San Joaquin River. Furthermore, this cross levee is one of only two means of egress during a flood event. This project would improve this levee to protect RD 2094 from flooding in RD 2075, and would improve public safety.

26. <u>QUESTION</u>: Will RD 2094 (south) and/or RD 2075 (north) boundary line levee improvements be performed in a manner that will cut off and divert historic Walthall Slough drainage patterns in a

5151 E. ALMONDWOOD DRIVE MANTECA, CA 95337

manner that will prevent Walthall Slough from draining across the RD 2075/RD 2094 boundary and into RD 2094 before continuing on to Weatherbee Lake?

- 27. QUESTION: With that in mind, TLG would like you to consider that it is commonly believed by farmers in RD 2075 that Walthall Slough in its current form originates along the southern boundary of RD 2075 (at or near the RD 2064 and RD 2075 boundary line) before continuing north through RD 2075 and RD 2094 before discharging into Weatherbee Lake (RD 2096). Therefore, if current Walthall Slough drainage flow patterns are altered in any way that blocks or diverts historic drainage flows and causes Walthall Slough to lose its ability to send drainage water north of the RD 2075/RD 2094 common boundary line before draining into Weatherbee Lake, what flood and other hydrology-related impacts (storm water, irrigation water, etc) may be created? (Within Enclosure 3: 02/26/2018 Letter to SJAFCA: See its own Enclosure 12: 01/27/2018 Letter to RD 2075; also See its own Enclosure 6: Annotated Map of Paradise Cut and Walthall Slough Maps)
- 28. <u>QUESTION</u>: Will apparent changes to Walthall Slough flow patterns result in a new basin (similar to Weatherbee Lake) forming in the northwest corner of RD 2075?
- 29. **QUESTION:** Will apparent changes to Walthall Slough flow patterns affect total elevation drop over what appears to be a shortened length of the Walthall Slough flow channel in a way that may lower the total applied head pressure at the base of the slough as constrained by a possible expanded levee separating RD 2094 from RD 2075?
- 30. **QUESTION:** Will any decrease in elevation drop head pressure at the base of a divided and shortened Walthall Slough diminish the effectiveness and ability of Walthall Slough to drain into the San Joaquin River during periods of normal use and flood events?
- 31. <u>QUESTION</u>: If Walthall Slough is divided and shortened, will transfer pumps be required to convey Walthall Slough drainage water from RD 2075 into the San Joaquin River?
- 32. **<u>QUESTION</u>**: If divided, what increases in sedimentation or seepage are likely to occur?
- 33. QUESTION: If divided, how effectively will RD 2075 and/or RD 2064 be able to drain?
- 34. **<u>QUESTION</u>**: Will urban storm water be drained along any remaining portion of the current drainage waterway currently dependent on and recognized as Walthall Slough? If so, what impacts will be created?
- 35. **QUESTION:** What potential drainage impacts to rural South San Joaquin Irrigation District ("SSJID") and McMullin Irrigation and Drainage District canals serving Reclamation Districts 2064, 2075, 2094, & 2096 currently in use may be created in conjunction with planned non-federal sponsor-supported flood protection and management modifications and other forms of infrastructure being considered? (Within Enclosure 3: 02/26/2018 Letter to SJAFCA: See its own

5151 E. ALMONDWOOD DRIVE MANTECA, CA 95337

Enclosure 12: 01/27/2018 Letter to RD2075; See its own Enclosure 13: 12/12/2017 Letter to MCC; also see its own Enclosure 14: 01/22/2018 Letter to MPC)

- 36. <u>QUESTION</u>: Doesn't the public have a right to know any and all alterations to federal, state, and/or local district flood protection levees and irrigation and drainage canals being considered to fully understand the potential for any and all impacts that may affect them? (Within Enclosure 3: 02/26/2018 Letter to SJAFCA: See its own Enclosure 12: 01/27/2018 Letter to RD2075)
- 37. QUESTION: With all the conflicting information as to where and how City of Manteca storm water collection, retention, drainage, and treated/untreated waste water spray field discharges will be handled, how can anyone fully understand the potential for any and all flood occurrence impacts involved? (Within Enclosure 3: 02/26/2018 Letter to SJAFCA: See its own Enclosure 12: 01/27/2018 Letter to RD2075; See its own Enclosure 13: 12/12/2017 Letter to MCC; See its own Enclosure 14: 01/22/2018 Letter to MPC; See its own Enclosure 15: 02/05/2018 Letter to MCC; See its own Enclosure 16: 02/06/2018 Letter to MCC; also see its own Enclosure 17: 02/07/2018 Letter to SJC LAFCo)
- 38. QUESTION: In the interest of public safety, wouldn't it make sense to reconsider the Large-Scale Cross Valley Canal that would reduce stages along the San Joaquin River (downstream of the Merced River) by conveying flood flows from the San Joaquin River and its tributaries to the San Luis Reservoir afterbay (ie. O'Neal Forebay)? (See BWFS, Page 4-23; also see the 2017 Central Valley Flood Protection Plan Update, Page 2-7)

# II. Floodplain Management and Hydrology-Related Drainage Concerns Associated With the Proposed ACE Extension

To illustrate TLG's concerns and characterize the potential for very significant impacts to be involved, TLG would like the project team to consider the following items as presented below.

- 39. Figures 2-1 and 2-2 of the ACE Extension provide descriptions for both the "Relocated Lathrop/Manteca Station" and the "Existing Lathrop/Manteca Station."
- 40. Pages 4.10-30 of the ACE Extension describe proposed rail system improvements and what appears to be completely different regulatory setting pathways to follow in meeting applicable compliance standards for each of the two Lathrop/Manteca station alternative locations presented due to construction requirements conditioned upon:
  - a. The relocated Lathrop/Manteca station improvements to be located outside the Union Pacific Railroad ("UPRR") Right-of-Way ("ROW"); and
  - b. The existing Lathrop/Manteca station improvements to be located within the UPRR ROW. TLG believes this may be important when you consider that page 4.10-5 of the ACE

5151 E. ALMONDWOOD DRIVE MANTECA, CA 95337

P2-7 cont

Extension appears to indicate that various types of construction activities occurring within the ROW are exempt from certain state and local regulations. 41. Construction requirements for improvements located within or outside of the UPRR ROW appears to gain additional importance when you consider that pages 2-5 and 2-6 of the ACE Extension describe a Relocated Lathrop/Manteca single station scenario that calls for the modification of the existing State Route 120 undercrossing and construction of a new retaining wall that measures 350 P2-8 feet in length and 15 feet in height. cont 42. Further, page ES-10 of the ACE Extension describes a new track connection between the Oakland and Fresno subdivisions in Lathrop. 43. Most concerning, page 4.10-31 states that the Oakland-Fresno subdivision connection would alter existing drainage flows through the construction of a new track connection. 44. This becomes especially concerning upon close examination of Figure 5-2 of the ACE Extension which appears to call for a new track connection extending a considerable distance to the west of P2-9 the relocated Lathrop/Manteca station (See Project Item #8 as identified in Figure 5-2 of the ACE Extension). QUESTION: Will this track connection be located inside or outside the UPRR ROW? 45. This causes TLG to be concerned that new track and/or station improvements are being considered that will place or allow modification of structures within the 100 year hazard areas that may impede or redirect flows or substantially alter drainage courses affecting any or all properties located in the study area. 46. Further, TLG believes that the drainage impacts associated with new track and/or station improvements may be understated when it is realized that the Central Valley Flood Protection Board ("CVFPB") acting under the authority of the 2008 Central Valley Flood Protection Act P2-10 requires encroachment permits from the CVFPB because upgrades to existing tracks, new tracks, and new railroad bridges would be constructed across levees and across floodways under CVFPB jurisdiction. (See pages 4.10-8 and 4.10-9 of the ACE Extension.) **QUESTION:** What difference in drainage impacts will be created if the SJRRC prioritizes ACE

Extension rail track and station improvements to be located and constructed inside the UPRR ROW as compared to alternatives allowing rail track and station improvements to be placed outside the UPRR ROW?

47. <u>QUESTION</u>: If ACE Extension rail track and/or bridge improvements are extended west to or across the San Joaquin River and/or Paradise Cut, what drainage impact mitigation measures will be provided to ensure that flood drainage flows are not impeded or redirected? (See page 4.10-40 of the ACE Extension)

5151 E. ALMONDWOOD DRIVE MANTECA, CA 95337

48. TLG believes this is important when you consider that page 4.10-40 of the ACE Extension includes impact characterizations that state:

Phase I improvements intersect various flood hazard areas including storm-related flooding (100-year flood zones and 200-year flood zones), areas with reduced flood risk due to levees, and dam failure inundation areas. The Phase I improvements are not located near the coast and are therefore not susceptible to coastal flooding hazards, such as tsunamis, extreme high tides, or SLR. The potential for the Phase I improvements to be subject to flooding impacts related to dam or levee failure during operation is very low because regular inspection and maintenance of dams and levees substantially reduces the potential for their failure. Therefore potential impacts of flooding related to dam or levee failure during operation of the Phase I improvements are not discussed further.

- 49. COMMENT: As presented in earlier letters, TLG believes that the San Joaquin River and associated tributary channel flow capacities in the Manteca/Lathrop region are deficient and incapable of handling future flows that are anticipated to occur. For this reason, TLG believes any consideration to perform ACE rail improvements intersecting the flood hazard regions affecting the Study Area should consider any and all potential for future flooding. (Within Enclosure 3: 02/26/2018 Letter to SJAFCA: See its own Enclosure 3: 04/20/2017 Letter to SJCBS; also see its own Enclosure 4: 11/07/2017 SJCBS Transcript)
- 50. Page 4.10-42 of the ACE Extension describes increases in offsite flooding conditions and associated mitigation measures in a form detailed as follows:

If ACE Extension improvements could result in any increase in offsite flooding conditions compared to existing conditions, project designs will be modified to reduce the potential flooding impacts to be equivalent to the existing conditions. Modifications to designs may include the following measures.

- Increasing culvert sizes.
- Installation of cross-drainage facilities to balance the floodplain elevations across new tracks.
- Creating no net fill for improvements within floodplains.
- Modifying bridge designs to reduce the restriction of flood flows through drainage courses.

The detailed hydraulic evaluations will be submitted to the regulatory agencies that have jurisdiction over improvements within drainage courses. For improvements requiring encroachment permits from the CVFPB, the detailed hydraulic evaluations will be submitted to the CVFPB for review and approval.

51. **QUESTION**: Will any of the construction improvements presented in the ACE Extension consider and allow for or result in creating and/or contributing to what appears to be very significant impacts when comparing those ACE Extension improvements with current plans by local authorities and/or non-federal sponsors to utilize a phased approach for the purposes of performing 200 year flood protection modification, expansion, and/or extension to the RD 17 dryland cross levee as it currently exists in south west Manteca. P2-13

P2-12

<sup>5151</sup> E. ALMONDWOOD DRIVE MANTECA, CA 95337

52. With this in mind, page 1-11 of the ACE Extension describes the use of a project EIR as the most common type of EIR and applicable to projects that have been sufficiently developed to a level of certainty that is ready for detailed environmental impact analysis. Apparently the ACE Extension supports a determination that the Lathrop to Ceres extension is defined to a level of certainty to justify a standard environmental impact analysis as provided for in the Phase I portion of the Environmental Review. The ACE Extension has further determined that the Ceres to Merced ACE Extension improvements are more conceptual and must be evaluated in a more general manner.

COMMENT: TLG believes that until all RD 17 levee flood protection infrastructure is clearly identified and presented to the public, Phase I Improvements should be subject to a full cumulative environmental impact analysis with impacts evaluated at a programmatic more conceptual level.

53. COMMENT: This is especially important when you consider that for some time now, the City of Manteca has continued to approve a high volume of development projects without key stormwater, disinfected and undisinfected wastewater effluent spray field and San Joaquin River discharge, potable water well, and traffic circulation public services infrastructure being properly identified, analyzed, and presented for public review in support of protecting the needs of our growing community.

With this in mind, TLG believes that significant uncertainty exists and causes TLG to believe that it is probable that none of the affected members of the public fully understand the potential for what appears to be very significant flood and other hydrology related impacts that may be created in conjunction with the Phase I (project level) and Phase II (programmatic level) rail system improvements and modifications necessary to meet passenger service demand while mitigating and reducing the potential flood impacts to be equivalent to existing conditions. (See page 4.10-42 of the ACE Extension)

54. The ACE Extension includes a list of Phase I and Phase II Impacts:

Page	Impact	
ES-48	Impact	Hyd-3, Hyd-4, Hyd-5
ES-49	Impact	Hyd-6, Hyd-7, Hyd-8
ES-50	Impact	C-Hyd-1
ES-64	Impact	USS-1, USS-2
ES-65	Impact	USS-3, USS-4
ES-66	Impact	C-USS-1

Phase I:

P2-15

P2-16

<sup>5151</sup> E. ALMONDWOOD DRIVE MANTECA, CA 95337

#### Phase II:

Page	Impact	
ES-82	Impact	Hyd-11, Hyd-12, Hyd-13
ES-83	Impact	Hyd-14, Hyd-15, Hyd-16
ES-84	Impact	C-Hyd-1

55. TLG believes that the flood impact mitigation measures identified in the ACE Extension and associated with item 54 (above) may prove inadequate and fall significantly short of the goal to offset any increases in flood impacts created. (See Enclosures 3 and 4)

## III. Cumulative Impacts and Hydrology-Related Drainage Concerns Associated with the Proposed ACE Extension

The following text has been quoted from page 5-1 of the ACE Extension:

The State California Environmental Quality Act (CEQA) Guidelines define a cumulative impact as two or more individual impacts that, when considered together, are considerable or that compound or increase other significant environmental impacts. The incremental impact of a project may be considerable when viewed in the context of other closely related past, present, and reasonably foreseeable future projects. <sup>1</sup> Cumulative impacts can result from individually minor, but collectively 8 significant, projects taking place over a period of time (State CEQA Guidelines 15355).

State CEQA Guidelines Section 15130(b) indicates that an adequate discussion of potential cumulative effects requires consideration of either a list-based approach or a projection-based approach. This environmental impact report (EIR) uses a combination of a project-based/plan-based approach and a list-based approach to determine whether significant cumulative impacts would occur.

- 56. Page 5-3 of the ACE Extension includes table 5-1, "Summary of Cumulative Impact Methodology." Resource issues include Geographic Area of Impact which identifies impact areas limited to the "ACE Extension Corridor, vicinity, and downstream water bodies."
- 57. COMMENT: TLG believes that flood-impacted areas may include Reclamation District Nos. 17, 2094, 2096, 2075, and 2064.

5151 E. ALMONDWOOD DRIVE MANTECA, CA 95337

P2-17 cont

<sup>1</sup> Reasonably foreseeable future projects are defined as projects that have been adopted or have otherwise demonstrated likelihood to occur based on documentation from project sponsors.

58. Page 5-7 of the ACE Extension identifies and defines projects considered in the cumulative analysis and included in the ACE Extension in Table 5-3.	
59. COMMENT: TLG calls your attention to a number of other closely related past, present, and reasonably foreseeable projects affecting hydrology that were identified by TLG in the February 26, 2018 letter from TLG to SJAFCA. (See Enclosure 3) TLG believes that due to the potential for significant impacts to hydrology, those same closely related past, present, and reasonably foreseeable projects should be considered in any ACE Extension cumulative impact study analysis.	P2-18 cont
60. Page 5-45 of the ACE Extension states:	
Cumulative projects could result in changes to existing drainage patterns that may create or contribute excessive runoff that would exceed the capacity of stormwater drainage systems and result in localized flooding. Additionally, cumulative projects could be affected by and contribute to flooding, particularly if close to existing flooding zones. The water quality degradation and contribution to flooding events associated with the ACE Extension and other reasonably foreseeable projects would result in a significant cumulative impact on hydrology and water quality.	P2-19
(See Enclosures 3 and 4)	
61. Page 5-70 of the ACE Extension states: The cumulative demands for water and wastewater generation could result in the need for additional utility infrastructure which may entail the development of additional water supplies or wastewater treatment and distribution infrastructure. ( <b>See Enclosure 4</b> )	
In closing, TLG believes that the public and, quite possibly even our governing officials, have not been adequately informed and do not understand the full potential for irreversible and very significant flood water elevation impacts that affected members of the public could be subjected to as a result of this project in association with other projects that may affect RD 17, RD 2064, RD 2075, RD 2094, RD 2096, and other Reclamation Districts located in the South Delta/Lower San Joaquin River Basin.	
For this reason, TLG believes that the SJRRC Board and ACE Extension project staff can do more in working with Manteca, Lathrop, RD 17, San Joaquin County, and other agencies involved to determine and mitigate for the total amount of cumulative impacts affecting flood water drainage and other impacts to hydrology for all flood hazard impact zones affected.	P2-20
To this end, TLG advises the construction of spillways and bypasses as the most effective structures for mitigating floods in our area.	
Further, TLG urges all agencies involved to promote the dredging of the San Joaquin River and to carefully monitor channel flows on the river to ensure no more water is channeled than the current condition of the	

5151 E. ALMONDWOOD DRIVE MANTECA, CA 95337

river and surrounding flood protection mitigation structures can safely handle.

Thank you for your consideration and for your attention to these important matters.

Yours truly,

Martin Harris Terra Land Group, LLC

MH/cm

Enclosures:

Please note: To conserve file size, some of the longer Enclosures below are available for individual download through Dropbox at the provided hyperlinks. Please advise if you require any assistance. All other Enclosures are attached.

- 1. List of Letters and Items Related to Flood Impacts (with documents provided via Dropbox hyperlinks)
- 2. List of Environmental Impact Reports and Feasibility Studies Reviewed by TLG
- 02/26/2018 letter from TLG to SJAFCA Re: LSJRFS (https://www.dropbox.com/s/8scnhemfwexbkr9/2018-02-26 LTR SJAFCA LSJR%20EIR PublicC omm\_wEncl.pdf?dl=0)
- 05/14/2018 letter from TLG to Greg Showerman, Manteca Community Development Director for the City of Manteca (https://www.dropbox.com/s/80ao37q42u7u4e5/2018-05-14 LTR GShowerman TM2.2.pdf?dl=0

)

cc:

San Joaquin Area Flood Control Agency Board Members, % Marlo Duncan, Project Manager (marlo.duncan@stocktongov.com)

San Joaquin Council of Governments Board Members, % Diane Nguyen (nguyen@sjcog.org) San Joaquin Local Agency Formation Commission Board Members, % James Glaser (jglaser@sjgov.org)

Manteca City Council, % Lisa Blackmon, City Clerk (Iblackmon@ci.manteca.ca.us) Jeff Denham, United States House of Representatives, % Peter Butler (Peter.Butler2@mail.house.gov)

Reclamation District No. 17 Board Members, % (ngmplcs@pacbell.net) Reclamation District No. 2075 Board Members, % Pam Forbus (pamforbus@sbcglobal.net) Reclamation District No. 2094 Board Members, % Albert Boyce (albertboyce@gmail.com) South San Joaquin Irrigation District Board of Directors, % Betty Garcia (bgarcia@ssjid.com) San Joaquin County Board of Supervisors, % Mimi Duzenski (mduzenski@sjgov.org) Tanis Toland, U.S. Army Corps of Engineers, Sacramento District (Tanis.J.Toland@usace.army.mil)

5151 E. ALMONDWOOD DRIVE MANTECA, CA 95337

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California Department of Water Resources, Attn: Mary Jimenez (mary.jimenez@water.ca.gov) Lathrop City Council, % Teresa Vargas, City Clerk (website\_cco@ci.lathrop.ca.us)

Central Valley Flood Protection Board, Attn: Leslie Gallagher, Executive Officer

(leslie.gallagher@cvflood.ca.gov)

5151 E. ALMONDWOOD DRIVE MANTECA, CA 95337

#### SELECTED LIST OF LETTERS SENT BY TERRA LAND GROUP with Permalinks to Dropbox Files

1	Date	Туре	From	То	Description	Dropbox Permalink
						https://www.dropbox.com/s/mz8y84gnnixhewp/2018-02-
1	2/7/2018	LTR	TLG	LAFCo	2/8/18 Mtg Ag Its 4 & 5	07_LTR_LAFCo_Aglts4%265.pdf?dl=0
						https://www.dropbox.com/s/33ssttfko9fer97/2018-02-
2	2/6/2018	LTR	TLG	MCC	2/6/18 Mtg Ag Its B, D.1, D.2, E.1	06_LTR_MCC_AgItsB%20D1%20D2%20E1.pdf?dl=0
						https://www.dropbox.com/s/u8cndghar5foyfv/2018-02-
3	2/5/2018	LTR	TLG	MCC	2/6/18 Mtg At It C.11	05_LTR_MCC_AgItC11.pdf?dl=0
						https://www.dropbox.com/s/4amu4mlri0o3sf5/2018-01-
4	1/30/2018	LTR	TLG	SJRRC	ACE Extension NOP EIR	30_LTR_SJRRC_ACENOP.pdf?dl=0
						https://www.dropbox.com/s/zxyfrflr3quoaqg/2018-01-
5	1/27/2018	LTR	TLG	RD2075	1/27/18 Mtg Ag It Public Comments	27_LTR_RD2075_PubComm_MHkh_shorter.pdf?dl=0
						https://www.dropbox.com/s/jtsvxapgys6bufa/2018-01-
6	1/23/2018	LTR	TLG	CVFPB	1/26/18 Mtg Ag It 8A (Letter 2)	23_LTR_CVFPB_Ltr2Aglt8A.pdf?dl=0
						https://www.dropbox.com/s/3cjjf3vayqkhi98/2018-01-
7	1/23/2018	LTR	TLG	SJCOG	1/25/18 Mtg Ag It 5F	23_LTR_SJCOG_Aglt5F.pdf?dl=0
						https://www.dropbox.com/s/jv9ts3vbg59qc6a/2018-01-
8	1/22/2018	LIR	TLG	MPC	1/23/18 Mtg Public Comments	22 LTR MPC PubComm wEncls Reduced.pdf?dl=0
						https://www.dropbox.com/s/claoc2wm9iis5w2/2017-12-
9	12/12/2017	LIR	TLG	MCC	Public Concerns Re: Flooding	12 LTR MCC PublicConcerns MHcm.pdf?dl=0
10	44/00/0047		<b>T</b> I O			https://www.dropbox.com/s/ou973vpx5xakxkj/2017-11-
10	11/28/2017		TLG	SJRRC	12/1/17 Mtg Ag Its 2, 5, 6	28_LTR_SJRRC_Aglts2%265%266_MHcm.pdf?dl=0
4.4	44/7/0047	TRANS			Mantana Oita Onanail Manting	https://www.dropbox.com/s/t305bxkvuvy8rra/2017-11-
11	11/7/2017				Manteca City Council Meeting	07_MCC_TRANSCRIPT.pdf?dl=0
10	44/7/0047	TRANS			CIC Desard of Current is and Martin a	https://www.dropbox.com/s/tcwv3goomanz1la/2017-11-
12	11/7/2017	CRIPT			SJC Board of Supervisors Meeting	07_SJCBS_TRANSCRIPT.pdf?dl=0
				DSA (Dept.		
10	40/44/0047		то	State		https://www.dropbox.com/s/yumyutzz0nl5sni/2017-10-
13	10/11/2017		TLG	Architect)	Flood Concerns	11_LTR_DSA_FloodConcerns_MHcm.pdf?dl=0
1.4	10/3/2017				Montono City Council Monting	https://www.dropbox.com/s/ayvxzzbfva21fu4/Transcript%2010-03- 2017%20MCC%20Meeting.pdf?dl=0
14	10/3/2017	CRIPT			Manteca City Council Meeting 10/3/17 Mtg Ag It D.1 - Griffin Park	https://www.dropbox.com/s/u2d52mmce8gwd4e/2017-10-
15	10/2/2017		TLG	МСС	EIR	02_LTR_MCC_AgltD1GriffinPark_MHcm.pdf?dl=0
15	10/2/2017	LIK	TLG	NICC	EIR	
10	10/0/0047		то	MCC		https://www.dropbox.com/s/n25lih2drhkb90v/2017-10-
16	10/2/2017		TLG		10/3/17 Mtg Ag It D.2 - PFIP 9/19/17 Mtg Ag It C.9 - Wastewater	02_LTR_MCC_AgltD2PFIP_MHcm.pdf?dl=0 https://www.dropbox.com/s/omxkmsjaks74i1k/2017-09-
17	9/18/2017	ітр	TLG	MCC	Feasibility Study	
17	9/10/2017	TRANS	ILG		Manteca Planning Commission	<u>18_LTR_MCC_AgltC9WastewaterFeasibilityStudy_MHcm.pdf?dl=0</u> https://www.dropbox.com/s/b1c6wo470vapezm/Transcript%2009-12-
18	9/12/2017				Manteca Planning Commission Meeting	2017%20MPC%20Meeting.pdf?dl=0
10	3/12/2017				9/12/17 Mtg Ag It G.1 Griffin Park	https://www.dropbox.com/s/y3tl3zsj61u64vf/2017-09-
19	9/12/2017	ітр	TLG	MPC		12_LTR_MPC_Aglt6.1GriffinPark_MHcm.pdf?dl=0
19	9/12/2017	LIK	ILG		Project	

#### SELECTED LIST OF LETTERS SENT BY TERRA LAND GROUP

with Permalinks to Dropbox Files

					Oakwood Landing/Cerri Denali	https://www.dropbox.com/s/i7caj91itppw0lh/2017-09-
20	9/6/2017	LTR	TLG	MCDD	Project DEIR Public Comments	06_LTR_MCDD_CerriDenaliProj_MHcm_STAMPED.pdf?dl=0
-				SJRRC	May 2017 ACEforward DEIR Public	https://www.dropbox.com/s/gy9xk0uzdhwle36/2017-08-30 LTR TLG-
21	8/30/2017	LTR	TLG	(ACE)	Comments	ACE_PubComm_MHcm.pdf?dl=0
				· · ·	SR-99/SR-120 Interchange https://www.dropbox.com/s/wovaz73vu9ragsm/2017-08-09 LTR MH SR99	
22	8/9/2017	LTR	MH	SR99/120	Improvements Comments	120InterchangeProj_MHcm.pdf?dl=0
					07/06/17 Mtg Ag Its 5.1 and 5.2 https://www.dropbox.com/s/0fy7d08xlatgedh/2017-07-	
23	7/5/2017	LTR	TLG	SJAFCA	Flood Funding	05_LTR_SJAFCA_Aglts5.1a5.2_MHcm.pdf?dl=0
				John	Promoting Public Involvement Re:	https://www.dropbox.com/sh/zt4ho1yjri4wa4e/AAByDilySd44QCN3udF_M6IWa?dl
24	5/31/2017	LTR	TLG	Maguire	Flood Protection Along the LSJRB	<u>=0</u>
					5/16/17 Mtg Ag It A.11 2017 Fed	https://www.dropbox.com/s/rwh26kchjzq3zuj/2017-05-
25	5/16/2017	LTR	TLG	MCC	Legislative Agenda	16_LTR_MCC_ReAgItA11_MHjs.pdf?dl=0
				John	Response to 4/27/17 email re	https://www.dropbox.com/s/ss2lrlqvyx4ai4k/2017-05-
26	5/12/2017	LTR	TLG	Maquire	snowmelt impacts to SJR	12_LTR_Maguire_MHcm.pdf?dl=0
				MUSD		
				Board of	05-09-2017 MUSDmtg/04-27-2017	https://www.dropbox.com/sh/cr7yy1y9m1feaqf/AAC_9lj35X5eLBT64CYHLnJKa?dl
27	4/25/2017	LTR	TLG	Trustees	MBArticle	<u>=0</u>
					04/25/17 SJCBS Mtg Public	https://www.dropbox.com/s/7dy40jzlgeotw56/2017-04-20 LTR SJCBS Re04-25-
28	4/20/2017	LTR	TLG	SJCBS	Comment	17MtgPubComm MHcm.pdf?dl=0
					04/18/17 MCC Mtg Ag It B.2 Terra	https://www.dropbox.com/s/2st0ptaifryrafa/2017-04-
29	4/18/2017	LTR	TLG	MCC	Ranch Subdivision Map	18_LTR_MCC_ReAgItB2TerraRMap_MHjs.pdf?dl=0
					04/04/17 MCC Mtg Ag It C.1 GP	https://www.dropbox.com/s/5gur8naawvwbein/2017-04-
30	4/4/2017	LTR	TLG	MCC	Advisory Committee	04_LTR_MCC_ReAgItC1GPAdvisoryCommittee_MHjs.pdf?dl=0
					Comments on proprosed flow	
						https://www.dropbox.com/s/wtrmiukoa73y3mm/2017-03-
31	3/14/2017	LTR	TLC	SWRCB	Merced Rivers	14_LTR_CASWRCB_FlowIncreasesStanTuolMercedRivers_MH_wEnc.pdf?dl=0
					00	https://www.dropbox.com/sh/goiphhxy938hoqw/AAALAye4m3MO2sLvMTArCcAY
32	2/20/2017	LTR	TLG	MCC	Impact Fee	<u>a?dl=0</u>
					02/07/17 MCC Mtg Ag It B.3 Levee	https://www.dropbox.com/sh/209rlw89z3xdvzt/AAD-
33	2/6/2017	LTR	TLG	MCC	Impact Fee	x6vECw8PfApGEiJTvyVqa?dl=0
					11/22/16 Ag Its 7.1, 7.2, 7.3	
34	11/21/2016	LTR	TLG	MPC	Housing/Safety/Circulation	https://www.dropbox.com/sh/h5nqt2vfuf3iz6g/AADolH6jCPfv6PPVKILIKcf1a?dl=0
			TLG/			
			Bryce		12/15/15 Mtg Ag It B.1 General	https://www.dropbox.com/s/02h2jtwaekhxga5/2015-12-
35	12/15/2015	LTR	Perkins	MCC	Plan	15_LTR_MCC_ReAgItB1GenPlan_BPjs.pdf?dl=0
					12/15/15 Mtg Ag It B.1 General	https://www.dropbox.com/s/7hv0xgzqo7yz2ef/2015-12-
36	12/15/2015	LTR	TLG/MH	MCC	Plan	15_LTR_MCC_ReAgItB1GenPlan_MHjs.pdf?dl=0
						https://www.dropbox.com/s/z9aoz68xbgs9o6f/2015-11-
37	11/24/2015	LTR	TLG	MPC	11-24-15 MPC Mtg Ag It 6.3 GP	24_MPC_Aglt6.3GP_MHjs.pdf?dl=0
					06/23/15 Mtg Ag It. 7-1 Municipal	https://www.dropbox.com/s/7c57w02r6fqkrwc/2015-06-23_LTR_NU-MPC_AgIt7-
38	6/23/2015	EML	NU	MPC	Service Review updates	1MSRupdates.pdf?dl=0

#### SELECTED LIST OF LETTERS SENT BY TERRA LAND GROUP with Permalinks to Dropbox Files

					USACE/		
				John	Tanis	Lower San Joaquin River Project	https://www.dropbox.com/s/4lhgvtncsoswgte/2015-03-31_LTR_JMinney-
3	9	3/31/2015	LTR	Minney	Toland	Interim Report	USACE_LSJRInterimReport.pdf?dl=0

#### List of Environmental Impact Reports and other Environmental and Technical Documents Reviewed by Terra Land Group

- "Regional Transportation Plan/Sustainable Communities Strategy Draft Programmatic Environmental Impact Report;" San Joaquin Council of Governments, March 2018.
- "Draft Regional Transportation Plan Sustainable Communities Strategy;" San Joaquin Council of Governments ("SJCOG"), 2018.
- "San Joaquin River Basin Lower San Joaquin River, CA FINAL Integrated Interim Feasibility Report/Environmental Impact Statement/Environmental Impact Report;" San Joaquin Area Flood Control Agency ("SJAFCA"), Central Valley Flood Protection Board ("CVFPB"), US Army Corps of Engineers ("USACE"), January 2018.
- "DRAFT Municipal Service Review Selected San Joaquin County Reclamation Districts;" San Joaquin Local Agency Formation Commission, December 20, 2017.
- "SSJID and City of Manteca Request for Proposal for Master Plan Study for the French Camp Outlet Canal;" South San Joaquin Irrigation District, City of Manteca, November 2017.
- "DRAFT Technical Memorandum Central Valley Flood Protection Plan Investment Strategy;" California Department of Water Resources ("DWR"), August 2017.
- "Central Valley Flood Protection Plan 2017 Update [Final];" DWR, August 2017.
- "Draft EIR for the Oakwood Landing-Cerri & Denali Subdivisions;" DeNovo Planning Group, July 2017.
- "Draft Environmental Impact Report San Joaquin Regional Rail Commission ACE*forward*;" ICF, May 2017.
- "San Joaquin River Basin-Wide Feasibility Study;" DWR, March 2017.
- "Flood System Long-Term Operations, Maintenance, Repair, Rehabilitation, and Replacement Cost Evaluation: Draft Technical Memorandum;" DWR, January 2017.
- "Central Valley Flood Protection Plan 2017 Update Draft;" DWR, December 2016.
- "Bay Delta Conservation Plan/California WaterFix Final EIR/EIS;" DWR, U.S. Bureau of Reclamation, December 2016.
- "CVFPP Supplemental Program Environmental Impact Report;" DWR, December 2016.
- "Recirculated Draft: Substitute Environmental Document in Support of Potential Changes to the Water Quality Control Plan for the San Francisco Bay-Sacramento San Joaquin Delta Estuary; San Joaquin River Flows and Southern Delta Water Quality;" California State Water Resources Control Board, California Environmental Protection Agency, September 2016.
- "2017 CVFPP Update Scoping Report;" DWR, July 2016.
- "San Joaquin River Basin Lower San Joaquin River, CA Draft Integrated Interim Feasibility Report/EIS/EIR;" USACE, SJAFCA, February 2015.
- "Final EIR Phase 3-RD 17 Levee Seepage Repair Project Administrative Draft;" Reclamation District No. 17, March 2015.
- "Lower San Joaquin River and Delta South Regional Flood Management Plan;" SJAFCA, November 2014.
- "Draft: Lower San Joaquin River and Delta South Regional Flood Management Plan;" SJAFCA, January 2014.
- "Environmental Impact Statement: River Islands at Lathrop, Phase 2B;" USACE, October 2014.

- "2012 Central Valley Flood Protection Plan ("CVFPP");" DWR, June 2012.
- "Regional Mercury Load Reduction Evaluation Central Valley, California;" US Environmental Protection Agency Region 9, CA Regional Water Quality Control Board: Central Valley Region, August 2008.
- "Investing in California's Flood Future: An Outcome-Driven Approach to Flood Management;" Presentation at the Floodplain Management Association Conference, DWR, September 2016.
- "Storms and Flooding in California in December 2005 and January 2006--a Preliminary Assessment;" US Geological Survey, 2006.
- "French Camp Outlet Canal-Hydraulic Capacity Analysis Final Report;" CH2M Hill, February 2002



## Union Pacific Railroad Comments on the ACE Extension EIR

1 message

#### Clint E. Schelbitzki <CESCHELB@up.com>

Fri, May 25, 2018 at 4:11 PM

To: aceextension.south@gmail.com Cc: "Wesley J. Lujan" <WJLUJAN@up.com>, "Francisco J. Castillo JR" <FCASTILLO@up.com>, "David M. Pickett" <DMPICKET@up.com>, Kevin Sheridan <Kevin@acerail.com>

Attached are Union Pacific's comments on the EIR for proposed extended ACE service towards Merced.

Please let me know if you have any questions,

Clint

(See attached file: UPRR Merced EIR Comments 20180525.pdf)

Clint Schelbitzki | Sr. Director Network Development | <u>Union Pacific Railroad</u> | 10031 Foothills Blvd. Roseville, CA 95747 Office: 916.789.6360 | Fax: 402.501.1734 | ceschelb@up.com

\*\*

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\*\*

7-	UPRR Merced EIR ( 299K	Comments	20180525.pdf
	299K		



May 25, 2018

San Joaquin Regional Rail Commission Attn: EIR for the SJRRC ACE Extension Lathrop to Ceres/Merced 949 E. Channel Street Stockton, CA 95202 Submitted to <u>ACEextension.south@gmail.com</u>

#### Re: Union Pacific Railroad Comments on the ACE Extension EIR

To Whom It May Concern,

This letter will serve as Union Pacific Railroad's (UPRR) formal comments to the San Joaquin Regional Rail Commission's (SJRRC) ACE Extension Environmental Impact Report (EIR). The EIR seeks to add new Altamont Corridor Express (ACE) service and construct rail infrastructure along corridors that ACE currently does not operate over today. UPRR has a direct interest in the proposed projects because it owns and operates the rail corridors noted throughout the EIR.

The UPRR corridors included in this study make up a portion of our Northern California network that is responsible for providing safe, reliable, and efficient freight rail service across the region. Through its network, which includes over 32,000 miles of rail within the western two-thirds of the United States, UPRR provides a critical link between California's freight rail customers and the national and international markets UPRR serves. The passenger service proposals included within the EIR must in no way impact these freight customers and their ability to continue to ship by rail.

While UPRR has not approved the proposed ACE service to Ceres/Merced, we have had ongoing communication with SJRRC about how to mitigate possible negative impacts to the freight rail network from the proposals listed in the EIR. UPRR has analyzed SJRRC's proposal and is in the process of providing guidance about the necessary rail infrastructure that could be required if UPRR approves the extension of the ACE service towards Merced. As the owner of the rail network, UPRR maintains sole discretion to determine what infrastructure and compensation is required before expanded passenger service is allowed. If the service is approved by UPRR, all elements of the recently executed SJRRC/UPRR MOU and our pending infrastructure analysis, whether listed within the EIR or not, will be satisfied before new or expanded service is initiated. Any new rail infrastructure constructed as part of this process must also meet all UPRR engineering standards and requirements.

UNION PACIFIC CORPORATION 10031 Foothills Blvd. Roseville, CA 95747 Clint Schelbitzki General Dir. – Network Development P 916-789-6360 E ceschelb@up.com P3-1

UPRR looks forward to continuing good-faith discussions with SJRRC regarding these proposed projects. UPRR reserves the right to comment on any modified drafts of the EIR if presented in the future. UPRR likewise notes that construction of the improvements and any changes in passenger rail service will require execution of definitive agreements between the parties.

Sincerely,

list

Clint Schelbitzki Sr. Director, Network Development

Cc:

Wes Lujan, Union Pacific Railroad Francisco Castillo, Union Pacific Railroad David Pickett, Union Pacific Railroad



### **Re: Delivery Status Notification (Failure)**

1 message

albert cresci <koolhead.ac@gmail.com> To: ACEextension.south@gmail.com Mon, May 28, 2018 at 7:23 PM

On Mon, May 28, 2018, 4:34 PM Mail Delivery Subsystem <mailer-daemon@googlemail.com> wrote:

Error Icon	Address not found Your message wasn't delivered to ACEextentions.south@gmail.com because the address couldn't be found, or is unable to receive mail.
double-checki	ount that you tried to reach does not exist. Please try ng the recipient's email address for typos or unnecessary more at https://support.google.com/mail/?p=NoSuchUser 107-
From: albert cresc To: ACEextentions Cc: Bcc: Date: Mon, 28 Mar Subject: Track ove I am a farmer at 18 projected develope and exit and my ne will also cut out my	d message ii <koolhead.ac@gmail.com> s.south@gmail.com y 2018 16:34:22 -0700 erlay 811 north southern Pacific ave my name is Albert Cresci i have recieve your ement schedule but your plan does not work for me cutting off my entrance eighbor would be using my land to get in and out of his residence and this y income rent agreement I have with the Scot bros farming and have other nent this is not a good plan for us i and the further possability of income</koolhead.ac@gmail.com>

developement will be lost not to mention financial loss for me and a well establish Scoto Bros farming and poor compensation from you to take the land we voted no for this developement

l1-1 cont



**icon.png** 2K



#### ACE Extension Lathrop to Ceres/Merced

1 message

#### Hong-An Doan <hongandoan@hotmail.com>

Fri, Apr 13, 2018 at 6:09 PM To: "ACEextension.south@gmail.com" <ACEextension.south@gmail.com>

Dear ACE:

I am overjoyed to learn about the planned ACE extension Lathrop to Ceres/Merced. Thank you so much for the initiatives and project!!! This would greatly help people living in the Merced/ Stanislaus counties to have a much easier commute to the South Bay / Bay Area and have access to a lot more job opportunities. This is AWESOME, thanks again and I wish you much success and enjoyment in this project.

12-1

Sincerely, Hong-An Doan

13-1



#### **Extension of ACE to Modesto and Ceres**

1 message

**Mark Jacops** <mjsunol@comcast.net> To: ACEextension.south@gmail.com Sat, Apr 14, 2018 at 1:20 PM

I am very much in favor of increasing public transportation around the Bay Area.Traffic congestion in the Bay Area has become non tolerable at times.

Mark Jacops

Sunol Ca 94586

Email : mjsunol@comcast.net



### Concerns about the ace train service along highway 99

1 message

**Mr B r a d** <jhill\_81@yahoo.com> To: aceextension.south@gmail.com Tue, May 8, 2018 at 3:51 PM

concerns about the ace train service along highway 99.

As a professional radio communicator I wanted to add requirements to the project

that the train , track signaling and crossing equipment be selected and tested before and after

operation for both emission of radio frequency interference to other services and also be checked that

it can not be harmed by strong radio signals ( such as high power broadcasts ,radio/cell towers

and HF heating devices ) for the publics safety.

Riding on the train , of having it pass through my town or alongside my car on the road

should not produce radio static , as you know most public busses have this problem

from the use of computers as well as fluorescent and now LED light power supplies.

Diesel electric motors can also produce large amounts of radio static.

Long overhead signaling lines as used in legacy railroad control systems can also

propagate radio interference over long distances.

With proper selection of certified power supplies and the use of fairrite cores most interference

problems can be kept under control. And the public can enjoy broadcast radio/tv cell phones,

shortwave radio and fire/police radio will be protected from loss of service. I am in full support of train service for the valley!

thank you Brad Johnson Town of Salida Ca. ValleyMedia.Org Gate way to Local Media Content for Stanislaus County Modesto Salida Ripon ValleyMedia.Org Gate way to Local Media Content for Stanislaus County M...



### Expansion with current train problems

1 message

Linda Johnson <l49johnson@hotmail.com> Mon, Apr 23, 2018 at 3:08 PM To: "ACEextension.south@gmail.com" <ACEextension.south@gmail.com>

I only have one thing and that is, if you are having continued train issues on your current routes how can you expand?

Over 17 years riding off and on, you do not take the time to fix your equipment or if you do it is mickey mouse job.

15-1

Thanks Linda Johnson



### ACE Extension Lathrop to Ceres/Merced

1 message

 Frank McHugh <frank3fjmco@hotmail.com>
 Sat, Apr 14, 2018 at 7:01 AM

 To: "ACEextension.south@gmail.com" <ACEextension.south@gmail.com>

Yes to Ace Extension to relieve the freeways and driving tension

16-1

Sent from Mail for Windows 10



Name: <u>Richard Meissner</u> Organization (if any): <u>Address (optional):</u> City, State, Zip: <u>Modesb</u> <u>CA</u> 95351 E-mail address: <u>Nichardomki3sner @attonat</u>

Start construction as soon as possible so Moderto residents (+ others who have have seen an ACE 17-1 will Know where their money is going. Salida station (E. of Salida Blud Explore q near ornan),-Alerth ot interbound 99 KIGRAN lorto (+ Would attract north 17-2 Committers May not downtown Modatto + would Stanislaus River ( on 99) The dip to Theres parking lot Iring evening committee hours. A nsure media (ike too Modesto 17-3 ACE. brids about

Open House – ACE Extension Lathrop to Ceres/Merced DEIR May 8, 2018



### Impact of Station Relocation

1 message

**Chris Mendes** <chrismendes@verizon.net> To: ACEextension.south@gmail.com Sun, May 27, 2018 at 1:22 PM

To whom it may concern,

This communication is on behalf of myself and my husband, Frank "Raymond" Mendes and Christine Mendes. Our address is 18401 S. McKinley Ave., Manteca, CA 95337.

We are very concerned regarding the ACE station relocation and the impact it will have on our current lifestyle. The location for moving the Lathrop Manteca Station to McKinley Avenue will cause an enormous change in traffic, noise, and quality of life, that combined with the impending McKinley Avenue interchange will change our once quite and peaceful country ranchete into a main traffic thoroughfare. We anticipate traffic from Manteca, Lathrop, Salida, Escalon, and Tracy. According to the maps we have seen the Station and the parking will be south of our property. It will be dangerous to leave our driveway.

We were also informed on Friday that ACE plans to place an undercrossing under the existing railroad track which will be in the front of our property. The tentative map we were shown has the new entrance to our drive way cutting through the middle of our front pasture. I would imagine the roadway will be widened to accommodate the extra traffic, also cutting through a portion of our property. The other option would be an overcrossing or raising of the tracks any of which will be catastrophic to our current life style.

We purchased and built our dream home on this parcel in 1990. Our plan was to live out our lives here. We are 68 and 65, we are too old to move and the stress of the changes is affecting our lives and potentially our health.

Please send an email of confirmation of receipt of this communication.

Frank and Christine Mendes



Fri, Apr 13, 2018 at 3:52 PM

### ACE Extension Lathrop to Ceres/Merced

1 message

Kevin

Kevin Moss <kmoss2118@yahoo.com> To: ACEextension.south@gmail.com

I am a long time rider from Manteca and if this change moves the station to Lathrop, the I am not in favor of this change, it would add 20 plus minutes a day to my commute. This will also add a lot more cars to the 120/5 junction causing worse traffic jams. Thanks

19-1

Sent from my iPhone



### ACE Extension Lathrop to Ceres/Merced

1 message

**Sandra Moss** <ksmoss2118@yahoo.com> To: ACEextension.south@gmail.com Fri, Apr 13, 2018 at 3:44 PM

Will the Manteca station be moving to Lathrop because that is very inconvenient for the majority of people who live in Manteca. Currently Manteca is 3 to 4 times the population. It would make no sense to add those people to hi-way 120 to get to Lathrop!

110-1

Sent from my iPhone



### **ACE Extension**

1 message

**Kenneth Sacca** <ksacca@juniper.net> Wed, Apr 25, 2018 at 12:09 PM To: "ACEextension.south@gmail.com" <ACEextension.south@gmail.com>

No, there can be no increase in ACE service as the service has turned into a busing program for San Joaquin school districts sending kids to Great America. The months of February, March, April, May and June have turned into a circus with kids taking up valuable space on trains for commuters. The stress is already off the charts with the constant ACE delays, GPS problems, etc without expanding service which will benefit Ceres/Merced school districts. ACE must fix current issues before expanding. I've already complained to my congressman in the 15th district of CA that ACE isn't fulfilling it's charter for commuters.

111-1



### ACE Extension Lathrop to Ceres/Merced

1 message

Adam Serpa <mradamserpa@gmail.com> To: ACEextension.south@gmail.com Tue, May 22, 2018 at 10:14 PM

Hello!

I ride ACE to work at least three times a week and I think this southern expansion is exactly what we need.

Many people drive from Modesto to the Bay Area for work everyday and opening up a Modesto station would make ACE available to a large metro area and also reduce traffic between Modesto and Manteca.

This extension would also open up access from Modesto to Sacramento or the Bay Area by rail and develop the quality of life for cities on the 99 corridor. People would be able to use ACE for work commute as well as eventually use the train to go to sporting events or concerts, etc.

The current rail access to Modesto is wat over east of the city in a place not easily accessed by bike or walking and Amtrak only runs through a few times a day. A station in Modesto would provide more equitable and environmentally friendly options for getting to the station as well as being closer to most neighborhoods in Modesto.

Highway 99 and 120 are becoming impossible congested during commute hours. ACE extensions to Ripon and Modesto could also provide commute options for local traffic as well. A person could commute from Modesto to Manteca or Ripon and not have to use the freeway.

Thank you for taking public comment and working on this initiative to improve our quality of life!

Adam Serpa Modesto Resident Bay Area Commuter 112-1



### **ACE Extension**

1 message

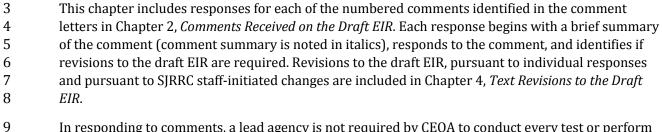
 Christopher Stai <cstai@pacbell.net>
 Fri, Apr 13, 2018 at 8:24 PM

 Reply-To: Christopher Stai <cstai@pacbell.net>
 To: "ACEextension.south@gmail.com" <ACEextension.south@gmail.com>

If the ridership from Ceres/Modesto to Lathrop/Manteca grows to become larger than from Stockton to Lathrop/Manteca, will ACE consider having multiple trains that go from Ceres through to San Jose instead?

113-1

1	Chapter 3
2	Responses to Comments



In responding to comments, a lead agency is not required by CEQA to conduct every test or perform
all research, study, or experimentation recommended or demanded by a commenter. Rather, a lead
agency need only respond to significant environmental issues and does not need to provide all
information requested by reviewers, as long as a good faith effort at full disclosure is made in the
EIR (CEQA Guidelines Sections 15088, 15204).

It is also important to note that, under CEQA, responses are limited to comments concerning the
adequacy of the environmental analysis in the EIR. Comments advocating support or opposition to
the project are noted and will be considered by the SJRRC, but are not responded to in this
document. An EIR is not the document by which to consider the merits of the project, because CEQA
is focused on describing the environmental impacts of a project and of the evaluated alternatives.

## **19 3.1** Individual Responses

## 20 **3.1.1** Response to Comment Letter S1, Caltrans

21 **S1-1** 

The comment identifies the California Department of Transportation (Caltrans) standards and policies
 that SJRCC would be required to adhere to.

RESPONSE S1-1: Chapter 2, *Description of Phase I Improvements* of the draft EIR identifies that
 certain improvements would occur near or in the Caltrans ROW. The following improvements would
 occur near or in the Caltrans ROW.

- Modification of the existing State Route (SR) 120 undercrossing and construction of new
   retaining wall. This would be located at mile-post (MP) 81.68 on the Oakland Subdivision for
   construction of the **Relocated Lathrop/Manteca Station**.
- Installation of pier protection on westbound SR 120 overhead structure's east pier and
   installation of pier protection along two of eastbound SR 120 overhead structure's east piers.
   This would be located at MP 98.35 on the Fresno Subdivision for construction of the Ceres
   Extension Alignment.
- Installation of pier protection along eight of southbound and northbound SR 99 overhead
   structure's north piers and installation of pier protection along eight of southbound and

- northbound SR 99 overhead structure's south piers. This would be located at MP 111.05 on the
   Fresno Subdivision for construction of the Ceres Extension Alignment.
- Installation of pier protection along three of northbound SR 99 overhead structure's east piers
   and installation of pier protection along four of southbound SR 99 overhead structure's east
   piers. This would be located at MP 114.76 on the Fresno Subdivision for construction of the
   Ceres Extension Alignment.
- Construction of two new pedestrian paths crossing under SR 99 and new crosswalks along
   North Street and El Camino Avenue for the Ceres Station.
- 9 Installation of a traffic signal at the intersection of the SR 99 southbound off-ramp and El
   10 Camino Avenue for the Ceres Station.
- Use of SR-99 for the interim bus service.
- SJRCC will coordinate with Caltrans to ensure that the work and design of Phase I improvementswithin the Caltrans ROW will adhere to Caltrans standards.
- Phase II improvements are conceptual in nature and SJRRC will continue to coordinate with Caltrans
   as the design for the Phase II improvements progresses.

### 16 **S1-2**

- 17 The comment encourages SJRCC to incorporate design features that promote a multi-modal system.
- 18 RESPONSE S1-2: Many jurisdictions are locating pedestrian and bicycle facilities in locations near 19 and complementary to ACE station areas. In some instances, pedestrian and bicycle infrastructure 20 enhancements are included in a city's or county's pedestrian or bicycle plan, such as the San Joaquin 21 Council of Governments (SICOG) Regional Bicycle, Pedestrian, and Safe Routes to School Master 22 Plan; Stanislaus Council of Governments (StanCOG) Non-Motorized Transportation Master Plan; and 23 Merced County Regional Bicycle Transportation Plan. On the city level, ACE is a beneficial 24 component of currently approved and ongoing station area plans, downtown specific plans, and 25 general plans. The ACE Extension stations would be located within the downtown areas of cities 26 where transit services are already provided. On the regional level, ACE would connect to other 27 regional transit systems. ACE and High-Speed Rail (HSR) are designed to be co-located in Merced. 28 Furthermore, ACE Extension operations are consistent with the Regional Transportation Plan (RTP) 29 for Santa Clara Valley Transportation Authority (VTA), Alameda County Transportation Commission 30 (ACTC), SJCOG, StanCOG, and Merced County Association of Governments. The ACE Extension is one 31 of the major projects included in these documents, which serve as the sustainable communities 32 strategies and the 2040 RTPs for the respective areas, integrating transportation and land-use 33 strategies to manage GHG emissions and plan for future population growth.

# 34 3.1.2 Response to Comment Letter S2, State Lands 35 Commission

### 36 **S2-1**

The comment identifies the State Land Commission as a trustee agency and identifies that a lease and
 formal authorization will be required from the State Lands Commission for portions of the Proposed
 Project encroaching on State sovereign land. The comment requests that the EIR include additional

- 1 details regarding the work that would occur for the bridges over the Stanislaus, Tuolumne, and Merced
- Rivers, including the in-water work, activities associated with pile driving, dewatering activities, and
   the construction timetable.

RESPONSE S2-1: The draft EIR acknowledges that approval would be required from the State Land
Commission for both Phase I and Phase II improvements. Table 2-8 in Chapter 2, *Description of Phase I Improvements* and Table 3-7 in Chapter 3, *Description of Phase II Improvements* identify the
approvals required for the Proposed Project. Approval from the State Land Commission is included
in Table 2-8 and Table 3-7.

9 Chapter 2, *Description of Phase I Improvements* has been revised to include additional details for the
10 bridges that would be constructed over the Stanislaus and Tuolumne Rivers (see below). The Phase
11 II improvements are conceptual in nature and will be refined as these improvements progress to the
12 project-level analysis. Thus, additional details for the bridge over the Merced River is not included at
13 this time but will be identified when project-level analysis is conducted. Nonetheless, the bridge
14 details for the Merced River would be similar to those described for the bridges over the Stanislaus
15 Tuolumne Rivers.

The commenter correctly identified an inconsistency of the timeline for bridge construction. It is
 conservatively assumed that bridge construction would last approximately 36 months. This has
 been revised in the EIR.

### 19 **S2-2**

The comment identifies that the environmental footprint of the new bridge crossing over the Stanislaus
River is not shown in Appendix B.

RESPONSE S2-2: The environmental footprint map, which is included in Appendix B of the draft EIR
 has been revised to include a figure that depicts the environmental footprint over the Stanislaus
 River. The revised environmental footprint map included in this final EIR as Appendix A, Updated
 *ACE Extension Environmental Footprint*.

### 26 **S2-3**

The comment requests additional information about impacts to special-status plant species, including
how mitigation would lower impacts to a less than significant level.

29 RESPONSE S2-3: The draft EIR conservatively modeled the habitat of special-status plant species 30 throughout the ACE Extension environmental footprint, the majority of which includes existing 31 railroad tracks and disturbed areas. The Phase I and Phase II improvements are limited in scale and 32 the actual impacts will likely be much lower than what is identified in the draft EIR. The likelihood 33 for many of the special-status plant species to occur within the environmental footprint is relatively 34 low and the potential they would be impacted is lower because the footprints of the ACE Extension 35 improvements are dominated by previously disturbed, developed, and agricultural areas. Mitigation 36 in the draft EIR requires focused surveys for special-status plant species during their respective 37 blooming seasons before construction to inform avoidance and, if necessary, relocation/replanting 38 efforts. If replanting efforts are necessary, such populations will be monitored per an adaptive 39 management plan to ensure successful compensatory mitigation.

40 No revisions to the draft EIR are necessary pursuant to this comment.

### 1 **S2-4**

The comment requests that the draft EIR identify the results of any consultation with U.S. Fish and
 Wildlife Service (USFWS) and California Department of Fish and Wildlife (CDFW).

RESPONSE S2-4: USFWS and CDFW were given the opportunity to review the draft EIR and neither
 agency submitted comments. The SJRRC has also previously informally reached out to USFWS and
 CDFW during the ACE*forward* environmental review, which included the extension to Ceres and

- 7 Merced. Coordination and formal consultation, as required, with both agencies will occur during the
- 8 environmental permit application process after the final EIR is completed.
- 9 No revisions to the draft EIR are necessary pursuant to this comment.

### 10 **S2-5**

11The comment requests clarification on time windows for preconstruction surveys and potential12conflicts with overlapping restricted work windows.

RESPONSE S2-5: The draft EIR requires preconstruction surveys for several special-status wildlife
 species. The Mitigation Measures that require protocol level surveys were prepared by qualified
 wildlife biologists. The timing for the preconstruction surveys were developed by the qualified

16 wildlife biologists according to their understanding of the special-status species behavior. In regard

- 17 to Mitigation Measure BIO-2.7, there is no fixed standard established for the timing of
- 18 preconstruction surveys for these special-status lizards; as such the mitigation leaves the timing to 19 the qualified biologist.

20 Mitigation Measure BIO-2.8 requires a work avoidance window to the extent feasible during the bird 21 nesting season (February 1 through August 31) and Mitigation Measure BIO-3.3 requires seasonal 22 restriction for work in river channels (October 16 through June 16). It is acknowledged that these 23 two restricted work windows do overlap between February 1 and June 16. Together Mitigation 24 Measures BIO-2.8 and Bio-3.3 direct work to occur outside of the most sensitive time periods for 25 nesting birds and migrating fish, respectively. Mitigation Measure BIO-2.8 allows work to occur 26 during the nesting season (February 1 through August 31) under the condition that migratory bird 27 nests are not present within species-specific buffers from the project. Furthermore, Mitigation 28 Measure BIO-2.8 identifies that nest exclusion measures (e.g., blocking cavities, bird spikes, netting, 29 etc.) could be implemented outside of the nesting season to exclude nests from becoming 30 established. The installation of nest exclusion measures could potentially allow work to continue

- 31 during the February 1 through August 31 period.
- 32 No revisions to the draft EIR are necessary pursuant to this comment.

### 33 **S2-6**

The comment requests that the EIR include an underwater acoustic analysis to clarify the impacts to
 special-status fish and how the mitigation would minimize impacts to a less than significant level.

- 36 RESPONSE S2-6: The EIR has been updated to include an underwater acoustic analysis. See revisions
- 37 in Chapter 2, *Description of Phase I Improvements*, in response to comment S2-1 for a description of
- 38 the piles that would be installed for the bridges over the Stanislaus and Tuolumne Rivers. As
- 39 indicated in the revisions pursuant to the response to comment S2-1, most of the piles for the

- bridges would be drilled or installed using the vibratory method including the trestle. Vibratory pile
   driving methods would not result in significant impacts to special-status fish species.
- 3 Impact pile driving would only occur on land, within 65 feet of the Stanislaus River, for the
- 4 installation of the abutment for the bridge. No pile driving would occur in the water. The results of
- 5 the underwater acoustic analysis of the impact pile driving added to the final EIR determine that the
- 6 impact pile driving would not exceed noise thresholds for injury to fish.
- 7 Revisions have been added to Section 4.5, *Biological Resources*, concerning the acoustic analysis.

### 8 **S2-7**

- 9 The comment requests that the EIR identify the estimated area of permanent and temporary habitat 10 impacts.
- RESPONSE S2-7: As identified in the revisions to Chapter 2 in Response to Comment S2-1, only one 11 12 pile would be located within the Stanislaus River. The permanent impact area for the one pile within 13 the Stanislaus River would be 50 square feet (<0.01 acre). A temporary work area of 5,000 square 14 feet (0.11 acre) would be required for the temporary work trestle, which would be used to support equipment to construct the bridge of the Stanislaus River. Therefore, the temporary impact to the 15 16 Stanislaus River would be 5,000 square feet. The temporary impact to the Stanislaus River is conservatively estimated to be 5,000 square feet. The actual impacts to this river would be lower 17 18 because the temporary impact area would be limited to the areas where the piles would be installed 19 within the water for the construction of the temporary work trestle.
- 20 As identified in the revisions to Chapter 2 in Response to Comment S2-1, only two piles would be 21 located within the Tuolumne River. The permanent impact area for the two piles within the 22 Tuolumne River would be 100 square feet (<0.01 acre). A temporary work area of 6,000 square feet (0.14 acre) would be required for the temporary work trestle, which would be used to support 23 24 equipment to construct the of the bridge of the Tuolumne River. The temporary impact to the 25 Tuolumne River is conservatively estimated to be 6,000 square feet. The actual impacts to this river 26 would be lower because the temporary impact area would be limited to the areas where the piles 27 would be installed within the water for the construction of the temporary work trestle. The Phase II 28 improvements are more conceptual.
- Permanent and temporary habitat impacts from Phase II improvements (bridge over Merced River)
  will be provided in the subsequent project-level analysis.
- 31 The draft EIR used a conservative estimate for the potential impacts to the Stanislaus and Tuolumne
- 32 Rivers (riverine aquatic features). Section 4.4, *Biological Resources* has been revised to reflect the
- updated details of the bridges over the Stanislaus and Tuolumne Rivers, as summarized in responseto comment S2-1.

### 35 **S2-8**

- The comment requests that additional details be provided in the EIR regarding potential impacts to
   submerged cultural resources
- 38 RESPONSE S2-8: A search of the State Lands Commission Shipwreck database, conducted by Jamie
- 39 Garrett of the State Lands Commission, did not identify any shipwrecks directly within the project
- 40 area at the Stanislaus and Tuolumne Rivers (Garrett pers. comm.). However, there remains the

1 potential to encounter previously undocumented submerged resources during project related 2 ground disturbing activities. Page 4.5-25 (Lines 10-14) of Section 4.5, Cultural Resources 3 acknowledges that construction could disturb previously undocumented archeological resources in 4 the vicinity of the Stanislaus and Tuolumne Rivers and that these rivers and the areas around the 5 rivers are considered areas with high general prehistoric archeological resource sensitivity and high 6 buried archeological resource sensitivity. The draft EIR identifies mitigation to minimize impacts to 7 previously undocumented archeological resources, which would also protect previously 8 undocumented submerged resources. Mitigation Measure CUL-2.3 would require archeological 9 monitoring for work in and around the Stanislaus and Tuolumne River because these areas are 10 considered archeologically sensitive. Mitigation Measure CUL-2.4 requires implementation of 11 procedures in the case of inadvertent archeological discoveries. Because the draft EIR already 12 identifies measures to protect previously undocumented archeological resources and because these 13 measures would also protect any previously undocumented submerged resources, no revisions to 14 the draft EIR are necessary.

### 15 **S2-9**

- 16 The comment requests revisions to mitigation concerning cultural resources within state lands.
- 17 RESPONSE S2-9: The requested additional text stating that the final disposition of archeological,
   18 historical, and paleontological resources recovered on state lands under the jurisdiction of the
- California State lands Commission must be approved by the Commission has been included in
   Mitigation Measures CUL-2.4 and CUL-2.5 in Section 4.5, *Cultural Resources*.

### 21 **S2-10**

## The comment requests that additional information be provided about impacts associated with construction near an open hazardous materials site located near the Tuolumne River.

24 RESPONSE S2-10: The comment states that Figure 4.9-3 shows a hazardous materials release site 25 within the environmental footprint for construction activities near the Tuolumne River. This 26 statement is incorrect. Figure 4.9-3 shows hazardous materials release sites within the Phase I study 27 area, not within the environmental footprint of any Phase I improvements. Section 4.9, Hazardous 28 *Materials* of the draft EIR (page 4.9-12, lines 14-21) identifies that there are hazardous materials 29 release sites within the study area of the Ceres Extension Alignment (which includes the proposed 30 bridge over the Tuolumne River); that these hazardous materials release sites could have affected 31 groundwater underlying the Ceres Extension Alignment; and that the release sites are unlikely to 32 affect soil underlying the **Ceres Extension Alignment** because these sites are not located within the 33 Ceres Extension Alignment environmental footprint. Furthermore, Section 4.9, Hazardous 34 Materials of the draft EIR (page 4.9-30, lines 4-13) identifies that construction of the Ceres 35 **Extension Alignment** (which includes the proposed bridge over the Tuolumne River) could result 36 in the disturbance of potentially contaminated groundwater. As discussed on page 4.9-30 (lines 15-37 20), implementation of Mitigation Measures HAZ-2.1, HAZ-2.2, and HAZ-2.3 would require a 38 voluntary oversight agreement, site investigations, and a construction risk management plan 39 (CRMP), which would reduce impacts from the disturbance of potentially contaminated 40 groundwater during construction to a less-than-significant level. Additionally, as discussed in 41 Section 4.10, Hydrology and Water Quality (page 4.10-27, lines 13-18), implementation of Mitigation 42 Measures HYD-1.1 and HYD-1.2, which require specific procedures for the discharge of groundwater 43 or dewatering effluent and specific procedures for construction work within, or crossing surface

- water, would ensure that potential impacts on water quality during construction would be less than
   significant.
- 3 No revisions to the draft EIR are necessary pursuant to this comment.

### 4 **S2-11**

- 5 The comment requests that the EIR provide additional details regarding dewatering activities.
- 6 RESPONSE S2-11: See revisions to Chapter 2 in response to Comment S2-1 above.

### 7 **S2-12**

- 8 The comment requests that the EIR clarify how Mitigation Measures HAZ-2.2, HAZ-2.3, and HYD-7.1 9 would minimize potential water quality impacts in Impact HYD-1 to a less than significant level.
- 10 RESPONSE S2-12: Impact HYD-1 in Section 4.10, *Hydrology and Water Quality* has been revised to
   11 identify how Mitigation Measures HAZ-2.2, HAZ-2.3, and HYD-7.1 would be implemented to
   12 minimize impacts to water quality.

### 13 **S2-13**

The comment requests that the EIR identify impacts associated with disturbance of sediment
 contaminated with mercury when working with the Stanislaus, Tuolumne, and Merced Rivers and the
 results from consultation with the Regional Water Quality Control Board (RWQCB).

17 RESPONSE S2-13: Based on correspondence with the RWQCB (Morris pers. comm.), the actions 18 required by Mitigation Measures HYD-1.1 and HYD-1.2, as presented in Section 4.10, Hydrology and *Water Ouality* (page 4.10-27, line 1 to page 4.10-28, line 40), are requirements that would be in the 19 20 Water Quality Certification. The RWQCB also indicated that because the bridges would be 21 constructed in 303d listed waters for mercury, there may be some additional requirements for 22 mercury monitoring and management. For example, there may be a requirement for pre-project 23 sediment sampling to see if elevated mercury levels are present in the project area; if mercury levels 24 are elevated, the RWQCB would likely require a sediment plan describing actions to minimize the 25 erosion and discharge of the contaminated sediments (e.g., removal, armoring, etc.). Additionally, 26 there may be some aqueous mercury monitoring added to the monitoring list.

27 As indicated in Mitigation Measure HYD-1.2 as presented on page 4.10-28 (lines 11-20), the 28 construction contractor(s) would obtain applicable resource agency permits and approvals and 29 comply with permit requirements to prevent impacts on water quality and demonstrate that water 30 quality standards and/or Waste Discharge Requirements are not violated. Prior to the start of 31 construction activities that could disturb potentially contaminated soil or sediment adjacent to or 32 within surface waters, sampling and analysis of the potentially contaminated soil or sediment will be 33 performed as required by Mitigation Measure HAZ-2.2, to ensure that the soil or sediment is 34 appropriately handled, reused, or disposed of based on the sampling and analysis results. The 35 sampling and analysis results will be presented to the State Water Board for review so that 36 appropriate water quality monitoring parameters can be designated in permit requirements.

Based on the informal consultation with the RWQCB (Morris pers. comm.), the actions that would be
 required by the RWQCB for permitting of bridge construction activities within waters impaired by
 mercury were adequately described in the draft EIR. Mitigation Measures HYD-1.1, HYD-1.2, and

- HAZ-2.2, as discussed above, would be required by the EIR, in addition to being required by the
   RWQCB during the 401 certification permitting process.
- 3 No revisions to the EIR are required pursuant to this comment.

### 4 **S2-14**

5 The comment requests that the EIR consider the potential recreational impacts due to reduced
6 navigation on rivers due to the installation of new piers for new bridges.

7 RESPONSE S2-14: Construction of the bridge over the Stanislaus River would require the installation 8 of one pier within the Stanislaus River: however, this pier would be located at the very edge of the 9 Stanislaus River. Construction of the bridge over the Tuolumne River would require the installation 10 of two piers within the Tuolumne River; however, both piers would be located at the edges of the 11 Tuolumne River. The location of the piers are shown in Appendix C of the draft EIR. The pier that 12 would be located in the Stanislaus River (Pier 19) is shown in Sheet 171 of 331 of Appendix C. The 13 piers that would be located in the Stanislaus River (Piers 31 and 32) are shown in Sheet 172 of 331 14 of Appendix C. Because the piers that would be installed for the bridges over the Stanislaus and 15 Tuolumne Rivers would be located at the edge of the water, it is unlikely that they would create a 16 permanent navigational obstacle for watercrafts using the two rivers. There would be sufficient 17 space for watercrafts to continue to use the Stanislaus and Tuolumne Rivers. Thus, the installation of 18 the piers would not create a permanent navigational obstacle that would constrain navigation.

19The comment also identified that the installation of in-water structure could result in accumulation20of large woody debris, sediment, and other materials near the structures, which could create a21hazard for navigation. SJRCC would periodically maintain the two bridges over the Stanislaus and22Tuolumne Rivers. Chapter 2, Description of Phase I Improvements has been revised to indicate that23periodic maintenance would include routine removal of woody debris, sediment, and other24materials that accumulate near the piers of the bridges. The periodic maintenance of the bridge25structures would ensure that navigation hazards are minimized.

# 3.1.3 Response to Comment Letter S3, Central Valley Flood Protection Board

### 28 **S3-1**

### 29 The comment identifies the requirements for a Central Valley Flood Protection Board (Board) Permit.

RESPONSE S3-1: The Phase I improvements would require construction of bridges over Stanislaus
 River and Tuolumne River. The Phase II improvements would require construction of a bridge over
 the Merced River. The Board has jurisdictions over designated floodways, up to 30 feet from the

- bank and regulated streams. The Stanislaus River, Tuolumne River, and Merced River are
- 34 considered regulated streams and are under the jurisdiction of the Board (Cullum pers. comm.).
- 35 Permits from the board would be required for construction of the Phase I and Phase II
- 36 improvements that cross areas under the Board's jurisdiction.
- 37 Furthermore, the comment regarding other federal and state permits being required are noted. The
- 38 EIR on page 2-38 notes that permits from U.S. Army Corps of Engineers (USACE), RWQCB, and
- 39 CDFW are anticipated to be required for the Phase I improvements. The EIR on page 3-26 notes that

- permits from USACE, RWQCB, and CDFW are anticipated to be required for the Phase II
   improvements.
- Pursuant to this comment, the EIR on page 2-38 (Table 2-12) has been modified to identify that a
  permit from the Board would be required for the Phase I improvements.

# 3.1.4 Response to Comment Letter S4, State of California Governor's Office of Planning and Research

- 7 **S4-1**
- 8 The comment identifies that SJRCC has complied with the State Clearinghouse requirements and 9 includes the comment letters that were provided by Caltrans, the State Land's Commission, Central 10 Valley Flood Protection Board, and the Central Valley RWQCB.
- 11 RESPONSE S4-1: The State Clearinghouse's comment that SJRCC has complied with its requirements

12 is noted. The agency comment letters included as attachments in the State Clearinghouse's letter

13 were received directly by the SJRCC. Responses to these comment letters are not repeated here.

14Responses to the comment letters from Caltrans, the State Land's Commission, Central Valley Flood

Protection Board, and the Central Valley RWQCB can be reviewed in Sections 3.1.1, 3.1.2, 3.1.3, and3.1.5.

# 17**3.1.5**Response to Comment Letter R1, Central Valley18Regional Water Quality Control Board

- 19 **R1-1**
- The comment describes the regulatory requirements for water quality that would apply to the
  Proposed Project.
- RESPONSE R1-1: The information on the Central Valley Regional Water Quality Control Board's role
   in reviewing the draft EIR, the purpose and content of Basin Plans, and antidegradation
   considerations is noted. As discussed in Section 4.10, *Hydrology and Water Quality*, the draft EIR
   evaluates potential impacts to both surface water and groundwater quality.
- 26 No revisions to the draft EIR are necessary pursuant to this comment.

### 27 **R1-2**

- 28 The comment describes the permitting requirements for the Construction Storm Water General Permit.
- 29 RESPONSE R1-2: The information on the Construction General Permit is noted. As discussed in
- 30 Section 4.10, *Hydrology and Water Quality*, construction of ACE Extension would comply with the 31 Construction General Permit.
- 32 No revisions to the draft EIR are necessary pursuant to this comment.
- 33 **R1-3**
- 34 The comment describes the permitting requirements for the Phase I and II MS4 Permits.

- 1 RESPONSE R1-3: The information on the Phase I and II MS4 permits is noted. As discussed in Section
- 2 4.10, *Hydrology and Water Quality*, the design and operation of ACE Extension improvements would
- 3 comply with applicable Phase I and II MS4 permits.
- 4 No revisions to the draft EIR are necessary pursuant to this comment.

### 5 **R1-4**

- 6 The comment describes the permitting requirements for the Industrial Storm Water General Permit.
- 7 RESPONSE R1-4: The information on the Industrial Storm Water General Permit is noted. As
- 8 discussed in Section 4.10, *Hydrology and Water Quality*, the **Ceres Layover Facility, variant 1**
- 9 alternative; **Ceres Layover Facility, variant 2**; and **Merced Layover Facility** would include train
- fueling and cleaning operations and would, thus, be required to comply with the Industrial GeneralPermit.
- 12 No revisions to the draft EIR are necessary pursuant to this comment.

### 13 **R1-5**

- 14 The comment describes the permitting requirements for the Clean Water Act Section 404 Permit.
- 15 RESPONSE R1-5: The information on Clean Water Act Section 404 Permitting is noted. As discussed
- 16 in Section 4.10, *Hydrology and Water Quality*, the design and construction of ACE Extension
- 17 improvements would comply with Section 404 Permit requirements.
- 18 No revisions to the draft EIR are necessary pursuant to this comment.

### 19 **R1-6**

- 20 The comment describes the permitting requirements for the Clean Water Act Section 401 Permit.
- 21 RESPONSE R1-6: The information on Clean Water Act Section 401 Permitting and Water Quality
- 22 Certification requirements is noted. As discussed in Section 4.10, *Hydrology and Water Quality*, the
- 23 design and construction of ACE Extension improvements would comply with Section 401 Permit and
- 24 Water Quality Certification requirements.
- 25 No revisions to the draft EIR are necessary pursuant to this comment.
- 26 **R1-7**

## The comment describes the requirements for the Water Quality Certification and Waste Discharge Requirement (WDR) processes.

- 29 RESPONSE R1-7: The information on Water Quality Certification and WDR processes is noted. As
- discussed in Section 4.10, *Hydrology and Water Quality*, Water Quality Certifications and WDRs
   would be obtained as required for applicable ACE Extension improvements.
- 32 No revisions to the draft EIR are necessary pursuant to this comment.

### 1 **R1-8**

2 The comment describes the permitting requirements for dewatering permits.

3 RESPONSE R1-8: The information on potentially applicable permits for dewatering activities is

4 noted. As discussed in Section 4.10, *Hydrology and Water Quality*, discharge of dewatering effluent

- would be performed in accordance with applicable regulations. In addition, Mitigation Measures
   HAZ-2.2, HAZ-2.3, HYD-1.1, HYD-1.2, and HYD-7.1 would be implemented to avoid water quality
- 7 impacts from dewatering discharges.
- 8 No revisions to the draft EIR are necessary pursuant to this comment.

### 9 **R1-9**

- 10 The comment describes the regulatory compliance requirements for properties that are used for 11 commercial irrigated agriculture.
- RESPONSE R1-9: ACE Extension would not include commercial irrigated agricultural; therefore, the
   regulatory compliance requirements for properties that are sued for commercial irrigated
   agriculture would not apply to the ACE Extension.
- 15 No revisions to the draft EIR are necessary pursuant to this comment.

### 16 **R1-10**

- The comment describes the permitting requirements for the Low or Limited Threat General NPDES
   Permit.
- 19 RESPONSE R1-10: The information on potentially applicable permits for dewatering activities is20 noted. See response to Comment R1-8 above.

### 21 **R1-11**

- 22 The comment describes the permitting requirements for a NPDES Permit.
- RESPONSE R1-11: The information on NPDES permit requirements is noted. As discussed in Section
   4.10, *Hydrology and Water Quality*, ACE Extension would comply with applicable NPDES permit
   requirements.
- 26 No revisions to the draft EIR are necessary pursuant to this comment.

## 3.1.6 Response to Comment Letter L1, Alameda County Transportation Commission

### 29 **L1-1**

- 30 The comment expresses support of the Proposed Project.
- 31 RESPONSE L1-1: Comment noted. Alameda County Transportation Commission's support of the
- 32 Proposed Project is noted and appreciated.

## **3.1.7** Response to Comment Letter L2, City of Livermore

### 2 **L2-1**

The commenter requests additional information regarding the planned platform extensions at the
 existing ACE Livermore and Vasco Road Stations.

5 RESPONSE L2-1: The planned platform extensions at the existing ACE Livermore and Vasco Roads 6 are not part of this ACE Extension Lathrop to Ceres/Merced project. As described on page 5-14 in 7 Chapter 5, Other CEQA-Required Analysis, this project functions independently of any other ACE 8 project and has independent utility. SJRRC proposes to extend station platforms at the Livermore 9 and Vasco Road Stations, as well as at three additional existing stations. The existing platforms at 10 these stations are approximately 450 feet long and would be extended by approximately 550 feet, 11 for a total station platform length of 1,000 feet. The extended platforms would be located entirely 12 within the existing UPRR ROW and no part of this improvement would encroach onto private 13 parcels or the City of Livermore's ROW or surrounding roadway network. The platform extensions 14 would accommodate the use of longer ACE train (additional passenger coaches). Given the project 15 would occur entirely within the existing UPRR ROW and has independent utility, a CEQA Statutory 16 Exemption was filed for this project in March 2018 and construction is anticipated in late 2018. This 17 comment does not concern the adequacy of the EIR.

18 No revisions to the draft EIR are necessary pursuant to this comment.

### 19 **L2-2**

The commenter requests SJRRC to consider implementing Iron Horse Trail connections to the existing
 ACE Livermore and Vasco Road Stations.

RESPONSE L2-2: The comment is noted. As described in Section 1.2, *Project History* in Chapter 1,
 *Introduction*; the current focus of ACE expansion is the feasible and fundable extension of service in
 the Central Valley. This project does not concern enhancing station connectivity to alternative
 modes of transportation at the Livermore and Vasco Road Stations. SJRRC will coordinate with the
 City of Livermore regarding the potential incorporation of trail connections separate from this
 project. This comment does not concern the adequacy of the EIR.

28 No revisions to the draft EIR are necessary pursuant to this comment.

### **3.1.8 Response to Comment Letter L3, City of Merced**

- 30 **L3-1**
- 31 The comment expresses support of the Merced Layover East of SR 99 alternative.
- RESPONSE L3-1: The City of Merced's comments concerning the City's opinions about the virtues of
   the Merced Layover East of SR 99 alternative are noted.
- 34 The analysis of the **Merced Layover Facility** options in the current EIR is at a programmatic level.
- 35 SJRRC intends to carry both options forward to the subsequent project-level CEQA analysis, which
- 36 will examine and compare the impacts of the two options in greater detail. The City will have an
- 37 opportunity to consider that project-level analysis and provide additional comments at that time.

- Only after completion of the project-level CEQA analysis will SJRRC make a decision concerning the
   selected layover facility location.
- 3 This comment concerns the judgement and preferences of the City concerning the Merced Layover
- Facility options but does not raise any concern regarding the adequacy of the EIR analysis and thus
   no revisions to the EIR and no further response is required.
- 6 **L3-2**
- 7 The comment expresses support of the **Merced Bus Stop**.
- 8 RESPONSE L3-2: Comment noted. The City of Merced's support of the **Merced Bus Stop** is noted.

### 9 **3.1.9** Response to Comment Letter L4, City of Ripon

- 10 **L4-1**
- 11 The comment expresses support of the Proposed Project.
- 12 RESPONSE L4-1: Comment noted. The City of Ripon's support of the Proposed Project is noted.

# 13 3.1.10 Response to Comment Letter L5, Merced County 14 Association of Governments

### 15 **L5-1**

- The comment requests additional information regarding the service characteristic for the Phase I bus
   shuttle service.
- 18 RESPONSE L5-1: SJRRC intends to work with MCAG, TJPA, and others in regards to the bus shuttle
- 19 service including identification of an operating entity, funding for operations, charging
- 20 infrastructure location and operation, bus stop locations, Transpo operation capacity and fare
- 21 system after the completion of the environmental process as the project moves forward to
- 22 implementation (presuming project approval).
- Pursuant to this comment, the EIR on page 2-20 has been modified to delete reference to MCAG as
  the operator of the bus bridge service and state that the service operator is yet to be determined.

# 3.1.11 Response to Comment Letter O1, Merced County Farm Bureau

27 **01-1** 

28 The comment expresses concern about impacts to agricultural operations from the **Merced Layover** 

29 *Facility*, including potential impacts associated with removed access to agricultural parcels. The

30 comment also requests a timeline to be provided to impacted landowners regarding Phase II

- 31 *improvements.*
- RESPONSE 01-1: Although not specifically shown on the engineering drawings, access would be
   maintained to all three parcels directly impacted by the Merced Layover Facility (APNs 059-330-

- 1 027, 059-330-028, and 059-330-035). The engineering drawings have been modified to show the 2 access roadway paralleling the **Merced Layover Facility** fence, which provides access out to 3 Southern Pacific Avenue. These revised engineering drawings are included as Appendix B, Updated 4 ACE Extension 15% Preliminary Engineering Plants in the final EIR. There will be a new at-grade 5 crossing to the north of the Merced Layover Facility, which will only be used on the rare occasion 6 that trains depart the facility and go north, or if there is a problem with the southern access. The 7 analysis of the **Merced Layover Facility** in the current EIR is at a programmatic level. There will be 8 more details and coordination when the project-level CEQA document is prepared. Furthermore, as 9 described in Response to Comment 01-2, SJRCC is also considering an alternative to the Merced 10 **Layover Facility** at a different location. SIRRC intends to carry both options forward to the 11 subsequent project-level CEQA analysis, which will examine and compare the impacts of the two 12 options in greater detail. Only after completion of the project-level CEQA analysis will SJRRC make a 13 decision concerning the selected layover facility location.
- 14 Regarding the comment about a timeline for construction of Phase II improvements, construction
- 15 timing would depend on when funding is secured, environmental review timing and the timing for
- permitting, contractor selection, final design, and construction duration. Also, construction will be
   phased to match funding and service priorities. No further information about the timeline is known
   at this time.
- 19 The commenter also expressed concern that the operation of the **Merced Layover Facility** would 20 limit nearby farmers from farming. Operation and maintenance of the **Merced Layover Facility** 21 would be limited to the facility itself, access to adjacent areas will be provided, and operations 22 would not require use of any agricultural areas. Like the existing railroad, agricultural operations 23 will be able to continue in adjacent areas.

### 24 **01-2**

- The comment expresses support of the Merced Layover East of SR 99 alternative, which would impact
   less agricultural lands than the proposed Merced Layover Facility.
- RESPONSE 01-2: MCFB's comments are noted concerning their opinion and judgement about the
   virtues of the Merced Layover Facility East of SR 99 Option compared to the West of SR 99 option
   and its impact to farmland.
- The analysis of the Merced Layover options in the current EIR is at a programmatic level. SJRRC
   intends to carry both options forward to the subsequent project-level CEQA analysis, which will
   examine and compare the impacts of the two options in greater detail. MCFB will have an
- opportunity to consider that analysis and provide additional comments at that time. Only after
   completion of the project-level CEQA analysis will SJRRC make a decision concerning the selected
   layover facility location.
- This comment concerns the judgement and preferences of MCFB concerning the layover facility
   option but does not raise any concern regarding the adequacy of the EIR analysis and thus no
   revisions to the EIR and no further response is required.
- 39 **01-3**
- 40 The comment expresses concern about conflicts with existing utility lines identified on Page 3-21.

- 1 RESPONSE 01-3: Chapter 3, Description of Phase II Improvements (page 3-21) states that track 2 construction could conflict with existing utility lines, and that these lines would be relocated or 3 protected. The Phase II improvements are conceptual in nature and will be refined as these 4 improvements progress to the project-level analysis. Impact USS-7 in Section 4.18, Utilities and 5 Services Systems (page 4.18-27) identifies that potential conflicts with utilities would be minimized 6 with implementation of Mitigation Measure USS-1, which requires SJRCC to coordinate with all 7 utility providers during the final design of the Proposed Project. Mitigation Measure USS-1 also 8 requires implementation of a utility relocation plan to minimize service interruption and to safely 9 relocate, repair, or replace affected utilities. SJRRC will coordinate with affected land owners and 10 utility providers as engineering for these improvements progresses.
- 11 No revisions to the EIR are required in regards to this comment.

### 12 **01-4**

The comment suggest revising Section 4.2, Agricultural Resources by referencing the 1999 Livingston
 General Plan, rather than the 2008 General Plan.

RESPONSE 01-4: The City of Livingston confirmed that the General Plan from 1999 is the General
 Plan being used by the City of Livingston (Hatch pers. comm.). The draft EIR has been revised to
 replace any references of the 2008 General Plan with the 1999 General Plan.

### 18 **01-5**

19 The comment expresses concern regarding significant impacts on groundwater supplies.

20 RESPONSE 01-5: As indicated in Section 4.10, Hydrology and Water Ouality (page 4.10-21, lines 33-21 35), the State CEOA Guidelines identify significance criteria to be considered when determining 22 whether a project could have significant impacts on existing hydrology and water quality. The 23 Impact HYD-11 statement on Page 4.10-56 referenced by the commenter is not indicating that the 24 Proposed Project would substantially deplete groundwater supplies or interfere substantially with 25 groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of local 26 groundwater table level; rather, it is identifying the significance criteria, which is then evaluated 27 below. As discussed on page 4.10-56 (lines 9-21), only temporary and limited dewatering would be 28 required for construction of new bridges and culverts. The dewatering effluent generated during 29 construction would be treated and discharged back to the nearby surface water, if possible, 30 providing an opportunity for groundwater recharge. See the response to comment number S2-1 for 31 additional details regarding the temporary and limited nature of construction dewatering activities. 32 As discussed on page 4.10-56 (lines 25-29), dewatering activities associated with construction of 33 Phase II improvements would have a less-than-significant impact on groundwater resources and 34 groundwater recharge because the dewatering activities for construction of bridges and culverts 35 would be short term and limited to bridge and culvert locations and because the discharged effluent 36 would have the opportunity to recharge the aquifer.

37 No revisions to the EIR are required in regards to this comment.

### **3.1.12** Response to Comment Letter O2, TRAC/TRANSDEF

### 2 **02-1**

The first two paragraphs of the comment letter introduces TRAC/TRANSDEF (hereafter, TRAC)
concerns about the alternative analysis in the EIR concerning alternatives suggested by TRAC in their
NOP scoping letter and states that the EIR did not adequately consider the TRAC alternatives.

- 6 Starting with the third paragraph, the comment concerns train splitting and alternative OPS-1, which
- refers to operating trains from Stockton and from Ceres that would be joined together in Lathrop in the
   morning and then split apart in the evening upon return from the Bay Area. The comment states that
   the EIR does not provide any detail substantiating the increase in service times.
- 10 RESPONSE 02-1: The reference to an alternative being "beyond the scope of the project" on page 624 is in regards to Alternative OPS-3, DMU ACE Service, considered in the EIR. This is discussed
  12 further in the response to Comment 02-5 below.
- All of the alternatives suggested by TRAC in their scoping letter, along with alternatives suggested 13 14 by others in scoping were considered by SIRRC. CEOA requires analysis of a reasonable range of 15 alternatives and does not require that an EIR analyze every alternative suggested. As explained in 16 Chapter 6 of the EIR, a range of alternatives were evaluated as to whether they met the project 17 objectives, whether they were feasible, and whether they avoided or substantially reduced 18 significant environmental impacts of the Proposed Project. CEQA does not require analysis of 19 alternatives that do not meet most of the project objectives, infeasible alternatives, or alternatives 20 that do not avoid or substantially reduce significant environmental impacts.
- Regarding the statement that SJRRC dismissed TRAC's alternatives out of hand or resisted TRAC's
  alternatives, Chapter 6 describes how alternatives were considered to determine whether they met
  the project's objectives, were feasible, or lowered environmental impacts of the Proposed Project.
  The mere suggestion of an alternative in a scoping letter does not mean that a public agency must
  complete a detailed analysis of an alternative if it does not meet most of the project's objectives, it is
  infeasible, or if it does not lower environmental impacts of the Proposed Project. Further
  considerations are noted below in the review of TRAC's specific comments on the alternatives.
- Regarding train splitting and Alternative OPS-1, SJRRC is not denying that there might be potential
   one-seat convenience and ridership benefits asserted by TRAC under the right conditions. However,
   at present, there are multiple operational concerns including the time necessary for coupling and
   splitting, the risk of mechanical failure, safety, and the lack of precedent to do train splitting in North
   America using existing/proposed Bombardier equipment.
- 33 • Train coupling or train splitting requires two separate actions: 1) physical coupling or splitting – 34 5 to 10 minutes; and 2) re-establishing the Positive Train Control (PTC) system for each new 35 consist – 15 minutes. If the PTC can be brought up at the same time as the actual 36 coupling/splitting, then the duration would be 15 minutes. If it cannot, then the delay could be a 37 total of 20 to 25 minutes. As shown in the prototypical schedules in the draft EIR, the delay time 38 with the proposed time transfers in Lathrop is between 5 and 10 minutes, with most transfers 39 taking less than 10 minutes. As such, a train splitting scenario will add between 5 and 15 40 minutes to each commute and up to 10 to 30 minutes for a daily commute compared to the 41 Proposed Project.

- When doing mechanical work, such as when joining or splitting a train, there is a risk of
   additional mechanical failure. The train also has to be re-inspected after joining, the air brake
   test has to be completed, and the PTC system has to be reengaged. Mechanical failure introduces
   the risk of additional service delay as well as concerns about safety, which is discussed in the
   next bullet.
- The crew would be doing the joining/splitting at the station on the railroad mainline; thus, there
   is a reduced amount of safety, given the frequent passage of freight trains. Furthermore, this will
   tie up the mainline in single track territory, which will be a concern for UPRR and may not be
   permitted by UPRR.
- SJRRC has not identified any train splitting for revenue service conducted in North American
   using the Bombardier equipment intended to be used for the Proposed Project. This lack of
   precedent means that this is untested on U.S. railroads operating under FRA regulations, which
   raises the potential for additional delay, mechanical, and safety issues than those described
   above. European regulations are different and not applicable to U.S. operations.
- 15 This information above has now been added to Chapter 6 in the EIR.
- 16The existing ACE service and the extended ACE service during the weekdays is dominated by San17Joaquin Valley workers travelling to the Tri-Valley and Silicon Valley for work. As such, their18commute mode choices are heavily influenced by time. For existing service from Stockton to San19Jose, train coupling would nominally add 5 to 15 minutes of additional travel time each way20compared to the Proposed Project. Thus, train coupling/splitting would extend the service time for21riders along the extension to Ceres and Merced.
- Regarding the issue of transfers, transfers are a concern for ridership, particularly between different
   modes. The project includes an interim bus bridge between Ceres and Merced until the extension to
   Merced is built, which acknowledges the issue of transfers that the commenter notes. Train splitting
   would trade the avoidance of a transfer for the inherent delay due to coupling and splitting,
   described above; thus, the benefits of a one-seat ride come at the expense of additional commute
   time for most riders.
- Reference to intercity travel in Europe observing train splitting does not add any relevant
  information except to describe that train splitting is feasible and done in Europe. As noted above, to
  SJRRC's knowledge, train splitting has not been done for revenue service using Bombardier
  equipment in the United States under FRA regulations. Information about European operations does
  not address the delay of ACE commuter rail operations and ACE ridership or potential issues of
  mechanical problems or safety.
- Even if train splitting resulted in higher ridership, this would not mean that Alternative OPS-1 would
   avoid or substantially lower a significant impact of the Proposed Project. Instead, in this
- hypothetical case in which ridership was lower without train splitting, the project would result in
   lower operational VMT, air pollution, and GHG reductions. These are benefits of the project, not
   adverse impacts of the project. CEQA only mandates consideration of alternatives that lower
   significant adverse impacts of a project; it does not mandate the consideration of alternatives that
- 40 have potential higher benefits than a project.
- 41 SJRRC has evidence (in the form of additional coupling/splitting time) that train splitting would
- 42 result in longer travel times for the Stockton to San Jose service and has evidence (in the form of the
- 43 comparison of coupling/splitting time to Lathrop transfer times in the typical service schedule) that

- 1 shows that there would be an adverse effect on both services, resulting in an adverse effect on
- ridership. In addition, there are mechanical and safety concerns about the unprecedented use of
   train splitting on a mainline railroad that have not been addressed.
- 4 The EIR has been modified to more fully explain the consideration of the Alternative OPS-1 and to 5 provide substantial evidence supporting the determination that the additional time would lower 6 ridership, which will reduce the project's operational VMT, air quality, and GHG emission reduction 7 benefits and that due to the unprecedented nature of train splitting using proposed Bombardier 8 equipment in the U.S., there remain unresolved mechanical and safety concerns of doing such 9 operations of a busy railroad mainline. This evidence shows that Alternative OPS-1 would not meet 10 the project's objective of enhancing intercity transit connectivity and would not avoid or 11 substantially reduce any of the project's significant impacts. No additional analysis of this
- 12 Alternative is required.
- 13 Nothing in the Proposed Project precludes SJRRC from considering train splitting in the future. In
- the future, SJRRC may purchase equipment that may make splitting more practicable and that
   addresses the delay, potential for mechanical failure, safety, and may then be able to address UPRR
- concerns about train splitting/coupling on a freight mainline. But with the present equipment and
   the current challenges, this is not an option today.

### 18 **O2-2**

- The comment states that the FRA has granted a waiver for light-weight DMUs to be used on freight
   railroads without temporal separation and cited Denton, Texas as the first example. The comment
   states that the EIR information on DMUs is out of date. The comment states that UPRR cannot prohibit
- 22 DMU operations on their lines if the FRA certifies it. The comment states that OPS-2 is not Alternative C 23 proposed by TRAC.
- 24 RESPONSE 02-2:
- As a point of information, if UPRR were to allow light-weight DMUs at some point in the future, it is possible that the benefits in terms of performance, ability to scale trains, and increase ridership and associated environmental benefits (VMT, air pollution, and GHG reduction) would occur. SJRRC is not denying these potential benefits stated by TRAC and is aware of them. But, as explained below, this is not a feasible option now, as SJRRC must work with UPRR requirements, which currently preclude the use of DMUs. In addition, as noted in the response to Comment O2-3, there are operational concerns about use of DMUs for service to San Jose.
- 32 The FRA has granted a waiver for light-weight DMUs to be used by Denton County Transit Authority 33 (DCTA), on a specific freight railroad in Denton, Texas, but the waiver requires temporal separation 34 between freight and DMU operation (FRA 2016). The comment did not cite any other examples of 35 waivers. The draft EIR states that lightweight DMU use in the United States is somewhat "limited". 36 This is correct as shown in a 2016 survey of DMU operations in North America (Nelson, Blakey, and 37 O Neill 2017) that identified only four light-weight non-FRA compliant DMU operations in the U.S. 38 that shared lines with freight in 2016: DCTA, Denton, Texas; Capital MetroRail, Austin, Texas; 39 Sprinter, San Diego County, California; and River Line, New Jersey. All four required FRA waivers 40 which required temporal separation. None of these four were using UPRR tracks. Other DMU 41 operations in California include BART's E-BART, which is on a dedicated track that is not shared 42 with freight, and SMART, which uses heavy-weight FRA compliant DMUs and not light-weight DMUs.
- 43 This additional information has been added to the EIR.

- 1 This additional information supports that the analysis in the EIR is accurate. Temporal separation is 2 a big issue for a host railroad, especially on busy mainline freight routes such as the Fresno 3 Subdivision, because it requires the host railroad to give up operational hours to the exclusive use of 4 passenger trains on the same tracks, which can create logistical delays for freight service. While 5 there are heavy-weight DMUs that are FRA compliant, due to their weight, they are less efficient and 6 have less performance advantages than European style light-weight DMUs, and as such present less 7 of an attractive alternative to conventional locomotives, which is why Alternative OPS-2 is focused 8 on light-weight DMUs.
- 9 The comment is correct that the FRA is responsible for certifying the safety of railway equipment;
- 10 however, the FRA certification only allows certain equipment to operate on Class 1 freight railroads. 11 UPRR is not required to allow passenger rail service on its freight railroads. ACE operates on the UPRR's railroads under a trackage rights agreement. UPRR does not have to agree to a new trackage 12 13 rights agreement with ACE for the extension to Ceres and Merced. Thus, were SIRRC to propose that 14 it would use DMUs on the extension, as a private railroad, UPRR is not obligated to accept DMUs, 15 even if FRA would allow for their use through a waiver process. SJRRC contacted UPRR in response 16 to this comment and they confirmed the prior understanding during the preparation of the draft EIR 17 that they would not allow DMUs to be used on their Class I freight lines (Sheridan pers. comm.). As 18 such, DMUs are not feasible as an alternative to the Proposed Project. CEQA does not require
- 19 environmental analysis of infeasible alternatives. This additional clarification has been added to the20 draft EIR.
- 21 Alternative OPS-2 is not the same as Alternative C suggested by TRAC in their scoping letter.

The draft EIR Alternative OPS-2 would involve use of DMUs to provide ACE service from Ceres (and
 Merced) to Lathrop and back instead of conventional locomotives and carriages. Alternative OPS-2
 was intended to consider an alternative to use of locomotives for the ACE Extension.

25 The TRAC scoping letter of February 9, 2018 instead describes a "third operational scenario" (which is presumably what this comment is referring to as "Alternative C") to serve Stockton (and 26 27 eventually Sacramento) with lightweight DMU equipment that would be coupled in Lathrop with 28 trains from Ceres (presumably conventional locomotives, but the scoping letter does not clarify the 29 equipment for the Ceres extension) and then travel to San Jose. Alternative OPS-3 in the EIR 30 analyzes an alternative with DMUs for both the Stockton to San Jose service and for the extension, 31 but it does not include train coupling/splitting, which was reviewed in Alternative OPS-1 as 32 described above.

33 An EIR is not required to analyze every alternative suggested in scoping. TRAC "Alternative C" is 34 infeasible for three reasons. First, as discussed above, UPRR will not allow DMUs on its Class I 35 railroads. Second, as discussed below in response to comments on Alternative OPS-3, DMUs cannot 36 provide sufficient capacity for the service to San Jose compared to the proposed conventional 37 locomotive and carriage equipment and there are concerns about service times. Finally, as discussed 38 in response to Comment 02-1 above, train splitting is considered infeasible for operational service 39 due to the inherent delay, potential for mechanical failure, and safety concerns of doing splitting and 40 coupling on a railroad mainline.

- 41 Thus, between analysis of Alternative OPS-1 (addressing train splitting), Alternative OPS-2
- 42 (addressing DMU use), and Alternative OPS-3 (addressing an all DMU fleet including service to San
- 43 Jose), the EIR has considered the equivalent of TRAC Operational Scenario C (or Alternative C). No
- 44 further revisions to the EIR are required.

### 02-3 1

5

2 The comment stated that the description of Alternative OPS-3 is unclear, that DMUs would perform 3 better than locomotives and carriage and thus result in better ridership and associated congestion, air 4 pollution and GHG emission reduction benefits than the Proposed Project, and that Alternative OPS-3 is not the same as TRAC Alternative D. Finally, the comment states that the alternative was designed to be 6 rejected.

#### 7 **RESPONSE 02-3:**

8 Regarding the description of Alternative OPS-3, Page 6-24 (Lines 29-30) of the draft EIR states that 9 "This alternative would use DMUs for the extension to Lathrop and Ceres and Merced and for 10 operations between Stockton and San Jose." In other words, Alternative OPS-3 would convert ACE to 11 an all-DMU service including between Stockton and San Jose and for the extension to Ceres and 12 Merced. The draft EIR has been revised to clarify the description per this comment. The second 13 sentence has been revised to state that this alternative is similar to the description provided in OPS-14 2 for the ACE extension (e.g. DMU operations along the extension) but this alternative would also 15 replace locomotive and carriages for the existing service with DMUs.

- 16 Alternative OPS-3 includes elements that are an alternative to existing service in addition to
- 17 elements that are an alternative to the Proposed Project. The Proposed Project is an extension of
- 18 ACE service to Ceres and Merced and would not change the train service (e.g. 4 trains using
- 19 locomotives and carriages each way) between Stockton and San Jose. As such, the element of 20 Alternative OPS-3 that concerns service between Stockton and San Jose is beyond the scope of the 21 project because it proposes changing something that is not part of the Proposed Project. This is not 22 the only reason for not evaluating this alternative in detail. As described on page 6-24, because this 23 alternative concerns the existing service and not the extension to Ceres and Merced, the element of 24 Alternative OPS-3 concerning service between Stockton and San Jose would not lower any effects of 25 the Proposed Project. Furthermore, as explained in the response above to Comment O2-3, UPRR will 26 not allow DMUs on its Class I railroads and this would apply equally to service along the extension 27 as to the existing corridor between Stockton and San Jose.
- 28 There are additional feasibility concern about Alternative OPS-3 in regards to capacity for the 29 service to San Jose. As described in the ACE forward EIR, ACE's existing trackage rights with UPRR 30 limits the number of daily round trips to San Jose to only 4 daily roundtrips. UPRR has identified that 31 it will require additional track capacity to be installed between Stockton and San Jose in order to 32 allow additional passenger rail slots. As ACE forward is not being advanced at this time, ACE is 33 limited to only 4 daily round trip slots. Thus, any DMU alternative would be subject to the same 34 constraint.
- 35 The current ACE service has a seated capacity of approximately 840 passengers per train based on 36 120 seats per each of the 7 bi-level carriages. As explained in Chapter 2, Description of Phase I 37 *improvements* (Section 2.3.3, *Core Capacity*, Page 2-22) of the draft EIR, ACE has plans to expand the 38 core capacity of the system to address ridership demands over time through adding additional 39 carriages up to 10 per train, which would increase the seated capacity up to 1,200 passengers per 40 train. SJRRC reviewed available DMU equipment for regional service, such as the Alstom Coradia 41 Lint, which is one of the most common DMU systems in use for regional service in Europe. The 42 Coradia Lint has a per car capacity of perhaps 60 to 90 seats/car (Alstom n.d.), comes in one to 43 three-car sets, and up to four sets can be combined in a single 12-car consist, indicating a maximum 44 seated capacity of 720 to 980 seats per train (Stadler n.d.). Other light-weight DMU systems in use in

- 1 the U.S. have similar seated capacities per car as the Coradia Lint. For example, Stadler DMU's used 2 for eBart (2 car sets, 104 seats total), Capital Metro in Texas (2 car sets, 108 seats total), Fort Worth 3 Transportation Authority in Texas (4 car sets, 224 seats total) and New Jersey Transit (2 car sets, 90 4 seats) have similar or smaller seated capacities as the Coradia Lint (Stadler n.d.). Most of these U.S. 5 system are using the Stadler GTW equipment for which up to 4 sets can be combined in one consist, 6 meaning a maximum capacity of approximately 900 seats per train (for a 16-car consist of four 4-car 7 GTW sets), which is still short of the proposed locomotive and carriage capacity. None of the current 8 U.S. DMU uses are operationally using such long consists, which is what would be necessary for 9 Alternative OPS-3. While a DMU alternative could meet today's seated capacity, it would provide 220 10 to 480 seats less per train than the Proposed Project in the future, which relies on the current plans 11 for longer conventional train sets. As such, an all DMU Alternative would result in lower ridership 12 than the Proposed Project and thus less congestion, air pollution, and greenhouse gas reduction 13 benefits.
- 14 Alternative OPS-3 included the key element of the TRAC Operational Scenario D in its scoping letter 15 (called Alternative D in the TRAC DEIR comment letter), that is, the use of DMUs for all ACE service 16 instead of locomotives and carriages. Alternative OPS-3 did not include the details of use of a one-17 unit DMU off-peak and mid-day service. Since DMUs are not allowed by UPRR on its railroad, and 18 UPRR will not allow additional passenger slots between Stockton and San Jose unless and until track 19 capacity improvements are made along that corridor, additional train service beyond four would not 20 be feasible and these additional details would not change the overall conclusion that TRAC 21 Operational Scenario D is infeasible.
- Alternative OPS-3 was also carried through the three-part screening as shown in the tables in
  Chapter 6. As shown by the consideration above and in Chapter 6, Alternative OPS-3 was not
  designed to be rejected but rather was determined to be infeasible as described above.
- Chapter 6 has been updated to clarify that the reasons for not analyzing Alternative OPS-3 in detail
  in the EIR is because the alternative is infeasible due to UPRR's prohibition of DMUs on its railroad
  and due to its inability to provide adequate ridership for the Stockton to San Jose service in light of
  the available passenger train slots from UPRR.
- As a point of information, if UPRR were to allow light-weight DMUs at some point in the future, it is possible that the benefits in terms of performance, ability to scale trains, and increase ridership and associated environmental benefits (VMT, air pollution, and GHG reduction) would occur. SJRRC is not denying these potential benefits stated by TRAC and is aware of them. But, as explained above, this is not a feasible option now, as SJRRC must work with UPRR requirements, which currently preclude the use of DMUs. In addition, as noted above, there are operational capacity concerns about use of DMUs for service to San Jose.

### 36 **02-4**

- 37 The comment states in regard to Alternative OPS-5 that the EIR is mistaken in stating that the
- 38 Proposed Project does not change the amount of ACE service to the Bay Area, that the failure to add
- 39 weekend service is a failure of imagination and that weekend service should be added to the project
- 40 and studied. The comment also states that defining the alternative as including Union City is a fatal
- 41 error because the Proposed Project does not include elements west of Lathrop and if the alternative
- 42 was more general about weekend service to the Bay Area, it must be studied.

- 1 RESPONSE 02-4: Weekend service to Union City was mentioned in a scoping comment by Mr.
- 2 Walter Freeman. As a result, SIRRC decided to include an alternative considering weekend service to 3 Union City. TRAC did not suggest weekend service in its scoping comment.

4 Whether or not Alternative OPS-5 describes weekend service to Union City, San Jose, or generally to 5 the Bay Area does not change the EIR conclusion that this alternative does not need to be evaluated 6 in the EIR. Alternatives considered in an EIR are, by definition, alternatives to the Proposed Project. 7 The Proposed Project does not include weekend service. As such, an alternative including weekend 8 service does not provide any meaningful discussion of an alternative to the Proposed Project. 9 Weekend service would not avoid or reduce any significant construction or operational adverse 10 impacts of the Proposed Project. Weekend service in addition to the Proposed Project would reduce weekend VMT, and associated air pollution and GHG emissions. This would not be avoidance of an 11 12 adverse project significant impact but an additional benefit on top of the project benefits. Additional 13 benefits to a project that are unrelated to the fundamental aspects of the Proposed Project (which is 14 about an extension to Ceres and Merced, not weekend service) do not provide comparative value in 15 a CEQA evaluation.

- 16 There is nothing preventing ACE from considering weekend service separately from the Proposed
- 17 Project. In fact, from time to time, ACE has considered such service. Nothing in the Proposed Project
- 18 requires weekend service and nothing hinders weekend service. As such, weekend service to the 19 Bay Area is a separate project from the Proposed Project, and does not need to be analyzed in this EIR.
- 20

### 21 02-5

22 Regarding Alternative OUT-1, the comment states that the draft EIR ignores TRAC's assertions that the 23 Fresno Subdivision would be used primarily by passenger trains not freight trains, because most freight 24 would be diverted to the West Side Line; that upgrading track is less expensive than laying new track 25 and an order of magnitude cost estimate should be prepared for the West Side Line Alternative to compare it to the Proposed Project; that the alternative would provide greater speeds and higher 26 27 ridership than the Proposed Project; and that UPRR might contribute funds to help build OUT-1.

28 RESPONSE 02-5: This response addresses each of these four point in turn after presenting UPRR's 29 position on this alternative.

#### 30 **UPRR's Position**

- 31 UPRR's comment on the draft EIR clearly states their position that SIRRC will be required to address
- 32 any impacts to freight capacity prior to UPRR allowing extension of passenger service. SJRRC
- 33 followed up with UPRR about the West Side Line Alternative and UPRR stated that it will not
- 34 consider a relocation of their main line (aka the Fresno Subdivision) and they declined to consider
- 35 that as a feasible option (Sheridan pers. Comm.).

#### 36 **Freight Routing and Distances**

- 37 The comment states that UPRR would divert most of the Fresno Subdivision freight to a refurbished
- 38 West Side Line based on the theory that through traffic from the Bay Area or Pacific Northwest
- 39 heading south of Fresno would preferentially use the West Side Line. This theory is put in doubt by a
- 40 consideration of the amount of freight and routes from the Bay Area as well as the length of travel
- 41 for both Bay Area and Pacific Northwest through freight trains. There are three freight routes to and
- 42 from Fresno that are of concern for evaluation of this Alternative:

- 1 From Stockton to Fresno via the Fresno Subdivision. Based on the 2018 State Rail Plan (Caltrans 2 2018), the average existing (2013) daily freight train traffic between Stockton and Fresno is 3 approximately 22 daily trains. In 2040, freight trains will rise to 40. The distance from Stockton 4 to Fresno via the Fresno Subdivision is approximately 118 miles compared to the distance from 5 Stockton to Fresno via Lathrop and the West Side line, which is approximately 139 miles. 6 Because this is longer, it is hard to see any motivation for freight between Stockton and Fresno 7 (including Pacific Northwest through-freight or freight from the Bay Area via Martinez and 8 Stockton) to be routed by the West Side Line accordingly.
- 9 From Tracy to Fresno via the Oakland Subdivision and Fresno Subdivision. Based on the 2018 10 State Rail Plan (Caltrans 2018), the average existing (2013) daily freight train traffic on the 11 Oakland Subdivision east of Niles is only 4 daily trains, rising to 8 trains in 2040. The Oakland 12 Subdivision east of Niles is constrained by the sharp curves in Niles Canyon and the grades and 13 curves in the Altamont Hills, which is why current and projected use is limited. The distance 14 from Tracy to Fresno via Lathrop and the Fresno Subdivision is approximately 123 miles, which 15 is the same as the 123 mile distance from Tracy to Fresno via the West Side Line. Given these distances are approximately the same, the difference in travel time would be nominal and this is 16 17 not expected to result in a substantial shift to use of the southerly route. At this moment, it is not 18 reasonably foreseeable that the number of freight trains will increase along the Oakland 19 subdivision from the Bay Area beyond that forecasted in the State Rail Plan due to the track 20 capacity constraints in Niles Canyon (single track and winding curves) and the Altamont Pass 21 (single track, elevated grade and winding curves) and the lack of any planned, programmed, and 22 funded improvements to the Oakland Subdivision east of Niles. It is possible that some of the 23 Bay Area freight routed via Niles and Tracy might use the West Side Line, but given the expense 24 (see below) it is hard to see a financial case for restoring the West Side Line, for little to no gain 25 in travel time.
- Local deliveries between Lathrop and Fresno. Local deliveries will still need to be made via the
   Fresno Subdivision as TRAC acknowledges.

28 As such, the EIR's statement that only "some" of the Fresno freight traffic would be re-routed to the 29 West Side Line is supported by substantial evidence since all of the current and projected Fresno 30 Subdivision freight will, in all likelihood, remain on the Fresno Subdivision even if the West Side 31 Line were available. Even if all of the Oakland Subdivision freight were to use a West Side Line 32 (which is not certain as the West Side Line is not shorter than the current route via the Fresno 33 Subdivision), the Fresno Subdivision freight level in 2040 is nearly 5 times the projected amount of 34 Oakland Subdivision freight from Tracy, and thus the Fresno Subdivision would remain in operation 35 to accommodate the majority of through freight operations to Fresno as well as local deliveries.

### 36 West Side Line Alternative Costs

- The comment states that upgrading existing track is less expensive than laying new track and asked
  that a preliminary order-of-magnitude cost estimate be prepared for the West Side Line.
- 39 Alternative OUT-1 would require upgrading of the track owned by UPRR from Tracy (Lyoth) to Los
- 40 Banos from the current Class 1 and 2 track rating (rated for 10 to 25 mph) to Class 4 standards
- 41 (freight 60 mph, like the Fresno Subdivision); construction of new track including construction in
- 42 0.5 miles of wetlands from Los Banos to Oxalis (and acquisition of ROW predominantly in
- 43 agricultural land); and upgrade of the track from Oxalis to Fresno (and acquisition of trackage rights
- 44 or purchase of the rail road from the San Joaquin Valley Railroad). A rough cost estimate was

- 1 developed for the final EIR for a new connector at Lyoth from the Oakland Subdivision to the West
- 2 Side Line, 103 miles of track upgrades, 20 miles of new track and ROW between Los Banos and
- 3 Oxalis, and new passing sidings every 20 miles (to allow two-way travel). Using these assumptions,
- 4 the track and ROW cost of re-establishing the West Side line is estimated as approximately \$735
- 5 million. This estimate does not include any estimate of the cost of purchasing or acquiring track
- 6 rights from the San Joaquin Valley Railroad. This cost is much higher than the \$477 million cost of 7 the second treads from Lethren to Manuel (could diag area station or leaves of sility costs) 1
- 7 the second track from Lathrop to Merced (excluding any station or layover facility costs).<sup>1</sup>
- 8 This information has been added to the EIR and reinforces the EIR's assessment of comparative cost.

### 9 West Side Line Alternative and ACE Service and Ridership

- 10 The comment states that Alternative OUT-1 offers the possibility of higher speeds and ridership 11 than the Proposed Project because interference with freight would be minimized. Higher speeds and
- 12 ridership hinge on the premise that most of the freight would be diverted to the West Side Line
- 13 and/or freight would operate outside of ACE service hours. As noted above, it is unlikely that most
- 14 freight would be diverted to the West Side Line; and thus unlikely that UPRR would agree to priority
- 15 for passenger service use of the Fresno subdivision between Lathrop and Merced. Since the
- 16 Proposed Project includes a second track along the Fresno subdivision, there will be opportunities
- 17 to schedule freight and passenger service to minimize, but not avoid, potential delays to ACE service.
- 18 Even if passenger train priority on a single line could be provided, the additional cost (see above)
- 19 and the remote possibility that UPRR would agree to this alternative (see above) mean that the
- 20 purported benefits of higher speed and ridership would not likely be realized.

### 21 West Side Line Alternative Funding

22 Finally, the comment states that the state should consider funding of Alternative OUT-1 up to a 23 similar amount expended on the proposed project's second track between Lathrop and Merced 24 (\$477 million) and that UPRR might provide the needed funds above that amount (additional \$258 25 million using the rough cost estimate above). UPRR has no intention to move its mainline (see above) and thus will not provide more than \$250 million in additional funding for a freight line that 26 27 is longer than the Fresno Subdivision for all of its traffic from Stockton and the same length as its 28 minor freight route from the Bay Area (via the Oakland Subdivision) and thus SJRRC would have to 29 fund the full cost of this Alternative.

### 30 MOCOCO Line Variant of the West Side Line Alternative

- 31 The TRAC NOP comment letter included a map that in addition to the West Side Line improvement
- 32 also notes "potential upgraded Union Pacific freight access to Ports of Oakland and Richmond" as
- applying to the MOCOCO line from Tracy to Port Chicago. Neither the TRAC NOP comment letter nor
- 34 the TRAC draft EIR comment letter says anything in text about the MOCOCO line upgrade and thus it
- 35 is unclear whether TRAC consider this an essential part of the West Side Line Alternative or not. The

<sup>&</sup>lt;sup>1</sup> In addition to the track upgrades, it is probable that Positive Train Control will need to be installed, as the PTC regulation requires the addition of PTC to any track that has passengers (which the West Side Line would not have) or toxic inhalation hazard (TIH) chemicals which can include chlorine, anhydrous ammonia and other industrial chemicals. As the intent of the West Side Line Alternative is to in essence made the West Side Line a freight main line to provide freight traffic relief to the Fresno Subdivision, it cannot preclude chemical transport, and thus PTC is expected. The estimated cost of adding PTC to the West Side Line would be an additional \$123 million (estimated as \$1 million per mile), which would be on top of the track upgrades noted above.

- draft EIR description of this alternative did not discuss upgrading the MOCOCO line and TRAC did
   not comment about the lack of the MOCOCO line in the draft EIR alternative description.
- A MOCOCO line upgrade variant to the West Side Line Alternative is analyzed in the final EIR, which
   would include a MOCOCO line upgrade in addition to reestablishment and upgrade of the West Side
   Line.

6 Freight from the Bay Area and Port of Oakland to and from Fresno via Martinez is currently routed 7 through Stockton and the Fresno Subdivision, a distance of 198 miles. This variant would allow 8 freight from the Bay Area and Port of Oakland to travel via Martinez, then to Port Chicago, then to 9 Tracy via the upgraded MOCOCO line, then the upgraded West Side Line to Fresno, a slightly longer 10 distance of 201 miles. According to the State Rail Plan (Caltrans 2018), approximately 10 trains (in 11 2013) currently travel on the BNSF line from Port Chicago to Stockton and freight is projected to 12 increase to 20 trains (by 2040). State Rail Plan states there is no current or projected freight use of 13 the MOCOCO line. It is not known how many of the 10 to 20 trains on the BNSF line to Stockton are 14 headed south from Stockton and how many of those use the UPRR Fresno Subdivision instead of the 15 BNSF line from Stockton to Fresno. Lacking such data, for the sake of an illustrative example for 16 2040, it is assumed that 10 trains (50%) go south in Stockton and of those 5 trains (50% of the 17 southward heading trains) go on the UPRR Fresno Subdivision to Fresno and points south. Given 18 these trains are using a BNSF line from the Bay Area, these assumptions are generous. These 19 assumed 5 trains would be out of the 40 trains using the Fresno Subdivision estimated by the State 20 Rail Plan in 2040. Even though the MOCOCO and West Side Line route is longer than the route via 21 Stockton and the Fresno Subdivision (201 miles versus 198 miles), for the sake of this analysis, it is 22 assumed that these 5 trains are UPRR trains and UPRR would choose to route them via an upgraded 23 MOCOCO line (owned by UPRR today), and the upgraded West Side Line to Fresno (owned in part by 24 UPRR and presumed to be fully owned or have trackage rights for non-owned part in the future). 25 Even if all of the Oakland Subdivision trains in 2040 (8, see above) use the West Side Line in addition 26 to these additional 5 trains, there would only be a total of 13 trains using the West Side line 27 compared to 35 trains using the Fresno Subdivision in 2040. As such, the EIR's conclusion remains 28 valid that only "some", and certainly not "most" of the Fresno Subdivision freight operations would 29 continue on the Fresno Subdivision even if the West Side Line were placed back into operation and 30 the MOCOCO line were upgraded. In that scenario, UPRR would still require a second track on the 31 Fresno Subdivision (like that in the Proposed Project) in order to provide additional passenger slots 32 for ACE.

The MOCOCO Line from Port Chicago to Tracy is rated Class 2 for up to 25 mph only. This variant would upgrade approximately 42 miles of the line between Port Chicago and Tracy to Class 4 standards (up to 60 mph freight) along with upgrading and restoring the 123 miles of the West Side Line between Tracy and Fresno. Using the same cost estimating methods as described above for the West Side Line, the MOCOCO line track upgrade would cost approximately \$206 million. These costs would be in addition to the costs for West Side Line upgrade, with total track improvement cost for this variant of approximately \$941 million.<sup>2</sup>

<sup>&</sup>lt;sup>2</sup> Using the same cost estimating methods as described above for the West Side Line, adding PTC to the MOCOCO line would cost an additional \$42 million. With PTC, the total for track improvements and PTC for both the West Side Line and the MOCOCO line would be \$1.1 billion.

#### 1 Environmental Impact

- 2 As shown above, there is no realistic scenario in which UPRR would divert most of its freight to the
- 3 West Side Line and not require SJRRC to construct a second track along the Fresno Subdivision prior
- 4 to allowing ACE service. Thus, if this alternative were advanced, it would include upgrading both the
- 5 West Side Line (and the MOCOCO upgrade in the variant) as well as constructing the Fresno
- 6 Subdivision second track. This would result in substantially more environmental impacts than the
- 7 Proposed Project.

## 8 Conclusion

- 9 For the reasons cited above, this alternative (the West Side Line Alternative and the MOCOCO Line
- 10 Variant of the West Line Alternative described above) is considered infeasible. As noted above,
- 11 UPRR will not consider a relocation of their main line from the Fresno Subdivision, so the West Side
- 12 Line, at best, would be an auxiliary line and would not provide priority for passenger service on the
- 13
   Fresno Subdivision. Furthermore, the additional cost compared to the Proposed Project of

   14
   Image: Additional cost compared to the Proposed Project of
- 14 upgrading the West Side Line (and the MOCOCO line in the variant) make this alternative cost-
- 15 prohibitive. Since there is no scenario in which the UPRR allows ACE to add passenger service to the
- Fresno Subdivision without constructing an additional track, if the West Side Line were upgraded,
   then the construction/upgrade along both lines would result in substantially higher construction
- 18 environmental impacts than the Proposed Project.
- Thus, due to logistical constraints with UPRR's approach to maintaining freight capacity, financial
   costs, and greater environmental impacts than the Proposed Project, this alternative was dismissed
   from further consideration.
- 22 The information above in this response has been added to the EIR.

# 3.1.13 Response to Comment Letter P1, Scoto Properties LLC & Scoto Brothers Farming, Inc.

## 25 **P1-1**

The comment identifies the potential impacts to agricultural production at three parcels due to
construction of the Merced Layover Facility, including greater area of impacts than identified in the
EIR; lack of accessibility to the parcels, which could result in unviable agricultural production; impacts
associated with changes in infrastructure to accommodate the layover facility, and impacts to/from
aesthetics, litter, and animals.

- 31 RESPONSE P1-1: The commenter identified concern that three of their properties would be directly 32 affected by the Merced Layover Facility (APNs 059-330-005, 059-330-028 and 059-030-041). Only 33 one of those parcels would be directly affected by the Merced Layover Facility (APN 059-330-028). 34 The commenter expressed concerns about the accuracy of the area of direct impacts to prime and 35 unique farmlands identified in the draft EIR. The impacts on prime and unique farmlands were 36 calculated using the most recent available data sources, as described in Section 4.2, Agricultural 37 Resources (page 4.2-11). Updated numbers will be provided in subsequent project-level analysis, if 38 there are any changes in the project design.
- 39 The commenter also identifies concerns about removed access to their properties (APNs 059-030-
- 40 041, 059-030-028, 059-030-029, 059-030-044, and 059-030-039). See response to comment 01-1

- 1 for a description of how access will be maintained to all parcels directly impacted by the **Merced**
- 2 **Layover Facility** and how the subsequent project-level environmental document will consider an
- 3 alternative layover facility. Access would also be maintained for those parcels not directly impacted
- 4 by the **Merced Layover Facility** because access would be maintained to Southern Pacific Avenue.

5 The commenter also expressed concerns about changes in infrastructure and impacts on aesthetics, 6 and from litter, crime and potential for vagrancy. Impact AG-10 in Section 4.2, *Agricultural Resources* 7 identifies that there would be potential impacts to infrastructure and that mitigation would be 8 implemented to reduce those impacts. These mitigation measures include relocation of irrigation 9 facility (Mitigation Measure AG-5.1) and coordination with utility providers (Mitigation Measure AG-9 facility and the factor of the factor of

- 5.2). Furthermore, the Merced Layover Facility would be surrounded by a fence, which would
   minimize access to the site and would minimize litter and associated aesthetic impacts. No
- 12 animals/pets would be allowed at the **Merced Layover Facility**.
- 13 No revisions to the EIR are required in regards to this comment.

## 14 **P1-2**

The comment expresses concern about increased flooding impacts due to construction of the Proposed
 Project, including removal of existing drainage systems.

17 RESPONSE P1-2: Currently there are stretches where the UPRR ROW and SR 99 ROW run parallel to
18 each other and share a drainage swale, typically within the UPRR ROW. Through the design process
19 of the Proposed Project, there will be coordination with UPRR and Caltrans to ensure that all
20 drainage issues are addressed either through modification, relocation, or replacement of drainage
21 infrastructure.

22 As indicated in Section 4.10, Hydrology and Water Quality (page 4.10-61, lines 25-27), Mitigation 23 Measure HYD-6.1 would apply to the **Merced Extension Alignment** and **Merced Layover Facility** 24 for operational flooding hazard impacts related to improvements within drainage courses and flood 25 zones. As indicated on page 4.10-42 (lines 4-25), Mitigation Measure HYD-6.1 requires that 26 proposed improvements within drainage courses and flood zones be analyzed using detailed 27 hydraulic evaluations to be completed during the next design phase of the improvements to ensure 28 that the improvements would not impede or redirect flood flows. If improvements could result in 29 any increase in offsite flooding conditions compared to existing conditions, project designs would be 30 modified to reduce the potential flooding impacts to be equivalent to the existing conditions. 31 Additionally, as indicated on page 4.10-65 (lines 27-29), Mitigation Measure HYD-8.1 would apply to 32 the Merced Extension Alignment and Merced Layover Facility for operational impacts on storm 33 drainage system capacity and associated flooding. As indicated on page 4.10-47 (lines 35-54) and 34 page 4.10-48 (lines 1-21), Mitigation Measure HYD-8.1 requires detailed hydraulic evaluations to be 35 completed during the next improvements design phase for improvements that include alteration of 36 drainage patterns, such as alteration and construction of trackside ditches, to ensure that the new 37 stormwater control infrastructure is appropriately designed so that runoff would not exceed the 38 capacity of storm drainage systems and result in flooding. If improvements could result in flooding, 39 modification of stormwater control designs or offsite storm drainage systems would be performed 40 to reduce and control runoff and potential for flooding. Implementation of Mitigation Measures 41 HYD-6.1 and HYD-8.1 would ensure that the Proposed Project would not increase the risk of 42 flooding by altering the existing drainage ditch in the vicinity of the Merced Extension Alignment 43 and Merced Layover Facility, along the existing UPRR tracks and SR 99.

ACE Extension Lathrop to Ceres/Merced Final EIR

1 No revisions to the draft EIR are necessary in regards to this comment.

## 2 **3.1.14** Response to Comment Letter P2, Terra Land Group, LLC

## 3 **P2-1**

4 The comment identifies concerns about cumulative flooding impacts in the urban and rural areas of
5 Manteca and/or Lathrop and the deficiencies in public utilities/service infrastructure serving the area.

- 6 RESPONSE P2-1: The introduction to Letter #1 of the comment letter indicates that Letter #1
- 7 focuses mainly on the subject of the potential for ACE Extension and the **Relocated**
- 8 **Lathrop/Manteca Station** alternative to contribute to cumulative flooding impacts in the urban and 9 rural areas of Manteca and/or Lathrop and the deficiencies in public utilities/service infrastructure
- serving the area. This comment does not include significant environmental issues, specific
- 11 comments, or questions about ACE Extension. Many of the comments in the comment letter are 12 related to other projects and not ACE Extension. We have reviewed the enclosures attached to t
- related to other projects and not ACE Extension. We have reviewed the enclosures attached to the
   comment letter, and the only enclosure that mentions ACE Extension is Enclosure 1 of Letter #2 of
   the comment letter, which is a selected list of letters sent from TLG which includes a letter dated
   January 30, 2018 to SIRRC titled "Re: Public Comments in Response to the ACE Extension Lathrop to
- Ceres/Merced Project Notice of Preparation of an EIR". This January 30, 2018 letter to SJRRC also
   does not have any comments or questions that raise significant environmental issues specific to ACE
   Extension; it only provides general comments regarding development within the floodplain and the
   need to examine any potential impacts related to San Joaquin River and tributary flows, and includes
   an enclosure which provides specific comments related to matters discussed in a December 19,
- 21 2017, Manteca City Council Meeting.
- 22 No revisions to the draft EIR are necessary pursuant to this comment.

## 23 **P2-2**

24 The comment identifies concerns regarding flooding impacts from projects other than ACE Extension.

RESPONSE P2-2: The comment includes specific comments and questions related to projects other
 than ACE Extension, and indicates that these other projects have not adequately considered
 potential cumulative flooding impacts. Because there are no significant environmental issues,
 specific comments, or questions about ACE Extension, the comments are noted. However, no

29 revisions to the draft EIR are necessary pursuant to this comment.

- The comment identifies concern about the adequacy of the cumulative impacts on floods, including
   considering the RD 17 flood protection project in the cumulative analysis.
- 33 RESPONSE P2-3: Based on maps provided in enclosures of the comment letter, the RD 17 dryland
- 34 cross levee and proposed levee extension is located over a mile away and up-gradient (with respect
- 35 to potential flood flow direction) from any of the proposed ACE Extension improvements. Therefore,
- 36 ACE Extension improvements would not have any effect on the RD 17 dryland cross levee
- 37 modification.

1 ACE Extension has fully evaluated and mitigated the potential for ACE Extension improvements to 2 contribute to cumulative flooding impacts. The evaluation of potential flooding impacts due to ACE 3 Extension improvements was performed by qualified experts, and as indicated in Section 4.10. 4 *Hydrology and Water Quality* (page 4.10-12, line 10 to page 4.10-13, line 2), the evaluation of 5 existing flooding conditions was based on the best available maps produced by the Federal 6 Emergency Management Agency and the California Department of Water Resources. As indicated on 7 page 4.10-41 (line 17) to page 4.10-42 (line 27), Mitigation Measure HYD-6.1 would apply to ACE 8 Extension improvements within drainage courses and/or flood zones and would ensure that the 9 improvements would not impede or redirect flood flows by requiring that the proposed 10 improvements be analyzed using detailed hydraulic evaluations during the next design phase of the 11 improvements. The detailed hydraulic evaluations will be based on the most current and best 12 available information regarding existing flooding hazards. If improvements could result in any 13 increase in offsite flooding conditions, compared to existing conditions, project designs would be 14 modified to reduce the potential flooding impacts to be equivalent to the existing conditions. 15 Additionally, as indicated on page 4.10-47 (line 3) to page 4.10-48 (line 21), Mitigation Measure 16 HYD-8.1 would apply to ACE Extension improvements that would alter drainage patterns, including 17 creating new paved surfaces or construction of new tracks, culverts, or bridges. Mitigation Measure 18 HYD-8.1 would ensure that the new stormwater control infrastructure is appropriately designed so 19 that runoff would not exceed the capacity of storm drainage systems and result in flooding by 20 requiring detailed hydraulic evaluations to be completed during the next design phase of the 21 improvements. The detailed hydraulic evaluations will be based on the most current and best 22 available information regarding existing stormwater drainage system capacity and existing flooding 23 hazards. If improvements could result in flooding, modification of stormwater control designs or 24 offsite storm drainage systems would be performed to reduce and control runoff and potential for 25 flooding.

26 No revisions to the draft EIR are necessary pursuant to this comment.

## 27 **P2-4**

- The comment identifies concerns about cumulative flooding impacts in the urban and rural areas of
   Manteca and/or Lathrop and the deficiencies in public utilities/service infrastructure serving the area.
- 30 RESPONSE P2-4: The introduction to Letter #2 of the comment letter indicates that Letter #2
- 31 focuses mainly on the subject of the potential for ACE Extension and the **Relocated**
- Lathrop/Manteca Station alternative to contribute to cumulative flooding impacts in the urban and
   rural areas of Manteca and/or Lathrop, the San Joaquin River levee structural problems, and channel
   flow deficiencies affecting the South Delta/Lower San Joaquin River Basin. See response to comment
- 35 P2-1 regarding how many of the comments in the comment letter are related to other projects and
- 36 not ACE Extension. No specific comments on the ACE Extension Lathrop to Ceres/Merced are
- 37 provided in this comment.
- 38 No revisions to the draft EIR are necessary pursuant to this comment.

- 40 The comment includes general comments regarding potential flooding and development in the
- 41 floodplain, and provides information regarding the study area for a different project.

- RESPONSE P2-5: The comment does not include any significant environmental issues, specific
   questions, or comments related to ACE Extension.
- 3 No revisions to the draft EIR are necessary pursuant to this comment.

- 5 The enclosure referenced in this comment includes specific comments and questions related to projects
- 6 other than ACE Extension, and includes general comments and questions regarding cumulative 7 flooding conditions in the San Joaquin Valley.
- 8 RESPONSE P2-6: See responses to comments P2-3 above and P2-16 below regarding how the EIR
- 9 considered cumulative flooding conditions and how implementation of Mitigation Measures would
- 10 mitigate the potential for ACE Extension to contribute to cumulative flooding hazards.
- 11 No revisions to the draft EIR are necessary pursuant to this comment.

## 12 **P2-7**

The comment includes comments and questions regarding previously observed flooding conditions and
 potential flooding conditions and flood control projects associated with the San Joaquin River and
 other drainage courses in the San Joaquin Valley.

- RESPONSE P2-7: The comment does not include any significant environmental issues, specific
   questions, or comments related to ACE Extension. The comment includes a question regarding
   improvements near Paradise Cut that were proposed and evaluated in the ACE*forward* draft EIR.
   The ACE*forward* draft EIR and improvements were rescinded and ACE Extension does not propose
   any improvements near Paradise Cut.
- 21 No revisions to the draft EIR are necessary pursuant to this comment.

- The comment identifies different floodplain management regulatory pathways for improvements
   within and outside of the UPRR ROW. The comment expresses concern about drainage impacts from
   the Oakland-Fresno Subdivision Connection.
- 26 RESPONSE P2-8: As indicated in Section 4.10, *Hydrology and Water Quality*, (4.10-2, line 32 to page 27 4.10-6, line 5), all ACE Extension construction activities would be subject to the requirements of the 28 Construction General Permit, and various ACE Extension improvements would be subject to various 29 other National Pollutant Discharge Elimination System (NPDES) permits (e.g., municipal stormwater permits and the Industrial General Permit) depending on the location and type of improvement. As 30 31 indicated on page 4.10-4 (lines 15-18), stormwater runoff from railroad track alignments within the 32 UPRR ROW is not actively regulated under municipal NPDES permits. See response to comment P2-33 3 for response to concerns regarding alteration of drainage by the **Oakland-Fresno Subdivision** Connection. 34
- 35 No revisions to the draft EIR are necessary pursuant to this comment.

2 The comment expresses concern regarding Project #8 depicted in Figure 5-2 of the draft EIR.

RESPONSE P2-9: Figure 5-2 depicts projects considered in the cumulative analysis. The commenter
 is referring to cumulative project #8, which is freight rail future plans. As described on page 5-16 of
 the draft EIR, this project entails the operational increase of freight on existing railroad lines and

- 6 there are no physical improvements associated with the operational increase. This cumulative
- project is not part of the ACE Extension; rather, it is a project considered for the cumulative context
- 8 and analysis. There is no track connection associated between ACE and the freight rail future plans.
- 9 The freight rail future plans would operate within the existing UPRR ROW.
- 10 No revisions to the draft EIR are necessary pursuant to this comment.

## 11 **P2-10**

The comment expresses concern about construction of the Proposed Project within floodplains and asks
 the difference in drainage impacts between improvements within and outside of the UPRR ROW.

- 14 RESPONSE P2-10: See response to comment P2-3 for concerns regarding improvements within
- 15 flood zones and drainage courses. As indicated in Section 4.10, *Hydrology and Water Quality* (page
- 16 4.10-4, lines 18-37), improvements outside of the UPRR ROW would create new paved surfaces.
- 17 Design and construction of stormwater controls would be implemented in accordance with 18 applicable municipal NPDES permit requirements, including hydromodification requirements to
- applicable municipal NPDES permit requirements, including hydromodification requirements to
   maintain predevelopment runoff rates and volumes. Stormwater controls within the UPRR ROW
- 20 would be designed and constructed in accordance with the California Department of
- 21 Transportation's Project Planning and Design Guide (PPDG) and would be required to comply with
- the post-construction stormwater performance standards of the Construction General Permit to
- 23 ensure that runoff from station platforms would match existing runoff conditions. Potential
- flooding/drainage impacts evaluated in the draft EIR were determined to be less than significant for
- 25 ACE Extension improvements both within and outside of the UPRR ROW. This is because the
- 26 mitigation measures requiring detailed hydraulic evaluations and modification of the ACE Extension 27 improvement to mitigate potential flooding/drainage impacts (see Response to comment P2-3)
- improvement to mitigate potential flooding/drainage impacts (see Response to comment P2-3)
  would apply to improvements within and outside of the UPRR ROW.
- 29 No revisions to the draft EIR are necessary pursuant to this comment.

- 31 The comment asks about drainage impacts on the San Joaquin River and Paradise Cut.
- RESPONSE P2-11: There are no ACE Extension improvements near or crossing the San Joaquin River
   or Paradise Cut.
- 34 No revisions to the draft EIR are necessary pursuant to this comment.

- The comment identifies concern about the capacity for the San Joaquin River and its tributaries to
  handle future flows.
- 4 RESPONSE P2-12: See response to comment P2-3 above for concerns regarding improvements
   5 within flood zones and drainage courses.
- 6 No revisions to the draft EIR are necessary pursuant to this comment.

### 7 **P2-13**

- 8 The comment is an excerpt from the ACE Extension Draft EIR.
- 9 RESPONSE P2-13: There are no specific comments or question is included in the comment.
- 10 No revisions to the draft EIR are necessary pursuant to this comment.

### 11 **P2-14**

- 12 The comment identifies concern about the adequacy of the cumulative impacts on floods, including 13 considering the RD 17 flood protection project in the cumulative analysis.
- 14 RESPONSE P2-14: See response to comment P2-3 above.

### 15 **P2-15**

- 16 The comment summarizes the draft EIR approach of performing project and program level analyses for 17 Phase I and Phase II improvements, respectively.
- 18 RESPONSE P2-15: There are no specific comments or question included in the comment.
- 19 No revisions to the draft EIR are necessary pursuant to this comment.

### 20 **P2-16**

The comment expresses concern about the significance of flood impacts and mitigation identified in the
 draft EIR.

RESPONSE P2-16: The draft EIR included a full cumulative analysis of potential impacts related to drainage and flooding in Section 5.1.4.11, *Hydrology and Water Ouality* (page 5-46, line 39 to page 5-

47, line 35). See response to comment P2-3 above, which explains how ACE Extension would

26 mitigate the potential for contributing to flooding hazards. If the RD 17 levee flood protection

- infrastructure is not yet clearly identified and presented to the public, the RD 17 levee project is still
- 28 speculative in nature. A cumulative analysis is not required to account for speculative projects. See
- 29 response to comment P2-3 above regarding how ACE Extension would not impact the RD 17 levee
- 30 modification project based on the location of the RD 17 levee modification project as presented in
- 31 the enclosures to the comment letter.
- 32 No revisions to the draft EIR are necessary pursuant to this comment.

The comment addresses concern about the adequacy of mitigation identified in the draft EIR to
 mitigate flood impacts.

RESPONSE P2-17: This comment does not provide any specific explanation as to why the
commenter believes the mitigation measures referenced in this comment are inadequate for
addressing potential flooding impacts. The mitigation measures were developed by experts that
evaluated potential flooding impacts based on the best available information regarding existing
drainage and flooding conditions, existing regulations related to drainage and flooding, and the
proposed designs of ACE Extension improvements. The mitigation measures referenced in this
comment include performance measures to ensure that they effectively mitigate potential drainage

- 11 and flooding hazards.
- 12 No revisions to the draft EIR are necessary pursuant to this comment.

## 13 **P2-18**

- The comment identifies past, present, and reasonably foreseeable projects that the commenter believes
   should be considered in analysis.
- 16 RESPONSE P2-18: While other projects identified by the commenter may have the potential to
   17 contribute to a cumulative flooding condition, the ACE Extension project would not make a
   18 cumulatively considerable contribution to the cumulative flooding conditions. Implementation of
   19 the ACE Extension would mitigate the potential to contribute to flooding hazards, according to the
- 20 best available information, as discussed in responses to comments P2-3 and P2-16 above.
- 21 No revisions to the draft EIR are necessary pursuant to this comment.

### 22 **P2-19**

- 23 The comment is an excerpt from the ACE Extension draft EIR.
- RESPONSE P2-19: There are no significant environmental issues, specific comments, or questionsincluded in the comment.
- 26 No revisions to the draft EIR are necessary pursuant to this comment.

- 28 The comment expresses concern about the cumulative flooding impacts from ACE Extension.
- 29 RESPONSE P2-20: It is not the responsibility of ACE Extension to fix an existing cumulative flooding
- 30 hazard or potential increases in cumulative flooding hazards created by other projects. As discussed
- 31 in the response to comment P2-18 above, ACE Extension would mitigate the potential for ACE
- 32 Extension to contribute to flooding hazards.
- 33 No revisions to the draft EIR are necessary pursuant to this comment.

# 3.1.15 Response to Comment Letter P3, Union Pacific Rail Road

## 3 **P3-1**

The comment identifies UPRR as the owner of the rail network and that UPRR will continue to
coordinate with SJRCC regarding infrastructure and compensation required to expand passenger rail
service.

RESPONSE P3-1: This comment is noted. The comment does not raise any significant environmental
issues or specific comments about the adequacy of the EIR analysis and thus no response is
required. If the project is approved, SJRRC will continue to work with UPRR in good faith to
determine the infrastructure needed to address capacity issues and any other UPRR concerns in
order for ACE to extend service to Ceres and eventually to Merced.

## 12 **3.1.16** Response to Comment Letter **11**, Albert Cresci

13 **I1-1** 

The comment expresses concern about the loss of access to the commenter's property due to the
 Merced Layover Facility. The comment also expresses concern about financial loss due to the Merced
 Layover Facility.

17 RESPONSE I1-1: The commenter identified that their property is located on 1811 North Southern

18 Pacific Avenue. This property is located on one of the parcels identified as being directly impacted

19 by the **Merced Layover Facility** (APN 059-330-027). Although the draft EIR does identify that this

20 parcel would be potentially affected through the direct removal of agricultural lands, the draft EIR

21 also identifies that an alternative layover facility east of SR 99 is being considered that would avoid

impacts to this agricultural land. See response to comment 01-1 on how the subsequent project level environmental document will consider an alternative layover facility in further detail in the

subsequent project-level CEQA document. Response to comment O1-1 also identifies how access will
 be maintained to all parcels directly impacted by the Merced Layover Facility. If any properties are
 acquired for construction of the Merced Layover Facility, compensation for those properties would

- 27 be conducted based on state regulations, which require payment at fair-market value.
- 28 No revisions to the draft EIR are necessary pursuant to this comment.

## 29 **3.1.17** Response to Comment Letter I2, Hoang-An Doan

- 30 **I2-1**
- 31 The comment expresses support of the Proposed Project.
- 32 RESPONSE I2-1: Comment noted. Hong-An Doan's support of the Proposed Project is noted.

## **3.1.18** Response to Comment Letter I3, Mark Jacops

- 2 **I3-1**
- 3 The comment expresses support of the Proposed Project.
- 4 RESPONSE I3-1: Comment noted. Mark Jacops' support of the Proposed Project is noted.

## 5 **3.1.19** Response to Comment Letter I4, Brad Johnson

#### 6 **I4-1**

7 The commenter expresses concern regarding potential radio interferences.

8 RESPONSE I4-1: The ACE Extension would utilize the existing UPRR ROW where track signaling and 9 crossing equipment currently are in place for the regulation of freight traffic. The addition of a new 10 main track within the UPRR ROW would not result in additional radio interferences that would 11 substantially interrupt fire/police radio over baseline conditions. No revisions to the draft EIR are 12 necessary.

**3.1.20** Response to Comment Letter I5, Linda Johnson

#### 14 **I5-1**

- 15 The comment provides recommendations for improvements to the existing ACE service.
- 16 RESPONSE I5-1: These recommendations have been forwarded to the appropriate ACE staff. ACE
- 17 welcomes feedback and comments can be submitted through the ACE website
- 18 (www.acerail.com/Contact/Contact-ACE) or by calling 1-800-411-RAIL (7245). The comment does
- 19 not identify any specific issues related to the adequacy of the analysis provided in the draft EIR; no
- 20 further response is required.

## **3.1.21** Response to Comment Letter I6, Frank McHugh

- 22 **I6-1**
- 23 The comment expresses support of the Proposed Project.
- 24 RESPONSE I6-1: Comment noted. Frank McHugh's support of the Proposed Project is noted.

## 25 **3.1.22** Response to Comment Letter 17, Richard Meissner

- 26 **I7-1**
- 27 The comment expresses support of the Proposed Project.
- 28 RESPONSE I7-1: Comment noted. Richard Meissner's support of the Proposed Project is noted.

## 1 **I7-2**

2 The comment expresses support of exploring the possibility of an ACE Station in Salida.

RESPONSE I7-2: As described in Chapter 6, *Alternatives*, of the draft EIR, a Salida station was
 considered. While there would be some conveniences to some individuals as the commenter noted,

5 the additional station stop between Modesto and Ripon would add travel time for riders from

- 6 Modesto and Ceres and ultimately Turlock, Livingston/Atwater, and Merced. In addition, a Salida
- 7 station would not avoid any significant adverse environmental impact of the Proposed Project.
- 8 Given the tradeoffs, a Salida station was dismissed from further consideration as the gain in local
- 9 ridership that may occur would come at the certain loss of ridership from Modesto southward.
- 10 No revisions to the draft EIR are necessary pursuant to this comment.

## 11 **I7-3**

12 The comment identifies the need for media outlets to provide accurate information about ACE.

RESPONSE I7-3: ACE staff will continue to coordinate with media outlets to provide information and
 updates on ACE service. This recommendation has been forwarded to the appropriate ACE staff. ACE

15 welcomes feedback and comments can be submitted through the ACE website

(www.acerail.com/Contact/ Contact-ACE) or by calling 1-800-411-RAIL (7245). The comment does
 not identify any specific issues related to the adequacy of the analysis provided in the draft EIR; no
 further response is required.

# **3.1.23** Response to Comment Letter I8, Frank and Christine Mendes

21 **I8-1** 

22 The commenter expresses opposition to the **Relocated Lathrop/Manteca Station**.

RESPONSE I8-1: The commenter's opposition to the Relocated Lathrop/Manteca Station is noted.
 As described in Chapter 2, *Description of Phase I improvements*, the Proposed Project identifies two
 stations in the Lathrop area consisting of the Existing Lathrop/Manteca Station and a new North
 Lathrop Station. The Relocated Lathrop/Manteca Station is an alternative that is being
 considered. The commenter's property located at 18401 McKinley Avenue is north of the proposed
 Relocated Lathrop/Manteca Station. The proposed undercrossing mentioned in the comment may

- refer to the McKinley Avenue grade separation project, which is not an improvement that is part of
   the ACE Extension or being pursued by SJRRC at this time. This comment does not concern the
- 31 adequacy of the EIR.
- 32 No revisions to the draft EIR are necessary pursuant to this comment.

## **33 3.1.24 Response to Comment Letter I9, Kevin Moss**

- 34 **I9-1**
- The commenter expresses preference for the Existing Lathrop/Manteca Station in lieu of the North
   Lathrop Station.

- 1 RESPONSE I9-1: The commenter's preference for the **Existing Lathrop/Manteca Station**, instead of
- 2 the **North Lathrop Station**, is noted. As described in Chapter 2, *Description of Phase I improvements*,
- 3 the Proposed Project identifies two stations in the Lathrop area consisting of the **Existing**
- 4 **Lathrop/Manteca Station** and a new **North Lathrop Station**. If the Proposed Project is
- 5 implemented, the **Existing Lathrop/Manteca Station** would remain in service. Additionally, the
- 6 Proposed Project also entails a new **Downtown Manteca Station** to be constructed along the
- 7 extension to Ceres. The **Downtown Manteca Station** would be constructed at the existing Manteca
- 8 Transit Center located at 220 Moffat Boulevard and provide for a second station in Manteca. This
- 9 comment does not concern the adequacy of the EIR.
- 10 No revisions to the draft EIR are necessary pursuant to this comment.

## **3.1.25** Response to Comment Letter **110**, Sandra Moss

- 12 **I10-1**
- The commenter expresses preference for the Existing Lathrop/Manteca Station in lieu of the North
   Lathrop Station.
- 15 RESPONSE I10-1: Please see response to comment I9-1.

## 16 **3.1.26** Response to Comment Letter I11, Kenneth Sacca

- 17 **I11-1**
- 18 The comment provides recommendations for improvements to the existing ACE service.
- 19 RESPONSE I11-1: These recommendations have been forwarded to the appropriate ACE staff. ACE
- 20 welcomes feedback and comments can be submitted through the ACE website
- 21 (www.acerail.com/Contact/Contact-ACE) or by calling 1-800-411-RAIL (7245). The comment does
- not identify any specific issues related to the adequacy of the analysis provided in the draft EIR; no
- 23 further response is required.

## 24 **3.1.27** Response to Comment Letter I12, Adam Serpa

- 25 **I12-1**
- 26 The comment expresses support of the Proposed Project.
- 27 RESPONSE I12-1: Comment noted. Adam Serpa's support of the Proposed Project is noted.

## 28 **3.1.28** Response to Comment Letter I13, Chris Stai

## 29 **I13-1**

- The comment poses the question whether ACE will consider having multiple trains go from Ceres
   through to San Jose directly.
- RESPONSE I13-1: As described in Chapter 2, *Description of Phase I Improvements*, the draft EIR
   considered two operating scenarios: 1) four trains from Ceres to Lathrop with transfer to the

- 1 Stockton to San Jose trains; and 2) three trains from Ceres to Lathrop with transfer to the Stockton
- 2 to San Jose trains and one direct train from Ceres to San Jose without transfers. Based on the
- 3 ridership studies conducted to date, these operating scenario options capture the likely future
- operating scenario. However, if it is advantageous to run more direct trains from Ceres to San Jose
   and less trains from Stockton to San Jose, then ACE could also consider that. Under CEQA, changes in
- 6 train service and frequency is statutorily exempt, which allows rail operators to optimize train
- 7 service without having to go through CEQA review.

1	Chapter 4
2	Text Revisions to the Draft EIR
3 4 5 6	This chapter includes revisions to the draft EIR by errata as allowed by CEQA. The revisions are presented in the order as they appear in the draft EIR, with the relevant page number(s) indicated in italicized print. New or revised text is shown with <u>underline</u> for additions and <del>strikeout</del> for deletions.
7 8 9 10	All text revisions are provided for clarification or additional detail. After considering all comments received on the draft EIR, the lead agency has determined that the changes do not result in a need to recirculate the draft EIR. Per Section 15088.5(a) of the CEQA Guidelines, recirculation is required when new significant information identifies:
11 12	• A new significant environmental impact would result from the project or from a new mitigation measure proposed to be implemented;
13 14	• A substantial increase in the severity of an environmental impact would result unless mitigation measures are adopted that reduce the impact to a level of insignificance;
15 16 17	• A feasible project alternative or mitigation measure considerably different from others previously analyzed would clearly lessen the significant environmental impacts of the project, but the project's proponents decline to adopt it;
18 19	• The draft EIR was so fundamentally and basically inadequate and conclusory in nature that meaningful public review and comment were precluded.
20 21 22	Recirculation of the draft EIR is not required where the new information merely clarifies, amplified, or makes minor modifications to an adequate EIR (CEQA Guidelines Section 15088.5(b)). The information provided below meets those criteria.

# 23 Global Text Changes

24 The draft EIR references Mitigation Measure AQ-2.5: Implement fugitive dust controls; however, this

25 mitigation will not be required because the Proposed Project would comply with SJVAPCD

26 Regulation VIII, which includes requirements to control fugitive dust emissions, as described in

- 27 Section 4.3, *Air Quality*. Thus references to Mitigation Measure AQ-2.5 are deleted from the following
- 28 sections in the EIR: Section ES, *Executive Summary*; Section 4.1, *Aesthetics*; Section 4.9, *Hazardous*
- 29 *Materials*; Section 4.15, *Recreation*; Chapter 5, *Other CEQA-Required Analysis*. These text revisions
- 30 are made for clarification purposes and do not alter the conclusions of the EIR.

## 31 **Executive Summary**

- 32 The changes to Mitigation Measures MM-BIO-4.2, MM-BIO-7, MM-CUL-2.4, MM-CUL-2.5, MM-NOI-
- 33 2.1, and MM-USS-1 described below in relation to changes to Section 4.4, *Biological Resources*,
- 34 Section 4.5, *Cultural Resources*, Section 4.12, *Noise and Vibration*, and Section 4.18, *Utilities and*
- 35 *Service Systems*, are also made to Table ES-5, starting on Page ES-31, accordingly.

## **1** Chapter 2, Description of Phase I Improvements

The text on Page 2-20 (Lines 21 to 27), in Chapter 2, *Description of Phase I Improvements*, is modified
as follows:

4 The Ceres to Merced segment is located in the central portion of Stanislaus County and the 5 eastern portion of Merced County. ACE currently does not operate passenger rail services in this 6 segment. As part of Phase I improvements, a bus bridge would operate between Merced and 7 Ceres, with stops in Livingston, Atwater, and Turlock. SJRRC will coordinate with the Merced 8 County Association of Governments (MCAG) is anticipated to operate this bus service and SIRRC, 9 the Transit Joint Powers Authority, Merced Transportation Center (Transpo), cities along the 10 bus route, and others would work with MCAG to develop operational plans to identify an 11 operating entity, funding for operations, charging infrastructure location and operation, bus stop locations. Transpo operation capacity and fare system. Electric buses would be utilized for 12 13 this service. This bus bridge would operate from the initiation of ACE service to Ceres until the 14 ACE Extension to Merced is complete.

15The text in Section 2.4.4.1 on Page 2-27 (Line 22) to Page 2-28 (Line 4), in Chapter 2, Description of16Phase I Improvements, is revised as follows:

## 17 **2.4.4.1 Track Maintenance**

18 SJRRC does not own the tracks on which ACE operates; instead, SJRRC has entered into trackage 19 rights agreements with host railroads (both PCJPB and UPRR) to operate on portions of their 20 respective tracks. Maintenance of way (MOW) is the responsibility of the host railroad. In 21 general, MOW is the ongoing maintenance of track (e.g., tie replacement, switch greasing, ballast 22 recontouring), track structures, bridges, drainage features, signal apparatus and other signal 23 infrastructure. Maintenance activities are both ongoing responses to daily issues and planned 24 preventive maintenance. Maintenance of bridges would include routine removal of woody 25 debris, sediment, and other materials that accumulate near the piers of the bridges. Depending 26 on the corridor, host railroads would have other maintenance activities that are required, 27 specific to the features located in the corridor.

The text in Section 2.5.1.2 from Page 2-29 (Line 24) to 2-30 (Line 13), in Chapter 2, *Description of Phase I Improvements* is revised as follows:

## 30 Bridges, Underpasses, and Overpasses

31Track work would also involve the construction of track-supporting structures, such as new32bridges (track over waterway) and modifications to existing at-grade crossings and grade33separation structures such as overheads (roadway over the rail).

## 34 Bridges over Waterways

The typical bridge (track over waterway) shown in the preliminary engineering plans consists of a combination of short spans supported on driven steel H-pile bents with precast concrete bent caps. Structures that require longer spans to avoid obstacles or provide adequate opening to pass design flows would likely be supported on cast-in-place reinforced concrete (RC) pier caps and columns extended from RC cast-in-drilled-hole pile shafts. The short spans consist of either precast concrete slab beams or double-cell box girders, and the longer spans would typically

- consist of either single-cell precast concrete box girders, steel-plate girders, steel-plate through girders, or a steel through-truss.
- 3 The installation of the bridge over the Stanislaus River would require four cast in place drilled 4 (CIDH) piles and one abutment, as summarized in Table 2-6a. The installation of the bridge over 5 the Tuolumne River would require four CIDH piles, as summarized in Table 2-6b. Construction 6 will include installation of a casing that will extend about 20-feet into the ground. The top of the 7 casing will be above water level. The casing for the piles would be installed using the vibration 8 method and the abutment would be installed using pile driving. There may be some local 9 dewatering of the casing prior to drilling; however, the construction method would be slurry 10 displacement, which would eliminate the need for dewatering during construction. This method uses a slurry in the hole during drilling and concrete pours, which keeps the water out. As the 11 12 final concrete is poured, the concrete is heavier than the slurry, and the slurry is removed at the 13 top of the hole as concrete fills the bottom. The portion of the casing above the pile will be 14 removed once the column is poured.
- 15The permanent impact from installation of the bridges would be 50 square feet per pile and 40016square feet per abutment. As shown in Table 2-6a, only one pile would be placed within the17water of the Stanislaus River; therefore, construction of the bridge over the Stanislaus River18would result in a permanent impact in the river of 50 square feet. As shown in Table 2-6b, only19two piles would be placed within the water of the Tuolumne River; therefore, construction of20the bridge over the Tuolumne River would result in a permanent impact of 100 square feet in21the river.
- Pile driving would be required for the installation of the abutment for the bridge over the
   Stanislaus River. Pile driving will occur on land and would entail a total of 10 piles, 5 piles
   installed per day, 500 strikes per pile, and a 5 second interval between strikes.
- 25

#### Table 2-6a. Construction Details for the Bridge over the Stanislaus River

<u>No.</u>	<u>Pile type</u>	<u>On Land or In</u> <u>Water?</u>	<u>Installation</u> <u>Method</u>	<u>Distance from</u> <u>water's edge</u>	<u>Days of</u> construction
<u>1</u>	96-inch CIDH pile	Land	<u>Vibration</u>	<u>120-feet</u>	<u>6 days</u>
<u>2</u>	96-inch CIDH pile	Land	<u>Vibration</u>	<u>60-feet</u>	<u>6 days</u>
<u>3</u>	96-inch CIDH pile	Land	<u>Vibration</u>	<u>10-feet</u>	<u>6 days</u>
<u>4</u>	<u>96-inch CIDH pile</u>	Water	<u>Vibration</u>	<u>N/A</u>	<u>6 days</u>
<u>5</u>	<u>Abutment</u>	Land	<u>Pile Driving</u>	<u>65-feet</u>	<u>2 days</u>

26

27

#### Table 2-6b. Construction Details for the Bridge over the Tuolumne River

<u>No.</u>	<u>Pile type</u>	<u>On Land or In</u> <u>Water?</u>	<u>Installation</u> <u>Method</u>	<u>Distance from</u> <u>water's edge</u>	<u>Days of</u> construction
<u>1</u>	<u>96-inch CIDH pile</u>	<u>Land</u>	<u>Vibration</u>	<u>100-feet</u>	<u>6 days</u>
<u>2</u>	96-inch CIDH pile	<u>Land</u>	<u>Vibration</u>	<u>50-feet</u>	<u>6 days</u>
<u>3</u>	96-inch CIDH pile	<u>Water</u>	<u>Vibration</u>	<u>N/A</u>	<u>6 days</u>
<u>4</u>	<u>96-inch CIDH pile</u>	<u>Water</u>	<u>Vibration</u>	<u>N/A</u>	<u>6 days</u>

28

- 1Abutment and pier foundations outside the waterway are typically accessed by temporary dirt2roads with the construction equipment working in a temporary construction easement that3extends about 50 feet from the edges of the bridge deck on both sides. Wherever possible the4main waterway is crossed by a single span placed by cranes operating on both banks reaching5out and passing the girders across, with the new pier foundations located just outside of the6anticipated waterway.
- 7 Pier foundations within the waterway may be accessed from the ground by pushing clean fill 8 into the waterway on top of temporary pipe culverts or narrowing or diverting the waterway, 9 then restoring the original condition when done. For the standard railroad trestle consisting of 10 short spans on H-pile bents, it is possible to construct in a top-down, span-by-span process with 11 a crane on the back span reaching out to build the next pier and place the next span. The reach 12 and lifting capacity of the crane limits the feasibility of the span-by-span top-down method for 13 longer spans. An alternative way of accessing pier foundations in the waterway is to build a 14 temporary work trestle bridge from which the construction equipment can work. The 15 temporary work trestle would include installation of two platforms located on both banks of the 16 river. A steel cap and stringers are installed and timber crane mats are used for the surface. The 17 temporary work trestle would be used to support equipment that would install the piers located 18 within the water. Thus, no equipment would be located within the water itself and no damming 19 or blocking of the water would occur because work would occur from the temporary work 20 trestle on the banks of the river. A temporary work trestle would require the installation of 18-21 to 24-inch steel pipe piles, including some that would be located within the water. These piles 22 would be installed using a vibratory hammer. These piles, along with the trestle would be pulled out once construction is completed. Thus, the only temporary impact to the Stanislaus and 23 24 Tuolumne River would be from the installation of these temporary piles within the water. The 25 estimated surface area of the temporary work trestle over Stanislaus River is 5,000 square feet 26 and the estimated surface area of the temporary work trestle over Tuolumne River is 6,000 27 square feet. The temporary impact to the Stanislaus River and the Tuolumne River is 28 conservatively estimated to be 5,000 square feet and 6,000 square feet, respectively. The actual 29 impacts to these rivers would be lower because the temporary impact area would be limited to 30 the areas where the piles would be installed within the water for the construction of the 31 temporary work trestle. No dewatering would be required for the installation of a temporary 32 work trestle.

## 33 Table 2-7 on Page 2-32 in Chapter 2, *Description of Phase I Improvements* is revised as follows:

34 Table 2-7. Construction Durations for Phase I Improvements

Phase I Improvement	<b>Construction Duration (months)</b>			
Lathrop to Ceres				
Lathrop station options				
Relocated Lathrop/Manteca Station	16			
Existing Lathrop/Manteca Station	14			
North Lathrop Station	20			
Ceres extension improvements				
Oakland-Fresno Subdivision Connection	8			
Ceres Extension Alignment	42			
Alignment trackwork/signaling	18			

Phase I Improvement	<b>Construction Duration (months)</b>
Bridges	<del>26</del> <u>36</u>
Ceres Layover Facility (variant 1 or 2)	24
Downtown Manteca Station	10
Ripon Station	20
Modesto Station	10
Ceres Station	12
Ceres to Merced	
Merced Bus Stop	3

1

able 2-12 on Page 2-38, in Chapter 2, <i>Description of Phase I Improvements</i> is modified as follows:	

Agency	Funding, Approval, or Permit			
<b>Regional Agencies and Transportation</b>	on Agencies			
San Joaquin Regional Rail Commission (SJRRC)	Certification of CEQA environmental document; project proponent; project funding			
San Joaquin Council of Governments	Funding coordination			
Stanislaus Council of Governments	Funding coordination			
Central Valley Flood Protection Board	Encroachment Permit			

## 2 Chapter 3, Description of Phase II Improvements

3

Table 3-7 on Page 3-29, in Chapter 3, Description of Phase II Improvements is modified as follows:

Agency	Funding, Approval, or Permit				
Regional Agencies and Transportation Agencies					
San Joaquin Regional Rail Commission (SJRRC)	Certification of CEQA environmental document; project proponent; project funding				
San Joaquin Council of Governments	Funding coordination				
Stanislaus Council of Governments	Funding coordination				
Merced Council of Governments	Funding coordination				
Central Valley Flood Protection Board	Encroachment Permit				

## 4 Section 4.2, Agricultural Resources

The second bullet under subheading Section 4.2.3, Environmental Setting on Page 4.2-5 has been
revised as follows:

7 8

9

- Local jurisdiction general plans (City of Atwater 2000; City of Ceres 1997; City of Lathrop 1991; City of Livingston <u>1999</u> <del>2008</del>; City of Manteca 2003; City of Merced 2012; City of Modesto 2008; City of Ripon 2006; City of Turlock 2012; Merced County 2013a, 2013b; Merced County
- 10 Association of Governments 2014; San Joaquin County 2005; Stanislaus County 2016a, 2016b).

## 1 Section 4.4, Biological Resources

- 2 The text on Page 4.4-27 (Lines 11 to 15), in Section 4.4, *Biological Resources* is revised as follows: 3 *Direct impacts* on biological resources are those that take place within the environmental 4 footprint of the ACE Extension improvement. Indirect impacts on biological resources differ 5 based on resource type and include impacts that are temporally or spatially separated from 6 direct impacts. Indirect impacts are expected to occur within the environmental footprint of the 7 ACE Extension improvement as well as within the resource-specific buffers as defined in Section 8 4.4.3. 9 Thresholds for Special-Status Fish Noise Impacts due to Pile Driving The assessment of impacts on special-status fish species due to noise from pile driving was 10 11 based on consideration of specific noise thresholds and ambient noise levels. 12 Noise, vibrations, and other physical disturbances can harass fish, disrupt or delay normal 13 activities, or cause injury or mortality. In fish, the hearing structures and swim bladder and 14 surrounding tissues are particularly vulnerable to high-pressure sounds (Popper et al 2006). The 15 type and severity of effects depends on several factors, including the intensity and characteristics 16 of the sound, the distance of the fish from the source, the timing of actions relative to the 17 occurrence of sensitive life stages, and the frequency and duration of the noise-generating 18 activities. The range of effects includes physical injury (including hearing loss), stress, mortality, 19 and behavioral effects. Pile driving could harm fish because of the underwater noise it produces. 20 Sound levels from project-related impact pile driving in or near open water often have the 21 intensity to injure or kill fish within a certain radius. These high sound-pressure levels can 22 rupture the swim bladder and damage other sensitive tissues and organs. Noise from project-23 related pile driving can also damage hearing organs, which can temporarily affect hearing 24 sensitivity, communication, and the ability to detect predators or prey. Pile driving can also 25 produce continuous lower-energy sounds, below the thresholds associated with direct injury, 26 that cause behavioral effects (e.g., startle or avoidance responses) as well as temporary hearing 27 loss or physiological stress, depending on the duration of exposure. 28 Since 2000, transportation agencies, resource agencies, ports, and other entities have been 29 developing criteria for determining impacts and appropriate mitigation measures to protect fish 30 from substantial harm due to underwater pile-driving sounds. In 2004, the California 31 Department of Transportation (Caltrans) established a Fisheries Hydroacoustic Working Group 32 (FHWG) to facilitate the development of interim criteria, based on best available scientific 33 information. The FHWG includes participants from Caltrans, the Washington Department of Transportation, Oregon Department of Transportation, NMFS, USFWS, CDFW, and USACE. The 34 35 FHWG is supported by a panel of hydroacoustic and fisheries experts and overseen by a steering 36 committee composed of managers with decision-making authority from each of the members' 37 organizations. 38 In June 2008, member agencies of the FHWG agreed in principle to interim criteria for assessing 39 injuries to fish from underwater sound pressure caused by in-water use of an impact hammer. 40 The criteria identified thresholds, both for the peak sound-pressure level (i.e., the largest 41 absolute value of instantaneous sound pressure) and the cumulative sound exposure level (SEL)
- 42 (i.e., the sum of acoustical energy over all pile strikes), for the onset of physical injury to fish.

- 1 Different cumulative SELs are established for fish that are greater than or equal to 2 grams and 2 fish that are less than 2 grams. This is because smaller fish are more susceptible to injury. 3 Physical injury to fish is expected if either of these thresholds is exceeded. The FHWG thresholds 4
  - for peak noise levels and accumulated sound levels are identified in Table 4.4-3a.

#### 5 Table 4.4-3a. Summary of Impact Pile Driving Noise Thresholds for Fish

Peak Noise Level Injury Evaluation	
Injury Threshold (dB)	<u>206 dB</u>
Peak Noise Level Injury Evaluation	
Injury Thresholds (Cumulative SEL)	<u>Fish ≥ 2 g (187 dB): Fish &lt; 2 g (183 dB)</u>
Peak Noise Level Injury Evaluation	
<u>NMFS Threshold (RMS)</u>	<u>150 dB</u>
Upper Range of Background levels	<u>160 dB</u>
Source: Caltrans 2005	

6

7 The injury thresholds criteria above are not considered appropriate for assessing the effects of 8 project-related vibratory pile driving. Vibratory hammers generally produce less sound than 9 impact hammers because they generally produce continuous and lower-intensity sound that is 10 below the levels known to cause injury in fish. Vibratory drivers are often included in mitigation measures to reduce the adverse effects on fish that result from impact pile driving. There are no 11 12 established injury criteria for fish related to vibratory pile driving, and resource agencies in 13 general are not concerned about vibratory pile driving resulting in adverse effects on fish. 14 (Caltrans 2015).

15 Little is known about how pile driving and other sources of human-generated noise actually 16 affect behavior in fish. However, it is thought that underwater noise may disrupt or alter 17 essential behavior or activities (e.g., migration, feeding, sheltering) and affect a fish's ability to grow, survive, or reproduce (Caltrans 2015). NMFS recommends a separate threshold of 150 dB 18 19 RMS for the behavioral effects of listed salmonids when evaluating impact pile driving (Caltrans 20 2015). However, there is no scientific support for this criterion or evidence to determine its 21 applicability to particular species.

22 The text on Page 4.4-41 (Lines 21 to 28), in Section 4.4, *Biological Resources* is revised as follows:

23 Impacts on special-status fish species such as river lamprey, Central Valley steelhead, Central 24 Valley Chinook salmon, and hardhead could occur under the Ceres Extension Alignment. The 25 Ceres Extension Alignment would include in-water construction in the Stanislaus River and 26 Tuolumne River for the construction of new bridges. The Ceres Extension Alignment includes 27 construction in and around waterbodies that support special-status fish species. Aquatic habitat 28 would be disturbed due to the placement of bridge pilings in the channel. Noise from pile driving 29 can injure or kill fish if impact hammers are used to drive piles. Bridge construction on the 30 Stanislaus and Tuolumne Rivers will require piles on land and in water. Installation of the 96-31 inch piles will be cast-in-place, so no impact pile driving will be needed. Temporary work 32 trestles would be installed to get construction equipment, drill rigs, cranes, and concrete trucks to a wet pier location. This will require driving 18- to 24-inch steel pipe piles with a vibratory 33 34 hammer. This work will occur in the water and the piles will be driven by vibration. Both cast-35 in-place and vibration installations will not affect fish species (Caltrans 2015). The only impact

- 1 pile driving will occur at the abutment on the Stanislaus River, 65 feet away from the river's 2 edge. Riparian vegetation removal along the rivers and creeks decreases habitat quality for fish 3 species. The text on Page 4-42 (Lines 9 to 13), in Section 4.4, *Biological Resources* is revised as follows: 4 5 Noise from vibratory pile driving and cast-in place piles, which are drilled, are not expected to 6 result in injury to fish. Noise from pile driving due to the installation of the bridge over the 7 Stanislaus River for the Ceres Extension Alignment could, however, affect special-status fish. 8 kill or injure special status fish and Furthermore, riparian vegetation removal along the creek 9 banks due to the **Ceres Extension Alignment** would decrease fish habitat quality. For the 10 bridge over the Stanislaus River, an estimated ten concrete piles (16-inches) will be installed 65 11 feet away from the water's edge using an impact hammer. The assessment of pile-driving noise 12 from an impact hammer was based on measured sound levels from similar pile-driving projects 13 (Caltrans 2015). The sound analysis considered impact pile driving without the use of an 14 attenuation method to mitigate underwater sound levels since no pile driving will take place in 15 the water. Approximately 500 hammer strikes would be required to install each pile. The project engineer estimated that five concrete piles would be driven per day; based on this rate of 16 17 construction, impact driving would occur over 2 working days. The resultant sound-level 18 estimates for impact hammer pile driving relative to the injury thresholds as well as the 19 behavioral effects threshold are shown below in Table 4.4-6a. 20 Peak sound levels generated by impact pile driving would not exceed the thresholds for the 21 protection of fish within areas that are less than 33 feet from pile driving; such sound levels 22 would be unlikely to result in fish injury. Cumulative sounds levels are also less than 33 feet 23 from pile driving for fish both greater than and less than 2 grams. 24 It should be noted that special-status fish species in the study area during the time of impact pile 25 driving (June 15 through October 15, as required by Mitigation Measure BIO-3.3, discussed 26 further below) would most likely be large juveniles and adults and therefore capable of moving 27 out of this zone before harmful sound levels are reached. Once impact pile driving begins, 28 individual fish that approach the study area are likely to detect the sounds and avoid or bypass 29 the potential injury impact zone. Opportunities for fish to avoid impact pile-driving sounds 30 would also occur during periods when pile driving ceases (e.g., while repositioning equipment) 31 and at night when pile driving would be suspended. 32 In addition to potential injury effects on fish, project-related impact pile driving may also result 33 in behavioral effects if sound levels exceed both the NMFS behavioral threshold (150 dB RMS) and the upper range of background levels (160 dB RMS). The analysis shows that sound levels 34 35 would exceed 150 dB RMS within 177 feet of the pile-driving location. Therefore, behavioral 36 effects could occur in proximity to pile driving. However, as noted, behavioral effects on fish are 37 not well understood; therefore, it is difficult to assess the definitive significance of such effects in 38 the limited area in proximity to impact pile-driving separate from the injury effects. Given the 39 limited area of effect where sound levels would be above 150 dB, the limited duration (2 days), 40 it is not expected that impact pile-driving effects on fish behavior would result in measurable 41 long-term physical effects on listed fish populations, although individual fish may experience 42 temporary stress.
- Therefore, construction of bridges over the Stanislaus River and Tuolumne River under the
   **Ceres Extension Alignment** would result in <u>less than significant</u> potentially significant impacts

on river lamprey, Central Valley steelhead, Central Valley Chinook salmon, and hardhead.
 However, this impact could still be potentially significant if there are any changes to the project
 design that result in pile driving occurring closer to the water.

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## 1 Table 4.4-6a. Summary of Effects of Impact Pile Driving on Special-Status Fish

												<u>D</u>	<u>istance (feet</u>	<u>) to Thresho</u>	old <sup>b</sup>
				Ducient								Onset of Physical Injury b		<u>Behavior c</u>	
						<u>Underw</u>	ater Sou	nd Level A	ssumptions <sup>a</sup>			<u>Peak</u>	<u>Cumulati</u>	ve SEL dB	<u>RMS</u>
Pile Location	<u>Pile Diameter/</u>	<u>Driver</u>	<u>Piles per</u>	-	<u>Estimate of</u> <u>Total Strikes</u>					<u>Cumulative SEL</u> <u>at Reference</u>	<u>Transmission</u> <u>Loss</u>	<u>dB</u>	<u>Fish≥2g</u>	<u>Fish &lt; 2 g</u>	<u>dB</u>
	<u>Туре</u>		<u>Day</u>	<u>Estimate of</u> <u>Strikes per Pile</u>	per Day	<u>Peak</u>	<u>SEL</u>	<u>RMS</u>	<u>Reference</u> Distance (m)	<u>Distance</u>	<u>Constant</u>	<u>206 dB</u>	<u>187 dB</u>	<u>183 dB</u>	<u>150 dB</u>
<u>Stanislaus River</u> (on land 65 feet from water's edge)	16-inch concrete	<u>Impact</u> <u>Hammer</u>	<u>5</u>	<u>500</u>	<u>2500</u>	<u>180</u>	<u>149</u>	<u>161</u>	<u>10</u>	<u>183</u>	<u>15</u>	<u>&lt;33</u>	<u>&lt;33</u>	<u>&lt;33</u>	177
Notes: <sup>a</sup> Source: Caltrans 2015 <sup>b</sup> Peak and cumulative <sup>c</sup> 150 dB RMS behavior	SEL injury sound leve	els are not expe	ected to be exe		er. Reduced by 5 dF	3 for pile dr	iving on l	<u>and</u>							

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San Joaquin Regional Rail Commission

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Text Revisions to the Draft EIR

#### 1 Table 4.4-7, on Page 4.4-43, in Section 4.4, *Biological Resources* is revised as follows:

#### 2 Table 4.4-7. Phase I Improvements—Wetland and Other Aquatic Resource Impacts (acres)

Phase I Improvements <sup>a</sup>	<b>Riverine Aquatic Feature</b>	Seasonal Wetland
Oakland-Fresno Subdivision Connection	1.82	
Ceres Extension Alignment	<del>5.09</del> <u>0.25 </u> ь	0.28
Ceres Layover Facility, variant 2		0.16

#### Notes:

a\_\_\_Phase I improvements not listed in this table do not contain wetland or other water resource impacts.

 <u>b</u> The Ceres Extension Alignment would affect two riverine aquatic features: Stanislaus River and Tuolumne River. It is anticipated that the bridge over the Stanislaus River would permanently impact 50 square feet (<0.01 acre) and temporarily impact 5,000 square feet (0.11 acre). It is anticipated that the bridge over the Tuolumne River would permanently impact 100 square feet (<0.01 acre) and temporarily impact 6,000 square feet (0.14 acre).

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**Mitigation Measure BIO-4.2** on Page 4.4-99 (Line 23) to Page 4.4-100 (Line 18), in Section 4.4, *Biological Resources* is revised as follows:

# Mitigation Measure BIO-4.2: Compensate for impacts on jurisdictional wetlands and non wetland waters of the United States (aquatic resources) <u>due to prior to</u> ACE Extension improvements impacts during construction

9 SIRRC will develop an aquatic resource (wetlands and non-wetland waters of the United States) 10 mitigation plan, subject to approval by USACE, which will ensure no net loss of wetlands from 11 ACE Extension improvements impacts. The plan will detail the amount and type of wetlands 12 (based on the ACE Extension improvements verified wetland delineation) that will be 13 compensated for (through preservation, creation, or restoration) for impacts on existing 14 wetlands and non-wetland waters of the United States (aquatic resources), and outline the 15 monitoring and success criteria for the compensation of wetlands and non-wetland waters of 16 the United States. Additional enhancement options include fish barrier removal, riparian 17 restoration, floodplain restoration, and streambank layback to improve overall ecologic function 18 and connectivity of wetland and non-wetland waters. Enhancement sites will be located as near 19 the impact location as possible but, in the event that local enhancement opportunities are not 20 available, such activities will occur within the same stream system or watershed to provide 21 improved ecologic function and connectivity of wetlands and non-wetland waters affected by 22 ACE Extension improvements.

- Monitoring and success criteria applicable to created or restored wetlands will require thefollowing.
  - At least two surveys by a qualified wetland biologist, botanist, or ecologist per monitoring year.
- At least 80 percent of the created or restored features support vegetation consistent with
   reference feature conditions.
- At least 80 percent of the created or restored features support hydrologic regimes similar to reference feature conditions.
  - A minimum of 5 consecutive years of monitoring to ensure success criteria are met.

1

2

• Remedial actions to restore intended ecological function of created or restored features that fail to meet the success criteria for 3 consecutive years.

3Once the plan is approved, SJRRC will implement the aquatic resource compensation measures4prior to the initiation of at the same time as the ACE Extension improvements construction.5SJRRC will be responsible for funding compensatory mitigation, monitoring of the created or6restored features per the mitigation plan, and any remedial actions necessary. All conditions7that are attached to the state and federal permits will be implemented as part of the ACE8Extension improvements. The conditions will be clearly identified in the construction plans and9specifications and monitored during and after construction to ensure compliance.

12 The SIRRC will be responsible to provide maintenance and monitoring of all replanted trees to 13 assure their survival and/or remedial replanting in case they do not survive. All replanted trees 14 will be maintained for a minimum 5-year period and monitored on an annual basis by a 15 professional arborist. If at the end of 5 years, the tree is considered successfully established, 16 then no further maintenance is required by the SIRRC. A professional arborist shall make the 17 determination as to planting success. The SIRRC will be directly responsible for maintaining all 18 trees within the UPRR ROW. For trees outside the UPRR ROW, the SIRRC will be responsible for 19 maintenance costs for the first five years. If individual tree plantings are determined to be 20 unsuccessful after five years, then the SIRRC will be required to either replace the tree (and 21 provide an additional 5 years of maintenance) or extend the maintenance period on a year to 22 year basis until the tree is successfully established. If the tree planting is successfully 23 established, then all further maintenance will be responsibility of the landowner.

## 24 Section 4.5, Cultural Resources

Mitigation Measures CUL-2.4 and CUL-2.5, Page 4.5-27 (Lines 1 to 14), in Section 4.5, Cultural
 *Resources* is revised as follows:

# Mitigation Measure CUL-2.4: Implement procedures in case of inadvertent archeological discoveries

29 During construction (any ground-disturbing activity), should there be an unanticipated 30 discovery, work will stop within 100 feet of the discovery, and the construction contractor will 31 call a qualified archaeologist to assess the significance of the find and to recommend appropriate 32 measures. Should the discovery include human remains, all parties will comply with federal and 33 state regulations and guidelines regarding the treatment of human remains, including relevant 34 sections of NAGPRA (3(c)(d)), California Health & Saf. Code Section 8010 et seq., and Cal. Public 35 Res. Code Section 5097.98, and consult with NAHC, tribal groups, and the State Historic 36 Preservation Officer. The final disposition of archeological, historical, and paleontological 37 resources recovered on state lands under the jurisdiction of the California State lands 38 Commission must be approved by the Commission.

Mitigation Measure BIO-7.1 is modified on Page 4.4-107 after Line 6, in Section 4.4, *Biological Resources* with the addition of the following:

#### 1 Mitigation Measure CUL-2.5: Conduct archaeological testing

In the event of an unanticipated archaeological discovery, testing will be performed by qualified
 archaeologists in order to determine the extent and nature of cultural deposits and whether or
 not the resource meets the eligibility criteria for the NRHP and/or CRHR. <u>The final disposition of</u>
 archeological, historical, and paleontological resources recovered on state lands under the
 jurisdiction of the California State lands Commission must be approved by the Commission.

## 7 Section 4.9, Hazardous Materials

8	Mitigation Measure HAZ-2.1, Page 4.9-30, in Section 4.9, <i>Hazardous Materials</i> , is revised as follows:
9	Mitigation Measure HAZ-2.1: Implement voluntary oversight agreement
10	Prior to construction, SJRRC will establish an agreement with a state regulatory agency to
11	oversee the investigation and management (described in Mitigation Measures HAZ-2.2, HAZ-2.3,
12	and <u>SJVAPCD Regulation VII</u> <del>AQ-2.5</del> ) of contaminated soil, ballast, and/or groundwater that
13	would potentially be disturbed by construction and maintenance of the ACE Extension
14	improvements. Regulatory agency oversight may be provided by, but is not limited to, the State
15	Water Board under the Site Cleanup Program or the DTSC under the Voluntary Cleanup
16	Program.
17	Mitigation Measure HAZ-2.3, Page 4.9-32, in Section 4.9, Hazardous Materials, is revised as follows:
18	Health and safety procedures described in the CRMP will include requirements for an air quality
19	monitoring program during excavation in areas with elevated contaminants of concern to
20	ensure that fugitive dust emissions do not pose an unacceptable health risk to workers or the
21	public. The air monitoring program will identify action levels for total particulates that require
22	respiratory protection, implementation of engineering controls, and ultimately work stoppage.
23	This monitoring program will be in addition to the fugitive dust controls required under
24	SJVAPCD Regulation VII Mitigation Measure AQ-2.5.

## 25 Section 4.10, Hydrology and Water Quality

The impact summary box for Impact HYD-1 on the bottom of Page 4.10-22, in Section 4.10,
 *Hydrology and Water Quality* is revised to include Mitigation Measure HAZ-2.2, as follows:

Impact HYD-1	Construction of Phase I improvements could violate water quality standards or waste discharge requirements, provide substantial additional sources of polluted runoff, or otherwise substantially degrade water quality.
Level of Impact	Potentially significant
<b>Mitigation Measures</b>	HAZ-2.2: Conduct Site Investigations
	HAZ-2.3: Implement construction risk management plan
	HYD-1.1: Avoid water quality impacts from groundwater or dewatering discharges
	HYD-1.2: Avoid water quality impacts from construction adjacent to, within, and crossing over surface waters

Impact HYD-1	Construction of Phase I improvements could violate water quality standards of waste discharge requirements, provide substantial additional sources of polluted runoff, or otherwise substantially degrade water quality. HYD-7.1: Limit groundwater or dewatering discharge flow rates	
Level of Impact after Mitigation	Less than significant	

- 1
- 2

3

Page 4.10-27 (Lines 12 to 28), in Section 4.10, *Hydrology and Water Quality* is revised as follows:

#### Significance with Application of Mitigation

4 Mitigation Measure HAZ-2.2 requires site investigations to evaluate the chemical quality of soil 5 and groundwater that could be disturbed during construction. Mitigation Measure HAZ-2.3 6 requires a CRMP that provides a framework for proper characterization and management of 7 contaminated soil and groundwater that could be disturbed during construction. Mitigation 8 Measure HYD-1.1 requires specific procedures for the construction of Phase I improvements 9 entailing the discharge of groundwater or dewatering effluent. Mitigation Measure HYD-1.2 10 requires specific procedures for construction work for Phase I improvements adjacent to, 11 within, or crossing surface water. Mitigation Measure HYD-7.1 requires dewatering discharge to be performed at appropriate flow rates to ensure that erosion of stream banks, which could 12 13 affect water quality, would not occur. With implementation of Mitigation Measures HAZ-2.2, 14 HAZ-2.3, HYD-1.1, and HYD-1.2, and HYD-7.1, impacts on water quality during construction of 15 Phase I improvements would be less than significant.

#### 16 Mitigation Measures

17 Mitigation Measures HAZ-2.2, HAZ-2.3, HYD-1.1, and HYD-7.1 would apply to the North Lathrop 18 Station, Oakland-Fresno Subdivision Connection, Ceres Extension Alignment, Ripon 19 Station, and Ceres Layover Facility, variant 2 for construction activities involving the 20 discharge of groundwater or dewatering effluent. Mitigation Measure HYD-1.2 would apply to 21 the Existing Lathrop/Manteca Station, Oakland-Fresno Subdivision Connection, Ceres 22 Extension Alignment, and Ceres Layover Facility, variants 1 and 2 for construction work 23 adjacent to, within, or crossing surface water. Descriptions of Mitigation Measures HAZ-2.2, 24 HAZ-2.3. HYD-1.1. HYD-1.2. and HYD-7.1 is are presented in Section 4.9, Hazardous Materials, 25 and Impact HYD-7, respectively.

- 26
- Mitigation Measure HAZ-2.2: Conduct Site Investigations
- 27

Mitigation Measure HAZ-2.3: Implement construction risk management plan

## 28 Section 4.11, Land Use and Planning

29	The text on Page 4.11-11 (Lines 24 to 32), in Section 4.11, Land Use and Planning, is revised as
30	follows:

The Livingston Bus Stop is located within the existing city ROW where no land use
designations are identified. The Livingston Station is located within areas designated for

1	downtown commercial uses per the City of Livingston general plan map (City of Livingston 1999
2	<del>2008</del> ). This land use designation is defined as follows by the City of Livingston.
3	• Downtown Commercial land use designation provides for mixed-use activity in the
4	downtown area and is intended for a wide range of uses to promote feasibility and vitality of
5	downtown. Professional office land uses and office development, including medical, dental,
6	law, or other professional offices are permitted. Commercial uses may include business
7	support and support restaurant and medical services (City of Livingston <u>1999</u> <del>2008</del> ).

1	Table 4.11-3 on Page 4.11-30 through Page 4.11-31 has been revised as follows:
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Applicable Policy	Consistency Analysis
Transportation System and Congestion Management Policy <u>4.5-</u> 1. The City encourages the use of energy efficient and non-polluting modes of transportation.	<b>Consistent</b> . With Phase I operations, an interim bus bridge would operate between Ceres and Merced, with a stop in Livingston ( <b>Livingston Bus Stop</b> ). Electric buses would be used to operate the bus bridge service.
Transportation System and Congestion Management Policy <u>4.5-</u> 3. Promote the long-term shifting of peak hour commute trips from the single occupant automobile to ridesharing, buses, pedestrian, and bicycles.	<b>Consistent.</b> Refer to consistency analysis for Transportation System and Congestion Management Policy <u>4.5-</u> 1.
<u>Parking and Alternatives</u> Transportation Modes <u>Policy 1 Objective B</u> . Foster alternative forms of transportation aimed at reducing vehicle trips and encouraging pedestrian and bicycle mobility, carpooling, and use of transit. <u>Provide various</u> types of transportation modes throughout the <u>City.</u>	<b>Consistent.</b> Refer to consistency analysis for Transportation System and Congestion Management Policy <u>4.5-</u> 1.
<u>Transportation System Pedestrian Facility</u> Policy <u>4.9-C-</u> 7. Transit centers/stops shall be established to encourage the interface between commercial centers, high-density residential uses, and the transit system.	<b>Consistent.</b> With Phase I operations, an interim bus bridge would operate between Ceres and Merced, with a stop in Livingston. The <b>Livingston Bus Stop</b> would be co-located at an existing bus stop serviced by a Merced County Transit intercity route.
	Transportation System and Congestion Management Policy <u>4.5-</u> 1. The City encourages the use of energy efficient and non-polluting modes of transportation. Transportation System and Congestion Management Policy <u>4.5-</u> 3. Promote the long-term shifting of peak hour commute trips from the single occupant automobile to ridesharing, buses, pedestrian, and bicycles. <u>Parking and Alternatives Transportation Modes Policy 1 Objective B</u> . Foster alternative forms of transportation aimed at reducing vehicle trips and encouraging pedestrian and bicycle mobility, carpooling, and use of transit. Provide various types of transportation modes throughout the <u>City.</u> <u>Transportation System Pedestrian Facility</u> Policy <u>4.9-C-</u> 7. Transit centers/stops shall be established to encourage the interface between commercial centers, high-density residential uses, and the

1	Table 4.11-4 on Page 4.11-44 through Page 4.11-45 has been revised as follows:
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Policy Document	Applicable Policy	Consistency Analysis
City of Livingston <del>2025</del> General Plan (City of Livingston <u>1998</u> <del>2008</del> )	Land Use Policy <u>3.1-A-</u> 1. No development shall be approved unless it is found to be consistent with the adopted Land Use Map and policies of the General Plan.	<b>Consistent.</b> The <b>Livingston Station</b> would be located adjacent to the UPRR ROW and in the city's downtown area. The City identifies the land use at the Livingston Station for downtown commercial uses, which provides for mixed-use activity in the downtown area and is intended for a wide range of uses to promote feasibility and vitality of downtown. New passenger rail service to Livingston and the siting of the <b>Livingston Station</b> would increase access to/from downtown Livingston from cities throughout the Central Valley and the Bay Area. The location of the <b>Livingston Station</b> would support the vitality and redevelopment of the downtown area.
	Transportation System and Congestion Management Policy <u>4.5-</u> 1. The City encourages the use of energy efficient and non-polluting modes of transportation.	<b>Consistent.</b> Phase II operations would offer an energy- efficient transportation alternative compared to single- occupant vehicles. As described in Section 4.6, <i>Energy</i> , Phase II operations, having similar characteristics as Phase I improvements, would reduce VMT compared to the No Project Alternative. Although the reduction in VMT has not been quantified, it is anticipated that VMT reductions with Phase II operations would be greater than Phase I operations.
	Transportation System and Congestion Management Policy <u>4.5-</u> 3. Promote the long-term shifting of peak hour commute trips from the single occupant automobile to ridesharing, buses, pedestrian, and bicycles.	<b>Consistent.</b> Refer to consistency analysis for Transportation System and Congestion Management Policy <u>4.5-</u> 1.
	Parking and Alternatives Transportation Modes Policy 1 Objective B. Foster alternative forms of transportation aimed at reducing vehicle trips and encouraging pedestrian and bicycle mobility, carpooling, and use of transit. Provide various types of transportation modes throughout the City.	<b>Consistent.</b> Refer to consistency analysis for Transportation System and Congestion Management Policy <u>4.5-</u> 1.

1

Policy Document	Applicable Policy	Consistency Analysis
	<u>Transportation System</u> Pedestrian Facility Policy <u>4.9-C-</u> 7. Transit centers/stops shall be established to encourage the interface between commercial centers, high-density residential uses, and the transit system.	<b>Consistent.</b> Refer to consistency analysis for Land Use Policy <u>4.5-</u> 1.
<i>City of Livingston <del>2025</del> General</i> <i>Plan</i> (City of Livingston <u>1998</u> <del>2008</del> )	Urban Boundary Policy <u>6.1-A-</u> 3. Priority shall be given to development of vacant, underdeveloped, and/or redevelopable land where urban services are or can be made available. Parcels should be substantially contiguous to existing development <del>,</del> meaning that 20 percent of a parcel's perimeter is contiguous to existing urban development.	<b>Consistent.</b> Refer to consistency analysis for Land Use Policy <u>4.5-</u> 1.

# <sup>1</sup> Section 4.12, Noise and Vibration

Table 4.12-1 under subheading Section 4.12.2.3, Regional and Local, on Page 4.12-6 has been revised
 as follows:

Document Title	Summary
<i>City of Livingston 2025</i> <i>General Plan</i> (City of Livingston 2008)	Policy Noise 3 requires noise created by new transportation sources be mitigated as not to exceed 65 dB L <sub>dn</sub> for residential and other noise-sensitive land uses.
<u>City of Livingston General</u> <u>Plan (City of Livingston</u> <u>1999)</u>	<u>Policy Noise 4. Noise created by new transportation sources, including</u> <u>roadway improvement projects, shall be mitigated so as not to exceed the</u> <u>following noise levels: 55 dB (daytime hourly Leq), 50 dB (nighttime hourly</u> <u>Leq), 75 dB (daytime maximum), 70 dB (nighttime maximum).</u>
<b>Mitigation Measure NO-</b> revised as follows:	<b>2.1</b> , Page 4.12-29 to Page 4.12-30, in Section 4.12, <i>Noise and Vibration</i> , is
Mitigation Measure I	NOI-2.1: Implement a phased program to reduce train noise along the
ACE Extension as neo	cessary to address noise increases over Federal Transit
Administration's sev	vere impact thresholds
Project Noise Impact	t <u>s</u>
This mitigation applie	s to three locations in Manteca where the ACE extension results in severe
project noise impacts: Two residences along the northbound side of the alignment between	
	d West Louise Avenue; and one residence along the northbound side of the
6	est Louise Avenue and North Union Road. Mitigation for these project
prior to ACE extension	nented by SJRRC as part of project implementation and will be completed
-	
	ecommendation for methods to reduce severe noise impacts along the ACE
Extension for Phase I	operations.
-	th the City of Manteca, create a quiet zone between South Airport Way and
	which would mitigate all Phase I severe noise impacts. Creation of a quiet
-	ele if the City of Manteca approves as the FRA gives local jurisdictions the r deny a quiet zone establishment. With this option, SJRRC would fund the
	nents necessary to establish this guiet zone, coordinate with UPRR, and
	f Manteca in applying to the FRA for its approval. If the SIRRC selects this
	ity of Manteca agrees with a quiet zone, it shall be established prior to
Phase I operations	<u>S.</u>
• If a quiet zone is n	ot selected by SIRRC or agreed to by City of Manteca or is otherwise
	RRC shall evaluate the feasibility of wayside horns at the nearby grade
	g insulation at the 3 residences, and/or noise barriers. The evaluation and
implementation o	f the feasible solution shall be completed prior to Phase I operations.

#### 1 <u>Cumulative Noise Impacts</u>

2 SIRRC will also coordinate with other rail operators, local jurisdictions, transportation funding 3 agencies, and state and federal agencies to implement incremental noise reduction measures at 4 the locations of severe cumulative noise impacts as funding becomes available, where measures 5 are acceptable to the local community, and where measures are determined feasible. This 6 mitigation applies to the locations where the ACE Extension would substantially contribute to 7 cumulative noise impacts. Where the ACE Extension does not contribute to cumulative noise 8 impacts, SJRRC is not responsible to participate in mitigation for cumulative impacts, even if the 9 cumulative noise impacts are severe.

- 10SJRRC will work with local, state, and federal partners to establish priorities for cumulative11noise reduction measures to be implemented as funding becomes available. SJRRC will also12work with other willing rail operators to seek additional funding from other parties that13contribute to cumulative train noise levels.
- 14This cumulative noise mitigation program is expected to be implemented over a period of15decades. Improvements will be phased as needed to address changes in rail service over time16and the associated rail noise over thresholds. If funding participation by other parties is limited,17SJRRC may will not be able to fund-all potential noise mitigation on its own, particularly in cases18in which the mitigation to address cumulative noise impacts far that exceeds SJRRC's fair share19of the impact.
- 20 Wayside Horns and Residential Building Sound Insulation
- 21When funding is available, SJRRC, in cooperation with local jurisdictions, other funding partners,22and UPRR, will evaluate the potential to reduce cumulative noise impacts through the23installation of wayside horns and building sound insulation improvements at residences24projected to have a sound increase greater than the FTA severe moderate impact criteria.25Building sound insulation methods may include extra wall insulation, window glazing, and26sealing of exterior surfaces.
- 27During final design, When funding is available, a technical study will be completed to evaluate28the effectiveness of reducing impacts to below the FTA severe moderate impact threshold29through these methods. If the study determines it is feasible to reduce the impact to below the30threshold at an affected sensitive noise receptor, then no additional mitigation at that location31will be required. Building sound insulation measures will only be installed to the extent32necessary to meet the impact threshold at the receptor location and will only be installed if33building owners are willing to accept such measures.
- 34 Quiet Zones
- The lead agency for a quiet zone designation is the local jurisdiction (typically the city or county)
   responsible for traffic control and law enforcement on the roads at the at-grade crossings.
- When funding is available, SJRRC, in cooperation with affected local jurisdictions and other
   funding partners and cumulative rail noise contributors, will implement a phased program
   considering the potential establishment of quiet zones along the ACE Extension at all locations
   where cumulative train noise is predicted to exceed FTA severe impact thresholds. SJRRC will
   work closely with local jurisdictions and other funding partners to prepare the engineering
   studies and coordination agreements to design, construct, and enforce potential quiet zones.

1	FRA has established a process by which a local jurisdiction can designate a specific area
2	containing at-grade crossings as a "quiet zone," provided that certain supplemental safety
3	measures (SSMs) are used in place of the locomotive horn to provide an equivalent level of
4	safety at the at-grade crossing (Federal Transit Administration 2006). The SSMs commonly used
5	for quiet zones include four-quadrant gates, gates with medians or channelization devices, one-
6	way street with gates, and street closure. In addition to these pre-approved SSMs, FRA also
7	identifies a range of other measures that may be used to establish a quiet zone. These measures
8	could be modified SSMs or non-engineering measures that might involve law enforcement or
9	public awareness programs. Such alternative safety measures must be approved by FRA based
10	on the prerequisite that they provide a level of safety equivalent to the sounding of train horns.
11	Options for establishing quiet zones could include implementation of the following FRA pre-
12	approved SSMs.
13	<ul> <li>Four-quadrant gate system. This measure involves the installation of at least one gate for</li></ul>
14	each direction of traffic to fully block vehicles from entering the crossing.
15	<ul> <li>Gates with medians or channelization devices. This measure keeps traffic in the proper</li></ul>
16	travel lanes as it approaches the crossing, thus denying the driver the option of
17	circumventing the gates by travelling in the opposite lane.
18	<ul> <li>One-way street with gates. This measure consists of one-way streets with gates installed</li></ul>
19	so that all approaching travel lanes are completely blocked. This option may not be feasible
20	or acceptable to local jurisdictions at all locations.
21	<ul> <li>Road closure. This measure consists of closing the road to through travel at the at-grade</li></ul>
22	crossing. This option may not be feasible or acceptable to local jurisdictions at all locations.
23	In addition to these pre-approved SSMs, FRA also identifies a range of other measures that may
24	be used to establish a quiet zone. These measures could be modified SSMs or non-engineering
25	measures that might involve law enforcement or public awareness programs. Such alternative
26	safety measures must be approved by FRA based on the prerequisite that they provide a level of
27	safety equivalent to the sounding of train horns.
28 29 30 31	Wayside horns can also be utilized as part of a quiet zone. While not avoiding the sounding of a horn, wayside horns affect a smaller area than train-mounted horns. Wayside horns can be used when quad gates, medians, channelization, one-way streets, and/or road closures are not adequate to avoid the use of a horn or not acceptable to the local jurisdiction.
32 33 34 35 36 37 38	The lead agency for a quiet zone designation is the local public authority, which is the only authority that can implement a quiet zone. SJRRC or the other rail operators cannot, on their own, designate the quiet zone. However, only with the implementation of the quiet zone can SJRRC, other tenant railroads, and freight operators be relieved of the requirement to sound their horns when crossing at-grade crossings. Thus, if a local city does not accept the quiet zone, then even if the required SSMs are present, SJRRC, freight and other rail operators would continue to use train horns as a safety device in compliance with FRA requirements.
39	Grade Separations
40	

40 Grade separations are not being considered for the mitigation of severe noise impacts due to the
 41 relatively higher cost and the existence of other feasible mitigation measures.

#### 1 Noise Barriers

2	<u>When funding is availal</u>	<u>ole and after determination of whether quiet zones, wayside horns,</u>
3	and/or building sound	insulation are feasible or not to address severe impacts, SJRRC, in
4	cooperation with affect	ed local jurisdictions and other funding partners and cumulative rail
5	-	implement a phased program for implementing noise barriers where
6	cumulative noise impac	ts exceed FTA several noise thresholds. For noise barriers to be effective,
7	these barriers are const	tructed to intercept the line of sight between a noise source and
8	receptors. Noise barrie	rs can be constructed from concrete, brick or masonry blocks, metals,
9	-	parent panels. The height of each noise barrier would depend on
10	-	he conditions at each specific location, but typical noise barriers are 8 to
11	10 feet in height.	
12	Recommended Noise Re	duction Methods for the ACE Extension (Phase I Operations)
13	The following is the rec	ommendation for methods to reduce severe noise impacts along the ACE
14	Extension for Phase I op	perations.
15 16		quiet zone between South Airport Way and North Union Road, which severe impacts in this section.
17	The top of Page 4.12-36	has been revised as follows:
	Impact NOI-6	Increased passenger rail on the existing ACE route and new passenger rail on new routes with Phase II operations could result in severe noise impacts.
	Level of Impact	Potentially <del>less than</del> significant
	Mitigation Measures	If significant impacts identified in subsequent project-level detailed analysis, then the following mitigation measure may be necessary:
		NOI-2.1: Implement a phased program to reduce train noise along the ACE Extension as necessary to address noise increases over Federal Transit Administration's severe impact thresholds
	Level of Impact after Mitigation	Less than significant

18 Table 4.12-11 on Page 4.12-37 has been revised as follows:

#### 19 Table 0-1. Overview of Operational Noise Impacts for Phase II Improvements

	Noise Impact	
Phase II Improvements	Moderate	Severe
Lathrop to Stockton <sup>a</sup>	0	0
Lathrop to Ceres <sup>a</sup>	44 <u>45</u>	<del>0</del> <u>1</u>
Ceres to Merced <sup>a</sup>	80°	0°
Merced Extension Alignment	80	0
Turlock Station	0 <sup>b</sup>	0 <sup>b</sup>
Livingston Station	0 <sup>b</sup>	0 <sup>b</sup>
Atwater Station	0 <sup>b</sup>	0 <sup>b</sup>

	Noise Impact	
Phase II Improvements	Moderate	Severe
Merced Layover Facility	0	0
Merced Station	0ь	$0^{\mathrm{b}}$

Notes:

<sup>a</sup> Impacts in these segments are related to the increase in passenger train traffic.

<sup>b</sup> There are no sensitive receptors within the screening distance; therefore, no impacts are anticipated.

<sup>c</sup> Because the Union Pacific Railroad train volume is the same from Lathrop through Merced, the same existing noise levels were used to estimate the number of impacts in this segment.

1 2

The subheading Lathrop to Ceres on Page 4.12-37 has been revised as follows:

As shown in Table 4.12-15, there would be <u>45</u> 44 moderate noise impacts and <u>one no</u> severe
 noise impacts on residential receptors and no noise impacts on institutional receptors along this
 segment related to Phase II operations. <u>The one severe noise impact is projected at a residence</u>
 <u>in Manteca, which is located near the Lathrop Wye Double Track.</u>

8 The subheading, Significance Conclusion and Mitigation Measures, on the top of Page 4.12-38 has
9 been revised as follows:

#### **Significance Conclusion and Mitigation Measures**

11 Phase II operations would result in 125 124 moderate noise impacts and one severe impact 12 because of the new passenger rail service. There would be no severe noise impacts. All moderate 13 impacts would be at locations where train horns are sounded at grade crossings. Phase II 14 operations would not cause an increase in ambient noise levels that exceed the FTA severe 15 impact criteria, which is considered a less than significant impact. As shown in Impact NOI-2. 16 Mitigation-Measure NOI-2.1 would apply to locations within a significant impact due to Phase II 17 operations. It would be feasible to mitigate noise impacts at this one location; thus, the impact at 18 this location could be mitigated to a less than significant level.

19 As noted above, a general noise assessment was performed for the Phase II improvements, and 20 thus existing noise levels were not measured. Existing noise measurements would be conducted 21 for the subsequent project-level analysis for Phase II improvements. It is possible that the 22 conclusion in this document may change and that the project-level analysis could indicate 23 additional noise impacts exceeding the FTA severe impact criteria. If that is identified, then as shown in Impact NOI-2 for Phase I operations, a significant impact may be identified, in which 24 25 case Mitigation Measure NOI-2.1 would also apply to locations with a significant impact due to 26 Phase II operations.

27 No significant impacts are identified for Phase II operations and thus no mitigation is required.

28 Mitigation Measures

29 Mitigation Measure NOI-2.1 would apply to the Phase II improvements for operational-period
 30 noise impacts.

1Mitigation Measure NOI-2.1: Implement a phased program to reduce train noise along2the ACE Extension as necessary to address noise increases over Federal Transit3Administration's severe impact thresholds

## 4 Section 4.13, Population and Housing

5 The fifth paragraph under Impact POP-3 on Page 4.13-15 has been revised as follows:

6The Livingston Station would entail constructing a new station platform and parking areas in7the downtown area. This station would be consistent with the *City of Livingston 2025 General*8*Plan* which support transit centers/stops to be established in order encourage the interface9between commercial centers, high-density residential uses, and the transit system, per the10<u>Circulation Policy 4.9-C-7</u> (City of Livingston <u>1999 2008</u>). As a result, existing planning policies

11 already propose increased growth in this area, and potential future population that may be

12 associated with a station at these locations would not be substantial or unplanned.

## 13 Section 4.14, Public Services

Table 4.14-2 under subheading Section 4.15.3.2, Law Enforcement, on Page 4.17-7 has been revisedas follows:

Jurisdictions	Police Department and Sheriff's Office Information
City of Livingston	<b>Staffing:</b> The Livingston Police Department consists of 18 sworn officers in Operations Division; 34 total sworn staff.
	<b>Services:</b> Patrol (crime suppression and calls for service), school resource officer, animal services, police reserves, detective bureau, gang suppression, narcotics enforcement, and intelligence
	Headquarter/station in the study area: 1446 C Street, Livingston
	Service ratio goal: 1.5 <u>1</u> officers for every 1,000 citizens.
City of Atwater	Staffing: The Atwater Police Department consists of 32 sworn officers.
	Services: Patrol unit, code enforcement, and field services
	<b>Headquarter/station in the study area:</b> There is no headquarter/station located in the study area. The Atwater Police Department headquarter is located at 750 Bellevue Road, Atwater.
	Service ratio goal: 1.1 officers for every 1,000 citizens.
City of Merced	Staffing: The Merced Police Department consists of 84 sworn officers.
	<b>Services:</b> Patrol division, crime prevention, code enforcement, communications division, bomb unit, SWAT, K-9 unit, and bicycle patrol
	<b>Headquarter/station in the study area:</b> 611 West 22nd Street, Merced (Main Station) and 470 West 11th Street (South Station)
	Service ratio goal: 1.32 officers for every 1,000 citizens.
<u> </u>	

Sources: San Joaquin County Sheriff's Office 2018; San Joaquin County 2004; Lathrop Police Department 2018; Terras pers. comm.; Manteca Police Department 2018; Smigelski pers. comm.; Ripon Police Department 2018; City of Ripon 2006; Stanislaus County Sheriff's Office 2018; Stanislaus County Police Department pers. comm.; Modesto Police Department 2018; City of Modesto 2008; Ceres Police Department 2018; City of Ceres 2017; Turlock Police Department 2018; City of Turlock 2009; Merced County Sheriff's Office 2018; Merced County 2013; Livingston Police Department 2018; City of Livingston <u>1999</u> <del>2008</del>; Atwater Police Department 2018; Ceres Department of Public Safety 2009; Merced Police Department 2018; City of Merced 2012

HNT = Hostage Negotiation Team.

SWAT = special weapons and tactics.

# <sup>1</sup> Section 4.17, Transportation and Traffic

Table 4.17-1 under subheading Section 4.17.2.3, Regional and Local, on Page 4.17-5 has been revised
 as follows:

Policy Title	Summary
<i>City of Livingston 2025 General Plan</i> (City of Livingston 2008)	No stated LOS goal, but notes most streets operate at LOS A, which is widely considered acceptable operations for local jurisdictions.
<u>City of Livingston General Plan (City of Livingston 1999)</u>	The City designates Service Level "C" as defined in the Highway Capacity Manual (published by the Transportation Research Board of the National Research Council) as the minimum desirable service level at which arterial streets and collector streets should operate. All new facilities in these categories shall be designed to operate at this level or better for a period of at least 20 years following their construction.

## 4 Section 4.18, Utilities and Service Systems

- Mitigation Measure USS-1, Page 4.18-21 (Line 27), in Section 4.18, *Utilities and Service Systems*, is
   revised as follows:
- 7 Mitigation Measure USS-1: <u>Utility Coordination and Utility Relocation Plan-Implement</u>
   8 construction road traffic control plans

# 9 Chapter 5, Other CEQA-Required Analysis

10The text on Page 5-45 (Lines 10 to 12), in Chapter 5, Other CEQA-Required Analysis, is revised as11follows:

"The water quality degradation and contribution to flooding events associated with the ACE
 Extension and other reasonably foreseeable projects <u>could would</u> result in a significant
 cumulative impact on hydrology and water quality."

# 15 Chapter 6, Alternatives

- 16 The text on Page 6-24 (Lines 4 to 36), in Chapter 6, *Alternatives*, is modified as follows:
- OPS-1: Split Train Scenario. This alternative would involve operating two separate consists, one departing from the existing Stockton station and one from the Ceres Station in Phase I (and from Merced in Phase II). Once both consists arrive at the Lathrop-area station, the two separate consists would be joined. The combined consists would then proceed along the existing ACE corridor to San Jose. On the return trip, a single consist would be split into two separate consists at the Lathrop-area station and one consist would proceed to the Stockton Station and the other consist would proceed to the Ceres Station in Phase II).

1	There might be potential one-seat convenience and ridership benefits for this alternative under
2	the right conditions in the future. However, at present there are multiple operational concerns
3	including the time necessary for coupling and splitting, the risk of mechanical failure, safety, and
4	the lack of precedent to do train splitting in North America using existing/proposed Bombardier
5	equipment.
6	• Train coupling or train splitting requires two separate actions: 1) physical coupling or
7	splitting – 5 to 10 minutes; and 2) re-establishing the Positive Train Control (PTC) system
8	for each new consist – 15 minutes. If the PTC can be brought up at the same time as the
9	actual coupling/splitting, then the duration would be 15 minutes. If it cannot, then the delay
10	could be a total of 20 to 25 minutes. As shown in the prototypical schedules in the draft EIR,
11	the delay time with the proposed time transfers in Lathrop is between 5 and 10 minutes.
12	with most transfers taking less than 10 minutes (see the prototypical schedule in Table 2-4
13	in Chapter 2, Description of Phase I Improvements). As such, a train splitting scenario will add
14	between 5 and 15 minutes to each commute direction and up to 10 to 30 minutes for a daily
15	commute.
16	• When doing mechanical work, such as when joining or splitting a train, there is a risk of
17	additional mechanical failure. The train also has to be re-inspected after joining, the air
18	brake test has to be completed, and the PTC system has to be reengaged. Mechanical failure
19	introduces the risk of additional service delay as well as concerns about safety, which is
20	discussed in the next bullet.
21	• The crew would be doing the joining/splitting at the station on the railroad mainline; thus,
22	there is a reduced amount of safety given the frequent passage of freight trains.
23	Furthermore, this will tie up the mainline in single track territory, which will be a concern
24	for UPRR and may not be permitted by UPRR.
25	• SJRRC has not identified any train splitting for revenue service conducted in North American
26	<u>using the Bombardier equipment intended for use for the Proposed Project. This lack of</u>
27	precedent means that this is untested on U.S. railroads operating under FRA regulations,
28	which raises the potential for additional delay, mechanical, and safety issues than those
29	described above. European regulations are different and not applicable to U.S. operations.
30	The existing ACE service and the extended ACE service during the weekdays is dominated by
31	San Joaquin Valley workers travelling to the Tri-Valley and Silicon Valley for work. As such, their
32	commute mode choices are heavily influenced by time. For existing service from Stockton to San
33	<u>Jose, train coupling would nominally add 5 to 15 minutes additional travel time each way. For</u>
34	proposed service from Ceres and Merced, the proposed transfer at Lathrop would be on the
35	same platform for westbound passengers in the morning and eastbound in the evening, which is
36	the most efficient transfer for these passengers. Thus, train coupling/splitting would extend the
37	service time for riders along the extension to Ceres and Merced.
38	This alternative was dismissed because it does not meet the project purpose and need because it
39	would increase service times, increase risk of mechanical failures, and increase safety risks to
40	workers. Due to the unprecedented nature of train splitting using proposed Bombardier
41	equipment in the U.S., there remain unresolved mechanical and safety concerns of doing such
42	operations on a busy railroad mainline. Furthermore, this alternative would not avoid or
43	substantially reduce significant <u>adverse</u> environmental impacts of the Proposed Project.

1	Nothing in the Proposed Project precludes SJRRC from considering train splitting in the future.
2	In the future, SJRRC may purchase equipment that may make splitting more practicable and that
3	addresses the delay, potential for mechanical failure, safety, and may then be able to address
4	UPRR concerns about train splitting/coupling on a freight mainline. However, with the present
5	equipment and the current challenges, this is not an option today.
6 • 7 8 9 10	OPS-2: DMU Extension. This alternative would include the use of <u>light-weight</u> DMUs instead of a conventional locomotive push/pull service for the connection from Ceres and Merced to Lathrop. DMUs are self-propelled diesel-mechanical vehicles with engines located below the passenger compartment. In this alternative, the DMUs would only operate between Merced and Lathrop and would not be used for the service from Stockton to San Jose.
11	As a point of information, if UPRR were to allow light-weight DMUs at some point in the future
12	on the ACE Extension, it is possible that benefits in terms of performance, ability to scale trains,
13	and increase ridership and associated environmental benefits (VMT, air pollution, and GHG
14	reduction) might occur. But, as explained below, this is not a feasible option now, as SJRRC must
15	work with UPRR current conditions, which preclude the use of DMUs at present.
16	While there are heavy-weight DMUs that are FRA compliant and can share tracks with freight,
17	due to their weight, they are less efficient and have lesser performance advantages than
18	European style light-weight DMUs, and as such present less of an attractive alternative to
19	conventional locomotives, which is why Alternative OPS-2 is focused on light-weight DMUs. In a
20	2016 survey of DMU operations in North America (Nelson, Blakey, and O Neill 2017), only four
21	light-weight non-FRA compliant DMU operations in the U.S. that shared lines with freight, were
22	identified in 2016: DCTA, Denton, Texas; Capital MetroRail, Austin, Texas; Sprinter, San Diego
23	County, California; and River Line, New Jersey. All four required FRA waivers, which required
24	temporal separation between light-weight DMUs and freight trains. None of these four were
25	using UPRR tracks. Other DMU operations in California include BART's E-BART, which is on a
26	dedicated track that is not shared with freight, and SMART, which uses heavy-weight FRA
27	compliant DMUs and not light-weight DMUs. Temporal separation is a big issue for a host
28	railroad, especially on busy mainline freight routes such as the Fresno Subdivision, because it
29	requires them to give up operational hours to the exclusive use of passenger trains on the same
30	tracks, which can create logistical delays for freight service.
31	SJRRC contacted UPRR to examine whether or not DMUs would be acceptable on the extension.
32	UPRR replied that, due to concerns about the crash-worthiness of current DMU designs, it will
33	not allow DMUs to operate on the extension <u>(Sheridan pers. comm.)</u> . The DMU designs usually
34	consist of lightweight equipment and to date have only been permitted by the FRA in limited
35	circumstances and areas where temporal separation between heavyweight freight trains and
36	lightweight DMUs on the same line is provided or where operations are on separate lines.
37 38 39 40 41	The Fresno Subdivision between Lathrop and Merced would be shared by ACE and freight, and UPRR is concerned about the mixing of heavyweight and lightweight equipment on this line. It is possible that in the future, development of the DMU technology would result in equipment that would satisfy UPRR's safety concerns, but at this time, this alternative is not considered feasible for the extension to Ceres and Merced.
42 • 43 44	OPS-3: DMU ACE Service. This alternative would use DMUs for the extension to Lathrop and Ceres and Merced and for operations between Stockton and San Jose. <u>In other words, ACE service would be entirely with DMUs.</u> This alternative is similar to the description provided in

1 OPS-2 for DMU operations along the extension to Ceres and Merced, but this alternative does not 2 change the number of trains in service would replace the use of locomotives and carriages for 3 the existing ACE service between Stockton and San Jose with DMUs instead. Thus, this 4 alternative is beyond the scope of this project. Also, since the project does not change the 5 number of trains between Stockton and San Jose, the use of DMUs on that section is not related 6 to any impacts caused by the Proposed Project and thus this alternative would not lower any 7 potential impacts of the project between Stockton and San Jose. 8 There are feasibility concern about Alternative OPS-3 in regards to ridership capacity for the 9 service to San Jose. As described in the ACE forward EIR, ACE's existing trackage rights with 10 UPRR limits the number of daily round trips to San Jose to only 4 daily roundtrips. UPRR has 11 identified that it will require additional track capacity to be installed between Stockton and San 12 Jose in order to allow additional passenger rail slots. As ACE forward is not being advanced at 13 this time, ACE is limited to only 4 daily round trip slots. Thus, any DMU alternative would be 14 subject to the same constraint. 15 The current ACE service has a seated capacity of approximately 840 passengers per train based 16 on 120 seats per each of the 7 bi-level carriages. As explained in Chapter 2, Description of Phase I 17 improvements (Section 2.3.3, Core Capacity, Page 2-22) of the draft EIR, ACE has plans to expand 18 the core capacity of the system to address ridership demands over time through adding 19 additional carriages up to 10 per train, which would increase the seated capacity up to 1,200 20 passengers per train. SIRRC reviewed available DMU equipment for regional service, such as the 21 Alstom Coradia Lint, which is one of the most common DMU systems in use for regional service 22 in Europe. The Coradia Lint has a per car capacity of perhaps 60 to 90 seats/car (Alstom n.d.). 23 comes in one to three-car sets, and up to four sets can be combined in a single 12-car consist. 24 indicating a maximum seated capacity of 720 to 980 seats per train (Stadler n.d.). Other light-25 weight DMU systems in use in the U.S. have similar seated capacities per car as the Coradia Lint. 26 For example, Stadler DMU's used for eBART (2 car sets, 104 seats total), Capital Metro in Texas 27 [2 car sets, 108 seats total], Fort Worth Transportation Authority in Texas (4 car sets, 224 seats 28 total), and New Jersey Transit (2 car sets, 90 seats) have similar or smaller seated capacities as 29 the Coradia Lint (Stadler n.d.). Most of these U.S. system are using the Stadler GTW equipment 30 for which up to 4 sets can be combined in one consist, meaning a maximum capacity of 31 approximately 900 seats per train (for a 16-car consist of four 4-car sets), which is still short of 32 the proposed locomotive and carriage capacity. None of the current U.S. DMU uses are 33 operationally using such long consists, which is what would be necessary for Alternative OPS-3. 34 While a DMU alternative could meet today's seated capacity, it would provide 220 to 480 seats 35 less per train than the Proposed Project, which relies on the current plans for longer 36 conventional train sets. As such, an all DMU Alternative would result in lower ridership than the 37 Proposed Project and thus less congestion, air pollution, and greenhouse gas reduction benefits. 38 In addition, as described for Alternative OPS-2, UPRR will not allow DMUs on their Class 1 39 railroads. Thus, this alternative would not meet the project objectives due to substantially lower 40 ridership potential in the future compared to the Proposed Project and is considered infeasible because UPRR will not permit DMUs at this time. 41 42 If UPRR later allows the use of light-weight DMUs and also allows more passenger train slots 43 westward to San Jose, then it might be possible for a DMU service to provide as much or possibly 44 even more ridership than the Proposed Project and the associated environmental benefits of 45 greater ridership, but that is not the case today.

- The text on Page 6-25 (Lines 6 to 9), in Chapter 6, *Alternatives*, is modified as follows:
   OPS-5: Weekend ACE Service to Union City or existing ACE stations in the Bay Area. The Proposed Project does not change the amount of ACE service to the Bay Area and does not
- include weekend service. <u>The Proposed Project would not require weekend service, but would</u>
   not hinder the provision of weekend service in addition to the Proposed Project, should SJRRC
   choose to implement weekend service separately. Thus, this alternative is beyond the scope of
   the project and would not lower any project adverse significant impacts. This option is under
   consideration by SJRRC separate from the ACE Extension.
- 9 The text on Page 6-25 (Line 22) to Page 6-26 (Line 6), in Chapter 6, *Alternatives*, is modified as 10 follows:
- 11 OUT-1: West Side Line. This alternative was suggested in scoping and consists of reactivating the • 12 West Side line between Tracy and Fresno (distance of approximately <u>123</u> <del>124</del> miles) for use as 13 an exclusive freight line, so that the Fresno Subdivision could be primarily used for passenger 14 trains. The West Side Line exists today between Tracy and 2nd Street in Los Banos 15 (approximately 55.2 57 miles including mileage for a new 0.4 mile connector from the Oakland 16 subdivision to the West Side Line), is owned by UPRR and leased to California Northern, and is 17 rated for 10 to 25 mile per hour speeds only. Southern Pacific abandoned the rail line from Los 18 Banos to Oxalis (approximately 20 miles) and removed the rails in 1993. This segment of the 19 former railroad is now used for non-railroad purposes. South of Oxalis, the rail line exists and 20 proceeds south along SR 33 to Mendota and then eastward through Kerman Fresno 21 (approximately 47.3 miles) and is operated by the San Joaquin Valley Railroad. From Tracy to 22 Los Banos and Oxalis to Fresno, the rail line is in limited use. This alternative would require 23 acquisition of ROW for the 20 miles from Los Banos to Oxalis and construction of trackbed and 24 track through agricultural areas including a 0.5-mile section where the former bed had 25 deteriorated and is now part of larger wetland area. In addition, given the age and status of the 26 other active railroads, it is likely that they would need substantial upgrades to Class 4 I freight 27 track standards.

#### 28 UPRR's Position

29UPRR's comment on the draft EIR clearly states their position that SJRRC will be required to30address any impacts to freight capacity prior to UPRR allowing extension of passenger service.31SJRRC followed up with UPRR about the West Side Line Alternative and UPRR stated that it will32not consider a relocation of their main line (aka the Fresno Subdivision) and they declined to33consider that as a feasible option (Sheridan pers. comm.).

#### 34 Freight Routing and Distances

- 35 There are three freight routes to and from Fresno that are of concern for evaluation of this
   36 Alternative:
- 37 From Stockton to Fresno via the Fresno Subdivision. Based on the 2018 State Rail Plan • 38 (Caltrans 2018), the average existing (2013) daily freight train traffic between Stockton and 39 Fresno is approximately 22 daily trains. In 2040, freight trains will rise to 40. The distance 40 from Stockton to Fresno via the Fresno Subdivision is approximately 118 miles compared to the distance from Stockton to Fresno via Lathrop and the West Side line, which is 41 42 approximately 139 miles. Because this is longer, it is hard to see any motivation for freight 43 between Stockton and Fresno (including Pacific Northwest through-freight or freight from 44 the Bay Area via Martinez and Stockton) to be routed by the West Side Line accordingly.

1	
1	• From Tracy to Fresno via the Oakland Subdivision and Fresno Subdivision. Based on the
2	2018 State Rail Plan (Caltrans 2018), the average existing (2013) daily freight train traffic
3	on the Oakland Subdivision east of Niles is only 4 daily trains, rising to 8 trains in 2040. The
4	Oakland Subdivision east of Niles is constrained by the sharp curves in Niles Canyon and the
5	grades and curves in the Altamont Hills, which is why current and projected use is limited.
6	The distance from Tracy to Fresno via Lathrop and the Fresno Subdivision is approximately
7	123 miles, which is the same 123-mile distance from Tracy to Fresno via the West Side Line.
8	Given these distances are approximately the same, the difference in travel time would be
9	nominal and this is not expected to result in a substantial shift to use of the southerly route.
10	At this moment, it is not reasonably foreseeable that the number of freight trains will
11	increase along the Oakland Subdivision from the Bay Area beyond that forecasted in the
12	<u>State Rail Plan due to the track capacity constraints in Niles Canyon (single track and</u>
13	winding curves) and the Altamont Pass (single track, elevated grade and winding curves)
14	and due to the lack of any planned, programmed, and funded improvements to the Oakland
15	Subdivision east of Niles. It is possible that some of the Bay Area freight routed via Niles and
16	<u>Tracy might use the West Side Line, but given the expense (see below) it is hard to see a</u>
17	financial case for restoring the West Side Line, for little to no gain in travel time.
18	• Local deliveries between Lathrop and Fresno. Local deliveries will still need to be made via
19	the Fresno Subdivision.
20	<u>As such, only some of the Fresno freight traffic would be re-routed to the West Side Line because</u>
21	the current and projected Fresno Subdivision freight will, in all likelihood, remain on the Fresno
22	Subdivision even if the West Side Line were available. Even if all of the Oakland Subdivision
23	freight were to use a West Side Line (which is not certainty as the West Side Line is the same
24	distance current route via the Fresno Subdivision), the Fresno Subdivision freight level in 2040
25	is nearly 5 times the projected amount of Oakland Subdivision freight from Tracy, and thus the
26	Fresno Subdivision would remain in operation to accommodate the majority of through freight
27	operations to Fresno as well as local deliveries.
28	West Side Line Alternative Costs
29	<u>It would be more expensive to restore the West Side Line from Tracy to Fresno than build a</u>
30	second track between Lathrop and Merced. Alternative OUT-1 would require upgrading of the
31	<u>track owned by UPRR from Tracy (Lyoth) to Los Banos from current Class 1 and 2 track</u>
32	<u>standards (allowing only 10 to 25 mph) to Class 4 standards (freight 60 mph, like the Fresno</u>
33	Subdivision); construction of new track including construction in 0.5 miles of wetlands from Los
34	Banos to Oxalis (and acquisition of ROW predominantly in agricultural land); and upgrade of the
35	track from Oxalis to Fresno (and acquisition of trackage rights or purchase of the rail road from
36	the San Joaquin Valley Railroad). A rough cost estimate was developed for the final EIR for a new
37	connector at Lyoth from the Oakland Subdivision to the West Side Line, 103 miles of track
38	<u>upgrades, 20 miles of new track and ROW between Los Banos and Oxalis, and new passing</u>
39	sidings every 20 miles (to allow two-way travel). Using these assumptions, the track and ROW
40	cost of re-establishing the West Side line is estimated as approximately \$735 million. This
41	estimate does not include any estimate of the cost of purchasing or acquiring track rights from

1	<u>the San Joaquin Valley Railroad. This cost is much higher than the \$477 million cost of the</u>
2	second track from Lathrop to Merced (excluding any station or layover facility costs). $^1$
3	West Side Line Alternative and ACE Service and Ridership
4	Alternative OUT-1 would not provide higher speeds and ridership than the Proposed Project
5	because interference with freight would not be minimized. As noted above, most of the Fresno
6	Subdivision freight would not be diverted to the West Side Line and thus it is unlikely that UPRR
7	would agree to priority for passenger service use of the Fresno subdivision between Lathrop
8	and Merced. Since the Proposed Project includes a second track for the Fresno subdivision, there
9	will be opportunities to schedule freight and passenger service to minimize, but not avoid all,
10	potential delays to ACE service. Even if passenger train priority on a single line could be
11	<u>provided, the additional cost (see above) and the remote possibility that UPRR would agree to</u>
12	this alternative (see above) mean that benefits of higher speed and ridership would not likely be
13	<u>realized.</u>
14	West Side Line Alternative Funding
15	This alternative would cost \$258 million for track improvements (not including PTC) more than
16	the Proposed Project. UPRR has no intention to move its mainline (see above) and thus will not
17	provide more than \$250 million in additional funding for a freight line that is longer than the
18	Fresno Subdivision for all of its traffic from Stockton and the same length as its minor freight
19	route from the Bay Area (via the Oakland Subdivision) and thus SJRRC would have to fund the
20	full cost of this Alternative.
21	MOCOCO Line Variant of the West Side Line Alternative
22	The TRAC NOP scoping comment letter includes a map that in addition to the West Side Line
23	improvement also notes "potential upgraded Union Pacific freight access to Ports of Oakland
24	<u>and Richmond" as applying to the MOCOCO line from Tracy to Port Chicago. Neither the TRAC</u>
25	NOP comment letter nor the TRAC draft EIR comment letter says anything in text about the
26	MOCOCO line upgrade.
27	<u>A MOCOCO line upgrade variant to the West Side Line Alternative is analyzed in this EIR, which</u>
28	would include a MOCOCO line upgrade in addition to reestablishment and upgrade of the West
29	Side Line.
30	Freight from the Bay Area and Port of Oakland to and from Fresno via Martinez is currently
31	routed through Stockton and the Fresno Subdivision, a distance of 198 miles. This variant would
32	allow freight from the Bay Area and Port of Oakland to travel via Martinez, then to Port Chicago,
33	then to Tracy via the upgraded MOCOCO line, then the upgraded West Side Line to Fresno, a
34	slightly longer distance of 201 miles. According to the State Rail Plan (Caltrans 2018).
35	approximately 10 trains (in 2013) currently travel on the BNSF line from Port Chicago to
36	Stockton and freight is projected to increase to 20 trains (by 2040). State Rail Plan states there is

<sup>&</sup>lt;sup>1</sup> In addition to the track upgrades, it is probable that Positive Train Control will need to be installed, as the PTC regulation requires the addition of PTC to any track that has passengers (which the West Side Line would not have) or toxic inhalation hazard (TIH) chemicals which can include chlorine, anhydrous ammonia and other industrial chemicals. As the intent of the West Side Line Alternative is to, in essence, make the West Side Line a freight main line to provide freight traffic relief to the Fresno Subdivision, it cannot preclude chemical transport, and thus PTC is expected. The estimated cost of adding PTC to the West Side Line would be an additional \$123 million (estimated as \$1 million per mile), which would be on top of the track upgrades noted above.

1 2	no current or projected freight use of the MOCOCO line. It is not known how many of the 10 to 20 trains on the BNSF line to Stockton are headed south from Stockton and how many of those
3	use the UPRR Fresno Subdivision instead of the BNSF line from Stockton to Fresno. Lacking such
4	data, for the sake of an illustrative example for 2040, it is assumed that 10 trains (50%) go south
5	in Stockton and of those 5 trains (50% of the southward heading trains) go on the UPRR Fresno
6	Subdivision to Fresno and points south. Given these trains are using a BNSF line from the Bay
7	Area, these assumptions are generous. These assumed 5 trains would be out of the 40 trains
8	using the Fresno Subdivision estimated by the State Rail Plan in 2040. Even though the MOCOCO
9	and West Side Line route is longer than the route via Stockton and the Fresno Subdivision (201
10	miles versus 198 miles), for the sake of this analysis, it is assumed that these 5 trains are UPRR
11	trains and UPRR would choose to route them via an upgraded MOCOCO line (owned by UPRR
12	today) and the upgraded West Side Line to Fresno (owned in part by UPRR and presumed to be
13	owned and/or have trackage rights for UPRR in the future). Even if all of the Oakland
14	Subdivision trains in 2040 (8, see above), use the West Side Line in addition to these additional 5
15	trains, there would only be a total of 13 trains using the West Side line compared to 35 trains
16 17	using the Fresno Subdivision in 2040. As such, the EIR's conclusion remains valid that only
17 18	<u>"some", and certainly not "most" of the Fresno Subdivision freight operations would continue on</u> <u>the Fresno Subdivision even if the West Side Line were placed back into operation and the</u>
10	<u>MOCOCO line were upgraded. In that scenario, UPRR would still require a second track on the</u>
20	Fresno Subdivision (like that in the Proposed Project) in order to provide additional passenger
20	slots for ACE.
21	SIOUS IOF ACE.
22	<u>The MOCOCO Line from Port Chicago to Tracy is Class 2, rated for up to 25 mph only. This</u>
23	variant would upgrade approximately 42 miles of the line between Port Chicago and Tracy to
24	<u>Class 4 standards (up to 60 mph freight) along with upgrading and restoring the 123 miles of</u>
25	the West Side Line between Tracy and Fresno. Using the same cost estimating methods as
26	described above for the West Side Line, the MOCOCO line track upgrade would cost
27	approximately \$206 million. These costs would be in addition to the costs for West Side Line
28	upgrade, with totals for this variant of approximately \$941 million for track improvements and
29	ROW. <sup>2</sup>
30	Environmental Impact
31	<u>As shown above, there is no realistic scenario in which UPRR would divert most of its freight to</u>
32	the West Side Line and not require SJRRC to construct a second track along the Fresno
33	Subdivision prior to allowing ACE service. Thus, if this alternative were advanced, it would
34	include upgrading both the West Side Line (and the MOCOCO upgrade in the variant) as well as
35	constructing the Fresno Subdivision second track. This would result in substantially more
36	environmental impact than the Proposed Project.
37	Conclusion
38	For the reasons cited above, this alternative (the West Side Line Alternative and the MOCOCO
39	Line Variant of the West Line Alternative described above) is considered infeasible. As noted
40	above, UPRR will not consider a relocation of their main line from the Fresno Subdivision, so the
41	West Side Line, at best, would be an auxiliary line and would not provide priority for passenger

<sup>&</sup>lt;sup>2</sup> <u>Using the same cost estimating methods as described above for the West Side Line, adding PTC to the MOCOCO</u> <u>line would cost an additional \$42 million. With PTC, the total for track improvements and PTC for both the West</u> <u>Side Line and the MOCOCO line would be \$1.1 billion.</u>

- 1 service on the Fresno Subdivision. Furthermore, the additional cost compared to the Proposed 2 Project of upgrading the West Side Line (and the MOCOCO line in the variant) make this 3 alternative cost-prohibitive. Since there is no scenario in which the UPRR allows ACE to add 4 passenger service to the Fresno Subdivision without constructing an additional track, if the West 5 Side Line were upgraded, then the construction/upgrade along both lines would result in 6 substantially higher construction environmental impacts than the Proposed Project. 7 Despite these construction challenges and costs, even if the West Side Line could be put into full 8 freight operations, UPRR will not let ACE use the Fresno Subdivision from Lathrop to Merced 9 without installation of a new second track. The Fresno Subdivision is UPRR's primary freight 10 route in the northern San Joaquin Valley and serves many customers between Lathrop and Merced that cannot be served by the West Side Line and thus UPRR will want to maintain its 11 freight capacity on the Fresno Line. If the West Side Line were to be put back into action, it 12 13 would be to serve freight from the Bay Area to Fresno and points south and not customers 14 between Fresno and Lathrop. Thus, this alternative would have to include both the second line from Lathrop to Merced (for UPRR to allow ACE to use the Fresno Subdivision) and the West 15 16 Side Line. While this alternative might divert some freight traffic from the Fresno Subdivision, it would be cost prohibitive to ACE and would not deliver any meaningful improvements in ACE 17 18 service from Merced compared to the Proposed Project. 19 Thus, due to financial costs, logistical constraints with UPRR's approach to maintaining freight
- capacity, and greater <u>construction</u> environmental impacts than the Proposed Project, this
   alternative was dismissed from further consideration.

## 22 Chapter 9, References

#### 23 Section 4.2, Agricultural Resources

- The text on Page 9-6 (Lines 31 to 34), in the subheading Section 4.2, Agricultural Resources in
  Chapter 9, *References* is revised as follows:
- 26 <u>City of Livingston. 1999. General Plan. December.</u>
- 27City of Livingston. 2008. 2025 General Plan. Adopted October 2008. Available:28http://www.livingstoncity.com/index.asp?Type=B\_BASIC&SEC=%7B1476A705-58D2-294F07-944B-384BA40EC0E6%7D&DE=%7B1AF178A4-F115-4EDF-9972-
- 30 5FD907BB6FDD%7D. Accessed: March 2018.

#### 31 Section 4.3, Air Quality

- The text on Page 9-8 (Line 37), in the subheading Section 4.3, Air Quality in Chapter 9, *References* is revised as follows:
- 34 <u>City of Livingston. 1999. General Plan. December.</u>
- 35 City of Livingston. 2008. City of Livingston 2025 General Plan. Adopted October 2008.

#### 1 Section 4.4, Biological Resources

The text on Page 9-12 (Lines 1 to 5), in the subheading Section 4.4, Biological Resources in Chapter
9, *References* is revised as follows:

- 4 -----. 2018b. *The CNPS Ranking System*. Available:
   5 http://www.cnps.org/cnps/rareplants/ranking.php. Accessed: February 2018.
   6 <u>Caltrans. 2015. Technical guidance for assessment and mitigation of the hydroacoustic effects of</u>
   7 <u>pile driving on fish. November. Sacramento, CA.</u>
- 8 City of Atwater. 1991. Municipal Code: *Chapter 12.32 Trees*. Available:
   9 https://www.municode.com/library/ca/atwater/codes/code\_of\_ordinances?nodeId=TIT
   10 12STSIPUPL\_CH12.32TR. Accessed: January 2016.
- 11The text on Page 9-12 (Line 1 to 5), in the subheading Section 4.4, Biological Resources in Chapter 9,12*References* is revised as follows:
- National Oceanic and Atmospheric Administration. 2016. Essential Fish Habitat Mapper.
   Available: http://www.habitat.noaa.gov/protection/efh/habitatmapper.html. Accessed:
   February 2018.
- Popper, A. N., T. J. Carlson, A. D. Hawkins, B. L. Southall, and R. L. Gentry. 2006. Interim Criteria
   for Injury of Fish Exposed to Pile-Driving Operations: A White Paper. May.
- San Joaquin County. 1995. *Municipal Code: Chapter 9, Division 15: Natural Resources Regulations, Section 1505: Trees.* Available: https://www.sjgov.org/commdev/cgi bin/cdyn.exe/handouts-planning\_ca\_sjc\_dev\_T09-D15?grp=handouts planning&obj=ca\_sjc\_dev\_T09-D15. Accessed: January 2016.

### 22 Section 4.11, Land Use and Planning

- The text on Page 9-24 (Line 13), in the subheading Section 4.11, Land Use and Planning in Chapter 9,
   *References* is revised as follows:
- 25 <u>City of Livingston. 1999. General Plan. December.</u>
- 26 City of Livingston. 2008. City of Livingston 2025 General Plan. Adopted October 2008.

#### 27 Section 4.12, Noise and Vibration

- The text on Page 9-26 (Line 15), in the subheading Section 4.12, Noise and Vibration in Chapter 9,
   *References* is revised as follows:
- 30 <u>City of Livingston. 1999. General Plan. December.</u>
- 31 City of Livingston. 2008. City of Livingston 2025 General Plan. Adopted October 2008.
- The text on Page 9-26 (Lines 34 to 35), in the subheading Section 4.12, Noise and Vibration in Chapter 9, *References* is revised as follows:
- Federal Railroad Administration. 2006. *Transit Noise and Vibration Impact Assessment*. FTA
   Report FTA-VA-90-1003-06. May 2006.

Federal Transit Administration. 2006. Transit Noise and Vibration Impact Assessment. FTA
 Report FTA-VA-90-1003-06. May 2006.

#### 3 Section 4.13, Population and Housing

- 4 The text on Page 9-27 (Line 18), in the subheading Section 4.13, Population and Housing in Chapter
- 5 9, *References* is revised as follows:
- 6 <u>City of Livingston. 1999. General Plan. December.</u>
- 7 City of Livingston. 2008. City of Livingston 2025 General Plan. Adopted October 2008.

#### 8 Section 4.14, Public Services

- 9 The text on Page 9-28 (Line 31), in the subheading Section 4.14, Public Services in Chapter 9,
- 10 *References* is revised as follows:
- 11 <u>City of Livingston. 1999. General Plan. December.</u>
- 12 City of Livingston. 2008. City of Livingston 2025 General Plan. Adopted October 2008.

#### 13 Section 4.17, Transportation and Traffic

#### 14 **Printed References**

- 15 The text on Page 9-36 (Line 13), in the subheading Section 4.17, Transportation in Traffic in Chapter
- 16 9, *References* is revised as follows:
- 17 <u>City of Livingston. 1999. General Plan. December.</u>
- 18 City of Livingston. 2008. City of Livingston 2025 General Plan. Adopted October 2008.

#### **19 Personal Communications**

- The text on Page 9-39 (Line 8), in the subheading Section 4.17, Transportation in Traffic in Chapter
  9, *References* is revised as follows:
- 22McWethy, Laura. Associate Travel Demand Forecaster. AECOM, August 31, September 20, 22, 23,23October 3, 20, 21, 2016; February 9, 14, 15, 24, 27, March 1, 9, and 14, 2017—Email24communications regarding ACE*forward* ridership model.

#### 25 **Chapter 6, Alternatives**

- The text on Page 9-46 (Lines 20 to 26), in the subheading Chapter 6, Alternatives in Chapter 9,
   *References* is revised as follows:
- 28Alameda County Transportation Commission. 2016. Alameda County Goods Movement Plan.29February. Available:30http://www.alamedactc.org/files/managed/Document/18249/AlamedaCTC\_GoodsMove31mentPlan\_FINAL.pdf.

1	<u>Alstom. No Date. Coradia Lint Regional Train. Available: http://www.alstom.com/products-</u>
2	services/product-catalogue/rail-systems/trains/products/coradia-lint-regional-train/.
3	<u>Accessed: July 2018.</u>
4	City of Merced. 2015. <i>Merced City General Plan Map, Amended</i> . April. Available:
5	https://www.cityofmerced.org/civicax/filebank/blobdload.aspx?BlobID=11489.
6	Accessed: January 2018.
7 8 9 10	Merced County. n.d. <i>Merced County GIS Information Portal, Merced County General Plan Designation Application</i> . Available: https://mercedcounty.maps.arcgis.com/apps/View/index.html?appid=3d1bf43838f34d0 6b84346df4bacf1ef. Accessed: January 2018.
11	<u>Nelson, David, Blakey and O'Neill. 2017. Diesel Multiple Units in 21st Century North America: A</u>
12	<u>Comparative Survey and Evaluation of Services, Demand, and Costs. Transportation</u>
13	<u>Research Record: Journal of the Transportation Research Board. Volume 2648. Available:</u>
14	https://trrjournalonline.trb.org/doi/abs/10.3141/2648-05 <u>.</u>
15	San Joaquin Regional Rail Commission. 2017. ACEforward Draft Environmental Impact Report.
16	May. Available: http://www.acerail.com/About/Public-Projects/ACEforward/DEIR.
17	<u>Sheridan, Kevin. Director of Capital Projects. San Joaquin Regional Rail Commission. June 5,</u>
18	2018 and July 15, 2018— emails from Clint Schelbitzki, Union Pacific Railroad regarding
19	DMU Use on UPRR and potential relocation of the Fresno Subdivision mainline.
20	<u>Stadler. No Date. Overview of References. Available:</u>
21	https://www.stadlerrail.com/en/references/overview-references/. Accessed: July 2018.

# 22 Appendix G, Regional Plans and Local General Plans

23	Table G-1 on page G-3 has been revised as follows:									
	City of Livingston									
	City of Livingston 2025 General Plan (City of Livingston 2008)									
	<u>City of Livingston General Plan (City of Livingston 1999)</u>									

#### 24 G.1 Aesthetics

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25 Pages G-14 to G-15 have been revised as follows:

# 26 City of Livingston 2025 General Plan (City of Livingston 2008) City of Livingston 27 General Plan (City of Livingston 1999 2008)

- Land Use Policy 3.1-A-<u>10</u>11. Exterior area lighting for non-residential land uses shall be shielded to prevent line of sight visibility of the light source from abutting property planned for <u>single-family</u> residential.
- Land Use Policy 3.4-A-54. Industrial development should not create significant off-site
   circulation, noise, dust, odor, visual, and hazardous materials impacts that cannot be
   adequately mitigated.

1 2	• Land Use Policy 3.4-A-5. Major streets, which serve as entrances to the City, shall receive special design treatment to reduce aesthetic impacts and traffic concerns.
3 4 5	<ul> <li>Open Space, Conservation, and Recreation Policy 5.2-A-19. New development should incorporate native vegetation into landscape plans and discourage the use of invasive, non- native plant species.</li> </ul>
6 7 8	• Open Space, Conservation, and Recreation Policy 5.3-A-2. Encourage the use of recycled water and drought-tolerant landscaping in municipal facilities, public roadway landscape, and new development projects.
9 10	• <b>Community Design Objective 7.1-A</b> . Improve the appearance of city streets and reduce visual clutter along the City's main thoroughfares/corridors.
11 12 13 14 15 16 17 18	• <b>Community Design Policy 7.1-A-5.</b> Establish coordinated and distinctive signage, accent plantings and paving materials for entries into the City. Locations for this treatment are Winton Parkway, Hammett Avenue, Main Street at Magnolia and Olive. As primary entrances to the City, these streets should reflect higher standards of development. Standards should contain provisions for minimum building setbacks, landscaping, sidewalk pattern and street furniture, with distinction made between upgrade of existing uses and new development. Proper orientation, design and architectural features shall be regulated through zoning and the site plan review process.
19 20 21	• <b>Community Design Policy 7.1-A-7.</b> Development standards shall be adopted for the gateways to the City to improve the practical function and aesthetic quality of those areas. Policy 3.4.A.5 shall be used as an interim standard until other standards are adopted.
22 23 24	• <b>Community Design Policy 7.1-A-9.</b> All development proposals shall include preparation and implementation of a lighting plan to ensure compatibility with and to minimize impacts to adjoining land uses.
25 26	• <b>Community Design Policy 7.3-A-123</b> . The planting of street trees is encouraged for all existing and new commercial, industrial, and public facilities development.
27 28 29	• <b>Community Design Policy 7.3-A-1<u>34</u>.</b> Buildings, landscaping, parking, and other development features shall be arranged in a manner that is compatible with the size, scale, and appearance of nearby development.
30 31	• <b>Community Design Policy 7.3-A-15.</b> Landscaped areas should be clustered on a site to maximize their effect on the public view.
32 33 34 35	• <b>Community Design Policy 7.3-A-16.</b> Landscaping should be used to define areas such as entrances to building and parking lots, define edges of various land uses, provide transition between neighboring properties (buffering), and provide screening for outdoor storage, loading and equipment areas.
36 37	• <u>Community Design Policy 7.3-A-17.</u> Landscaping should be in scale with adjacent buildings and be of appropriate size at maturity to accomplish its intended purpose.
38 39	• <b>Community Design Objective 7.3-B.</b> Ensure that industrial development is attractive and of high-quality design, to enhance the image of the city.
40 41	• <u><b>Community Design Policy 7.3-B-3.</b> Encourage the planning of street trees for existing and new industrial development.</u>

- 1 • Community Design Policy 7.3-A-26. All new commercial and public facilities development 2 shall comply with the City of Livingston Design Guide. 3 Community Design Policy 7.3-A-27. Vegetative screening shall be installed around all new 4 water detention facilities including detention basins and water tanks. (MM) **G.2 Agricultural Resources** 5 6 Page G-24 has been revised as follows: 7 City of Livingston 2025 General Plan (City of Livingston 2008) City of Livingston General Plan (City of Livingston 1999 2008) 8 9 • Land Use Policy 3.5-C-1a. Resource Conservation Area. This land use category provides 10 for an area of separation between the City of Livingston and the City of Atwater. It is 11 intended that this category be preserved as a permanent agriculture/open space area. 12
  - Land Use Policy 3.5-C-2. Urban development is not permitted within the Resource Conservation Area land use designation.
  - Land Use Policy 3.5-C-5. The City should establish a program for the purchase of development rights on the lands within the Resource Conservation Area by establishing a fee imposed on all development that displaces agricultural land.
- Open Space, Conservation, and Recreation Objective 5.1-A. Preserve prime farmland,
   farmland of statewide importance, and important agricultural operations within the City of
   Livingston Sphere of Influence <u>until logical and orderly urban growth is appropriate</u>.
- Open Space, Conservation, and Recreation Policy 5.1-C-1. Maintain a 20-acre minimum
   parcel size for Reserve designated parcels to encourage viable agricultural operation and to
   prevent parcelization into rural residential or "ranchette" developments.
- Urban Boundary Objective 6.1-B. Preservation of the productive agricultural land around
   Livingston and minimization of conflicts between agricultural and urban uses.

#### 25 G.3 Air Quality

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26 Page G-31 has been revised as follows:

27 28	City of Livingston 2025 General Plan (City of Livingston 2008) City of Livingston General Plan (City of Livingston <u>1999</u> <del>2008</del> )
29	• <b><u>Circulation Objective 4.5-A.</u></b> Maximize the efficiency of the existing street system.
30 31	• <u>Circulation Objective 4.5-B.</u> Encourage the proximity of compatible land uses to reduce <u>unnecessary automobile travel.</u>
32 33	• <u>Circulation Policy 4.5-B-1</u> . The City encourages the use of energy efficient and non- polluting modes of transportation.
34 35	• <b>Circulation Policy 4.8-C-2.</b> A multi-modal transportation system shall be planned that meets the needs of the community and improves air quality.

1		tion Objective 4.9-C. A safe and convenient public transit system that meets the
2	<u>needs o</u>	<u>f all the economic segments of the community.</u>
3		pace, Conservation, and Recreation Policy 5.2-B-2 <u>5</u> . To assist the City in meeting
4		n air quality requirements of the federal and state Clean Air Acts, the San Joaquin
5	-	Inified Air Pollution Control District will be consulted to provide community
6	plannin	g guidance to help reduce potential air quality impacts.
7		pace, Conservation, and Recreation Policy 5.2-B-38. New construction activities
8		mply with the PM-10 control measures as set forth by the San Joaquin Valley Unified
9	Air Poll	ution Control District's Guide for Assessing and Mitigating Air Quality Impacts.
10	Open S	pace, Conservation, and Recreation Policy 5.2-B- <u>9</u> 4. The Guide for Assessing and
11	Mitigati	ng Air Quality Impacts <del>shall</del> <u>will</u> be used to evaluate and mitigate the effects of new
12	develop	ments to the extent feasible.
10	G.4 En	orau
13	0.4 EII	ergy
14	Page G-35 has b	een revised as follows:
15	<u>City of Livi</u>	ngston 2025 General Plan (City of Livingston 2008) City of Livingston
16	-	an (City of Livingston <u>1999</u> <del>2008</del> )
17	• <u>Circula</u>	tion Policy 4.5-B-1. The City encourages the use of energy efficient and non-
18	<u>pollutin</u>	g modes of transportation.
19	• <u>Circula</u>	tion Policy 4.5-B-3. Promote the long term shifting of peak hour commute trips
20	<u>from th</u>	e single occupant automobile to ridesharing, buses, pedestrian, and bicycles.
21	• <u>Circula</u>	tion Objective 4.9-C. A safe and convenient public transit system that meets the
22		f all the economic segments of the community.
23	Open S	pace, Conservation, and Recreation Objective 5.3-A. Reduce consumption of non-
24	renewa	ble energy sources in Livingston.
25	0 <del>0p</del>	en Space, Conservation, and Recreation Policy 5.3-A-7. The City shall encourage
26	ene	rgy-efficient "green buildings" as certified by the U.S. Green Building Council's LEED
27	<del>(Le</del>	adership in Energy and Environmental Design) Program or equivalent certification.
28	0 <del>Ор</del> е	en Space, Conservation, and Recreation Policy 5.3-A-9. During development
29		ew, the City shall require facilities in new developments to accommodate and
30	enc	<del>ourage recycling.</del>
31		en Space, Conservation, and Recreation Policy 5.3-A-12. The increased use of
	o <del>Opo</del> <del>put</del>	

## 34 G.5 Biological Resources

35 Pages G-48 to G-49 have been revised as follows:

1 2			- Livingston 2025 General Plan (City of Livingston 2008) <u>City of Livingston</u> al Plan (City of Livingston <u>1999</u> <del>2008</del> )
3 4 5		• Op	<b>Den Space, Conservation, and Recreation Objective 5.2-A.</b> Protect natural resources, cluding groundwater, soils, and air quality, to meet the needs of present and future nerations.
6 7		0	<b>Open Space, Conservation, and Recreation Policy 5.2-A-6</b> . Promote biological diversity and the use of plant species compatible with the bio-region
8 9 10		0	<b>Open Space, Conservation, and Recreation Policy 5.2-A-7.</b> If street trees are removed, they shall be replaced with tree species specified on the City's Street Tree Master Plan
11 12 13 14		0	<b>Open Space, Conservation, and Recreation Policy 5.2-A-810.</b> Properties which have the potential to support listed plant and animal species will be required to have a biological investigation as a condition of development. Surveys for species shall follow both federal and state protocols
15 16 17		0	<b>Open Space, Conservation, and Recreation Policy 5.2-A-9.</b> The City shall protect and preserve open space and undisturbed natural areas. The City shall protect sensitive habitat, including creeks, from encroachment by livestock and human activities
18 19 20		0	<b>Open Space, Conservation, and Recreation Policy 5.2-A-10.</b> The City shall protect all remaining riparian habitat to ensure there is "no net loss". This shall be achieved through avoidance, restoration, ore creation of new riparian habitat
21 22 23 24		0	<b>Open Space, Conservation, and Recreation Policy 5.2-A-11.</b> The City shall protect all significant trees that are six inches or greater in dbh. Significant trees are those making substantial contribution to natural habitat or to the urban landscape due to their species, size or rarity.
25 26 27 28 29 30		0	Open Space, Conservation, and Recreation Policy 5.2-A-16. Continuous wildlife habitat, including corridors free of human disruption, shall be preserved and where necessary, created by interconnecting open spaces, wildlife habitat, and corridors. The City shall consider loss of wildlife habitat and connectivity when evaluating new development projects. The City shall strive to retain and connect existing wildlife habitat within the city limits through open space, trails, or other corridors.
31 32 33		0	Open Space, Conservation, and Recreation Policy 5.2-A-18. Construction activities shall be regulated to inhibit the establishment of noxious weeds through accidental seed import.
34 35 36		0	<b>Open Space, Conservation, and Recreation Policy 5.2-A-19.</b> New development should incorporate native vegetation into landscape plans and discourage the use of invasive, non-native plant species.
37	G.10		Hydrology and Water Quality

#### Hydrology and Water Quality 37 **G.10**

Pages G-142 to G-143 have been revised as follows: 38

1 2	<del>City of Livingston 2025 General Plan (City of Livingston 2008)</del> <u>City of Livingston</u> <u>General Plan</u> (City of Livingston <u>1999</u> <del>2008</del> )
3 4 5	• <b>Open Space, Conservation, and Recreation Objective 5.2-A</b> . Protect natural resources, including groundwater, soils, and air quality, to meet the needs of present and future generations.
6 7 8 9	<ul> <li>Open Space, Conservation, and Recreation Policy 5.2-A-1. Protect areas of natural groundwater recharge from land uses and disposal methods, which <u>combine</u> <u>stormwater control, and water recharges.</u> would degrade groundwater quality. Promote activities that combine stormwater control and water recharges.</li> </ul>
10 11 12	<ul> <li>Open Space, Conservation, and Recreation Policy 5.2-A-3. No urban level development shall be approved in the City unless the development is, or can be served by the City sewer system.</li> </ul>
13 14 15 16	• <b>Open Space, Conservation, and Recreation Objective 5.2-B.</b> Ensure that environmental hazards, including potential flooding and impacts from agricultural practices and urban development, are adequately addressed in the development process within the City and the Livingston Sphere of Influence.
17 18 19 20 21	<ul> <li>Open Space, Conservation, and Recreation Policy 5.2-B-1. The City shall encourage the use of Low Impact Development (LID) standards in new development projects to reduce the impacts of stormwater runoff and to reduce pollutant loads in waterways. LID techniques that may be considered include bio-swales, bio retention, green roofs, permeable paving, cisterns, tree box filters, and other appropriate techniques.</li> </ul>
22 23	• <b>Public Services and Facilities Policy 9.1-A-7C-10</b> . Development in floodway areas shall be in accordance with regulations of the Federal Emergency Management Agency.
24 25 26	• <b>Public Services and Facilities Policy 9.1-</b> <i>A</i> <b>-1</b> <i>C</i> <b>-20</b> . Conditions of approval shall be implemented with each development to assure that the necessary water production, distribution, and/or treatment facility is in place prior to issuance of a building permit.
27 28 29 30 31 32 33	• <b>Public Services and Facilities Policy 9.1-B-4C-13</b> . Temporary drainage facilities such as ponding basins may be constructed by the developer if the major facilities are not available, subject to City determination and approval. Approval will only be granted under the agreement that a permanent solution that would allow for the decommissioning of applicable temporary storm drainage basins within a reasonable time frame is imminent. The developer will also be required to pay all applicable drainage fees in addition to constructing temporary facilities at his own cost.
34 35	• <b>Public Services and Facilities Objective 10.4-A.</b> Protect the lives and property of residents from the hazards of flooding.
36 37 38 39	• <b>Public Services and Facilities Objective 10.4-A-1.</b> Consistent with <u>F</u> ederal standards, the City shall plan for storm drainage facilities sufficient to address a 100-year flood event and require adequate storm drainage facilities to prevent flooding within the community.
40 41 42	<ul> <li>Public Services and Facilities Objective 10.4-A-2. The City will maintain the <u>Ss</u>torm <u>Dd</u>rainage <u>Mm</u>aster <u>Pp</u>lan for the City, including planned growth areas, and require that development conform to it.</li> </ul>

1•Public Services and Facilities Objective 10.4-A-3. Development proposals shall be2analyzed according to the Storm Drainage Master Plan Storm Drain Collection System3Study and Master Plan. Development not within an existing mMaster pPlan watershed4area may be included in the boundaries of an adjacent area and subject to a revision of5facilities and cost allocation thereof.

#### 6 G.11 Land Use and Planning

7 Page G-157 has been revised as follows:

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8 City of Livingston 2025 General Plan (City of Livingston 2008) City of Livingston
 9 General Plan (City of Livingston 1999 2008)

- Land Use Policy 3.1-A-1. No development shall be approved unless it is found to be consistent with the adopted Land Use Map and policies of the General Plan.
- Land Use Policy 3.1-A-6. The Conditional Use Permit process shall be used where site
   conditions or project location will affect land use compatibility. Findings required for
   approval shall include:
  - a. The site for the proposed use is adequate in size and shape to accommodate said use and all yards, spaces, walls and fences, parking, loading, landscaping, and other features required by the applicable zone district.
    - b. The site for the proposed use is served by streets and highways adequate to carry the quantity and kind of traffic generated by the proposed use.
    - c. Public facilities are currently adequate to serve the proposed use or improvements are included in an approved Capital Improvement Plan or otherwise will be complete prior to the issuance of building permits.
      - d. The proposed development is consistent with the General Plan Land Use Map and policies.
- Land Use Policy 3.3-CB-2. In order to encourage the integration of neighborhood and
   community commercial uses into neighborhoods, designs should de-emphasize the usage of
   walls as buffers where they create barriers to pedestrian access. Continuous block walls
   shall be discouraged, and offsets, landscaping pockets and openings shall be encouraged.
- 29 G.12 Noise and Vibration
- 30 Pages G-164 to G-166 have been revised as follows:

# 31 City of Livingston 2025 General Plan (City of Livingston 2008) City of Livingston 32 General Plan (City of Livingston 1999 2008)

- 33 <u>Circulation Policy 4.9-B-4.</u> Ensure that heavy vehicles utilize Livingston's truck routes as a guide for maintaining an efficient circulation system.
- Noise Objective 8.1-A. To protect the citizens of the City from the harmful and annoying
   effects of exposure to excessive noise.

1 2		<b>ise Objective 8.1-B.</b> To protect the economic base of the City by preventing incompatible d uses from encroaching upon existing or planned noise-producing uses.
3 4		ise Objective 8.1-C. To preserve the tranquility of residential areas by preventing noise- ducing uses from encroaching upon existing or planned noise-sensitive uses.
5 6 7	pla	i <b>se Objective 8.1-E</b> . To emphasize the reduction of noise impacts through careful site nning and project design, giving second preference to the use of noise barriers and/or actural features to buildings containing noise-sensitive land uses.
8 9 10 11 12	0	<b>Noise Policy 8.1-1.</b> Table 8-1 depicts the ranges of noise exposure from transportation noise sources which are considered to be acceptable, conditionally acceptable, or conditionally unacceptable for the development of different land uses. Table 8-1 shall be used to determine whether mitigation is needed for development of land uses near major transportation noise sources.
13 14		a) In areas where the noise environment is acceptable, new development may be permitted without requiring noise mitigation.
15 16 17 18		<ul> <li>b) For areas where the noise environment is conditionally acceptable, new development shall be allowed only after noise mitigation has been incorporated into the design of the project to reduce noise exposure to the levels specified by the Noise Element.</li> </ul>
19 20 21		c) For areas where the noise environment is conditionally unacceptable, new development in compliance with the policies of the Noise Element may not be feasible.
22 23 24	0	<b>Noise Policy 8.1-</b> <u>34</u> . Noise created by new transportation noise sources, including roadway improvement projects, shall be mitigated so as not to exceed the noise levels specified in Table 8-2.
25 26	0	Noise Policy 8.1-7. Ensure that heavy vehicles utilize Livingston's truck routes as a guide for maintaining an efficient circulation system.
27 28	0	<b>Noise Policy 8.1-117</b> . The preferred method of noise control is thoughtful site design. Secondarily, noise control should be achieved through the use of noise barriers.
29 30	0	<b>Noise Policy 8.1-128</b> . Development plans, programs, and proposals shall not be approved unless they are in compliance with the policies of the Noise Element.
31 32 33 34	0	<b>Noise Policy 8.1-139</b> . Prior to approval of the proposed development in a noise impacted area, or the development of an industrial, commercial, or other noise generating land use in or near an area containing existing or planned noise-sensitive land uses, an acoustical analysis may be required if:
35 36 37 38		a) The existing or projected future noise exposure at the exterior of buildings which will contain noise sensitive uses or within proposed outdoor activity areas (patios, decks, backyards, pool areas, recreation areas, etc.) may exceed 65 dB Ldn (or CNEL).
39		b) Interior residential noise levels resulting from off-site noise may exceed 45 dBA.
40	0	Noise Policy 8.1-1410. When noise studies are necessary they shall:
41		a) Be the responsibility of the applicant.

1 2		b) Be prepared by an individual or firm with demonstrable experience in the fields of environmental noise assessment and architectural acoustics.
3 4		c) Include representative noise level measurements with sufficient sampling periods and locations to adequately describe local conditions.
5 6		d) Include estimated noise levels for existing and projected future (10-20 years hence) conditions, with a comparison made to the adopted policies of the Noise Element.
7 8		e) Include recommendations for appropriate mitigation measures to achieve compliance with the adopted policies and standards of the Noise Element.
9 10		f) Include estimate of noise exposure after the prescribed mitigation measures have been implemented.
11	G.14	Public Services
12	Page G-17	75 has been revised as follows:
13 14	-	<del>ivingston 2025 General Plan (City of Livingston 2008)</del> <u>City of Livingston</u> <u>Plan</u> (City of Livingston <u>1999</u> <del>2008</del> )
15 16 17 18 19	a o T	<b>rban Boundary Policy 6.2-B-2.</b> The City will only approve development proposals dequately funded through the developer, City, or other funding mechanism that ensures an ngoing level of public service and facilities that meets the City's established service levels. he initial cost of improving facilities and services, as well as the ongoing operation and naintenance of these facilities and services, will be taken into consideration.
20 21		<b>ublic Services and Facilities Policy 10.2-A-2</b> . The standard of one fire company for every 0,000 residents shall be used to evaluate fire protection services.
22 23		<b>ublic Services and Facilities Policy 10.2-A-3</b> . The City's fire service response goal shall e <del>6</del> six minutes from "tone-out" to arrival on scene.
24 25		<b>ublic Services and Facilities Policy 10.3-A-1</b> . Maintain a police staffing ratio of one worn officer for every 1,000 residents.
26	G.15	Recreation
27	Page G-17	77 has been revised as follows:
28 29	-	<del>ivingston 2025 General Plan (City of Livingston 2008)</del> <u>City of Livingston</u> <u>Plan</u> (City of Livingston <u>1999</u> <del>2008</del> )
30 31 32	0	<b>pen Space, Conservation, and Recreation Objective 5.<u>3</u>4-A.</b> To provide recreational pportunities for the existing community and projected population in future growth areas-in ecordance with the Parks and Recreation Master Plan.
33 34	0	<b>Open Space, Conservation, and Recreation Policy 5.4-A-6.</b> Encourage developers to design and build parks, especially neighborhood parks, in lieu of paying fees.
35 36	0	<b>Open Space, Conservation, and Recreation Policy 5.4-A-3227</b> . Efforts should be made to reuse abandoned railroad rights-of-way for regional recreational bike trails.

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#### 1 G.16 Safety and Security

2 Page G-186 has been revised as follows:

# 3 City of Livingston 2025 General Plan (City of Livingston 2008) City of Livingston 4 General Plan (City of Livingston 1999 2008)

• <u>**Circulation Policy 4.4-A-24.3/A/2</u>**. The street network shall provide a quick and efficient route for emergency vehicles, including police, fire and other vehicles, when responding to calls for service. The length of single-entry access routes shall be restricted.</u>

#### 8 G.17 Transportation and Traffic

9 Page G-196 has been revised as follows:

# 10 City of Livingston 2025 General Plan (City of Livingston 2008) City of Livingston 11 General Plan (City of Livingston 1999 2008)

- Circulation Policy 4.19-A-119. The City designates Service Level "DC" as defined in the Highway Capacity Manual (published by the Transportation Research Board of the National Research Council) as the minimum desirable service level at which arterial streets and collector streets should operate. All new facilities in these categories shall be designed to operate at this level or better for a period of at least 20 years following their construction.
  - **Circulation Policy 4.12-A-164**. No development shall be approved unless it is found to be consistent with the adopted Circulation Element and policies of the General Plan.
- Circulation Policy 4.2-A-1. Move heavy truck traffic efficiently through the City using truck
   routes as designated on Figure 4-5.
  - Circulation Policy 4.2<u>3</u>-A-2. Route heavy traffic to designated Major Arterial, Minor Arterial, and Collector arterial and collector streets only and away from Local Residential Streets.
  - **Circulation Policy 4.2**<u>3</u>-A-3. Provide adequate access to busy destination points such as shopping centers, recreational sites, and employment centers.
  - **Circulation Policy 4.2<u>3</u>-B-1**. Pursue expansion of industrial facilities that will use railroad freight services.
  - **Circulation Policy 4.34-A-2**. The street network shall provide a quick and efficient route for emergency vehicles, including police, fire and other vehicles, when responding to calls for service. The length of single-entry access routes shall be restricted.
  - Circulation Policy 4.<u>34</u>-A-3. SH 99, Livingston-Cressey Road, Main Street, B Street, Campbell Avenue, and Walnut Avenue are designated as vehicular evacuation routes out of the City (Figure 4-<u>64</u>).
    - **Circulation Policy 4.34-B-1**. Minimize hazardous encounters among all transportation modes by utilizing special safety techniques and precautions at intersecting points.
  - **Circulation Policy 4.34**-C-78. Developers shall mitigate traffic impacts associated with their projects.

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- **Circulation Policy 4.4<u>5</u>-A-1**. The City encourages the use of energy efficient and non-polluting modes of transportation.
  - **Circulation Policy 4.8-A-1**. Foster alternative forms of transportation aimed at reducing vehicle trips and encouraging pedestrian and bicycle mobility, carpooling, and use of transit.

#### 5 G.18 Utilities and Service Systems

6 Page G-203 has been revised as follows:

# 7 City of Livingston 2025 General Plan (City of Livingston 2008) City of Livingston 8 General Plan (City of Livingston 1999 2008)

- **Community Design Policy 7.1-A-2.** The undergrounding of utilities along the City's main corridors is a priority. In developing areas, new development projects shall place all utility lines underground. The City will also explore a range of options for undergrounding utilities in existing developed areas.
- Public Services and Facilities Policy 9.1-A-119. The City shall require the connection of
   existing and new businesses, residences, and industries to the City's water and sewer
   system. The City shall establish fees which enable it to recover the costs of such connection.
- Public Services and Facilities Policy 9.1-A-1224. Conditions of approval shall be
   implemented with each development to assure that the necessary sewer collection facility is
   in place and/or wastewater treatment plant and adequate disposal capacity is available
   prior to issuance of a building permit.
- Public Services and Facilities Policy 9.1-A-16. Conditions of approval shall be
   implemented with each development to assure that the necessary sewer collection facility is
   in place and/or wastewater treatment plant and adequate disposal capacity is available
   prior to issuance of a building permit.
- Public Services and Facilities Policy 9.1-B-15. Developers shall prepare an infrastructure and public services assessment as part of each annexation application to determine infrastructure needs, feasibility, timing, and financing.

#### 27 G.19 References

28 Pages G-207 to G-208 have been revised as follows.

#### 29 City of Tracy

- 30 City of Tracy. 2002. City of Tracy Municipal Code, Chapter 7.08 Trees and Shrubbery.
- 31 . 2005a. City of Tracy Bikeways Master Plan. April.
- 32 ——. 2005b. City of Tracy Municipal Code, Chapter 11.34 Stormwater Management and
   33 Discharge Control.
- 34 <u>— . 2009. City of Tracy Downtown Specific Plan. March.</u>
- 35 <u>——. 2011. City of Tracy General Plan.</u>

1 2	. 2012. Ellis Specific Plan. Amended December 2012. Prepared by: The Surland Companies.
3	———. 2013. City of Tracy Municipal Code, Chapter 11.30 Recycled and Non-Potable Water.
4	———. 2015. City of Tracy Municipal Code, Chapter 11.50 Recycleu and Non-Fotable Water.
5	———. 2016. Tracy Hills Specific Plan. Adopted April 5, 2016.
6	Page G-209 has been revised as follows.
7	City of Livingston
8 9	City of Livingston. 1993. City of Livingston Municipal Code, Chapter 9-11 Water Efficient Landscaping and Irrigation.
10	———. 1995. City of Livingston Municipal Code, Chapter 4-5 Floodplain Management.
11	<u>———. 1999. General Plan. December.</u>
12	———. 2000. City of Livingston Municipal Code, Chapter 9-6 Sewers Service Systems.
13 14	———. 2005. City of Livingston Municipal Code, Chapter 5-4 General Site Development Regulations.
15	———. 2006. City of Livingston Municipal Code, Chapter 8-2 Waste and Recyclable Materials.
16	———. 2008. City of Livingston General Plan 2025. October.
17 18	———. 2009. City of Livingston Municipal Code, Chapter 4-6 Grading, Erosion, and Sedimentation Control.

# Appendix L-1, ACE Extension Archeological Inventory Report

#### 21 Chapter 3, Environmental and Cultural Setting

Page 3-1, in Chapter 3, Environmental and Cultural Setting of Appendix L-1, ACE Extension
Archeological Inventory Report is revised as follows:

24 The geologic history of the study area represents the complex and diverse tectonic development 25 of the California continental margin from a convergent margin to a transform boundary. Much of 26 the deformation and uplift is thought to be largely caused by transverse and compressional 27 deformation of blocks of the Pacific and North American plates along the various faults of the 28 region (Montgomery 1993; Saucedo et al. 2016). The mountains and ridges that comprise the 29 Coastal Ranges began to deform during the middle to late Miocene epoch (i.e., around 23 to 5.3 30 million years before present) and continued into the late Pliocene and early Pleistocene. The 31 present day topography is thought to be largely resultant from Miocene and younger tectonic 32 activity (Montgomery 1993)). As the region uplifted, the ranges were incised by streams and 33 sediments collected in the valleys that parallel the mountains and ridges. This process has 34 continued into the present. The Great Valley, with exception of the Los Angeles Basin and along

major fault zones, has undergone only relatively minor internal deformation in comparison to
the Coastal Ranges. The San Andreas fault is a prominent structural feature in the mountains of
the Southern Coastal Range and runs through the southwest side of the Santa Cruz Mountains
and Gavilin Ranges to the west of the study area (Montgomery 1993). The Hayward Fault zone is
a prominent structural feature throughout the eastern side of the Coastal range and bounding
the Great Valley to the east.

#### 7 Chapter 9, Bibliography

- 8 Page 9-2, in Chapter 9, Bibliography of Appendix L-1, ACE Extension Archeological Inventory Report
  9 is revised as follows:
- 10 Morton, D.M., and F.K. Miller. 2006. Geologic map of the San Bernardino and Santa Ana 30' x 60' 11 quadrangles, California: Version 1.0: California Geological Survey, Geologic Maps 12 California 1:100,000. Department of Conservation. 13 Office of the Federal Registrar. 1970. Code of Federal Regulations: Title 33, Part 200 to End Title 14 34. Washington, D.C.: Office of the Federal Registrar. 15 Ragir, S. 1972. The Early Horizon in Central California Prehistory. Contributions of the 16 University of California Archaeological Research Facility 15. 17 Rosenthal, J. S., G. G. White, and M. Q. Sutton. 2007. The Central Valley: A View from the Catbird's 18 Seat. California Prehistory: Colonization, Culture, and Complexity. Terry L. Jones and 19 Kathryn A. Klar, eds. Lanham, MD: AltaMira Press. 20 Saucedo, G.I., H. G Greene, M P. Kennedy, and S. P. Bezore. 2006. Geologic Map of the Long Beach 21 30' x 60' Ouadrangle, California; Version 2.0; California Geological Survey, Preliminary 22 Geologic Maps California 1:100,000. Department of Conservation. 23 Page 9-3, in Chapter 9, Bibliography of Appendix L-1, ACE Extension Archeological Inventory Report is revised as follows: 24 25 Wentworth et al. 1999. REFERENCE PENDING.

1	Chapter 5
2	Lathrop Wye Double Track
3	Description and Impact Analysis

As described in Chapter 1, *Introduction*, during the preparation of the final EIR, SJRRC and UPRR
identified the need for an additional track improvement in one location to support the ACE
Extension to Ceres and Merced. This chapter provides a description of the Lathrop Wye Double
Track improvement and the environmental effects of the physical changes related to the
improvement. Appendix C, *Lathrop Wye Double Track 15% Preliminary Engineering Plans* of this final
EIR contains the track plans and section drawings, structure plans, roadway plans, utility plans, and
ROW plans for this improvement.

## **5.1 Description of Lathrop Wye Double Track**

12The Lathrop Wye Double Track is a Phase I improvement. The Lathrop Wye is located between the13city of Lathrop and the city of Manteca, where the Fresno Subdivision, Tracy Subdivision, and14Oakland Subdivisions interface. The Fresno Subdivision travels south through Lathrop as a double15track railroad. As it gets to the Lathrop Wye, the western track continues south and becomes the16Tracy Subdivision. The eastern track turns east and continues on a generally south-eastern17alignment, remaining the Fresno Subdivision. Just to the east of this curve is where the Fresno18Subdivision crosses the Oakland Subdivision.

- As shown in Figure 5-1, improvements that are part of the Lathrop Wye Double Track are asfollows.
- Construction of a new 1.7-mile track connecting the Fresno Subdivision at MP 93.03 to the
   Fresno Subdivision at MP 94.70.
- Realignment of portions of the existing track between the Fresno Subdivision at MP 93.03 to the
   Fresno Subdivision at MP 94.70 and the Tracy Subdivision at MP 81.83 to the Oakland
   Subdivision at MP 84.44.
- New at-grade crossing at McKinley Avenue at MP 93.33 on the Fresno Subdivision.
- Modification of the existing McKinley Avenue at-grade crossing at MP 81.89 on the Tracy
   Subdivision and MP 93.33 on the Fresno Subdivision.
- New at-grade crossing at S Airport Way at MP 94.47 on the Fresno Subdivision.
- 15-feet extension of the existing culvert crossing over an irrigation canal at MP 93.87 on the
   Fresno Subdivision
- Reconnection to the existing turnouts on the Oakland Subdivision and the northern spur track
   just east of McKinley Ave.
- 34 The new 1.7-mile second main track would cross over from the existing Fresno Subdivision at MP
- 35 93.03 to the Fresno Subdivision at MP 94.70. To accommodate the additional track, the existing
- 36 tracks would also be realigned between the Fresno Subdivision at MP 93.03 to the Fresno
- 37 Subdivision at MP 94.70 and between the Tracy Subdivision at MP 81.83 to the Oakland Subdivision

1 at MP 84.44. Following the same alignment as the existing tracks, the new track would cross 2 McKinley Avenue at MP 93.33 on the Fresno Subdivision. The new track would also cross S Airport 3 Way at MP 94.47 on the Fresno Subdivision. Modifications to the McKinley Avenue at grade crossing 4 for the third track would include installing concrete crossing panels<sup>1</sup> where the tracks cross the 5 roadway, removing the two existing railroad crossing signals and guard/gates between the two 6 existing tracks, and installation of a new signal house to operate the new crossing as one long 7 crossing. Modifications to the S. Airport Way at grade crossing for the second main track would 8 include installing concrete crossing panels where the tracks cross the roadway, relocating the stop 9 bar,<sup>2</sup> and relocating the existing railroad crossing signal, guard/gate, and signal house.<sup>3</sup> The new 10 track connection would cross an existing irrigation canal north of East Louise Avenue. The existing culvert over an irrigation canal at MP 93.87 on the Fresno Subdivision would be extended by 15 feet. 11 12 All improvements for the Lathrop Wye Double Track would be located within the existing UPRR 13 ROW, and no new ROW would be acquired for this improvement.

### 14 **5.1.1 Construction Equipment and Schedule**

The construction equipment used for the Lathrop Wye Double Track would be the same as the
 equipment described in Chapter 2 for the Lathrop to Ceres second track. The duration for
 construction of the Lathrop Wye Double Track would be 12 months. The overall schedule for ACE

18 Extension would remain the same. As described in Section 2.5.2, *Construction Schedule and* 

Durations on page 2-32 of the draft EIR, SJRRC proposes to implement the ACE service extension to
 Ceres possibly as soon 2020, no later than 2023.

## 21 **5.1.2 Costs**

The cost for the Lathrop Wye Double Track would be \$26,729,033. The Lathrop Wye Double
Track would increase the total Phase I cost of the Proposed Project from \$303,263,690 to
\$329,992,724. The Lathrop Wye Double Track would increase the range of potential costs with
alternatives from \$269,152,206 - \$328,160,470 to \$295,881,240 - 356,463,789. Appendix D, *Updated ACE Extension Opinion of Probable Cost Report* of this final EIR contains the updated cost
estimate.

 $<sup>^{\</sup>rm 1}$  Crossing panels are installed so that the tracks lie flush with the roadway.

 $<sup>^2</sup>$  A  $stop\ bar$  is placed near an at-grade crossing to warn drivers and pedestrians of an approaching railroad crossing.

<sup>&</sup>lt;sup>3</sup> A *signal house* stores the electrical devices used to operate the at-grade crossing signals.





Figure 5-1 Lathrop Wye Double Track ACE Extension Lathrop to Ceres/Merced

# 5.2 Environmental Impacts of the Lathrop Wye Double Track

#### **5.2.1** Aesthetics

#### 4 **5.2.1.1** Impact Analysis

5 The improvements associated with the **Lathrop Wye Double Track** would occur entirely within the 6 UPRR ROW and would have similar impact to visual aesthetics as other track improvements located 7 within the UPRR ROW.

8 Construction of the Lathrop Wye Double Track would include the same construction equipment 9 and activities as other Phase I track improvements. Impact AES-1 in Section 4.1, Aesthetics, identifies 10 that construction of the Phase I improvements would result in a potentially significant visual 11 changes due to the introduction of construction activities and equipment into the viewsheds and due to fugitive dust created during construction. Construction of the **Lathrop Wye Double Track** 12 13 would result in the same potentially significant impact because construction of the Lathrop Wye 14 **Double Track** would use the same equipment and would require the same construction activities as 15 other Phase I improvements. As described in Impact AES-1 in Section 4.1, Aesthetics, implementation 16 of Mitigation Measures AES-1.1, AES-1.2, AES-1.3, and AQ-2.5 would reduce construction impacts to 17 a less-than-significant level by installing visual barriers between construction and sensitive 18 receptors, limiting work to daylight hours adjacent to sensitive receptors, limiting construction 19 lighting near sensitive receptors, and limiting fugitive dust. Thus, the impacts on visual changes from 20 construction of the **Lathrop Wye Double Track** would be less than significant after mitigation.

21 As explained in Impact AES-2 in Section 4.1, Aesthetics; visual changes resulting from operation 22 would only occur if an improvement directly affected a landscaped freeway or if the improvement 23 introduced a significant visual feature into the landscape. Like the **Oakland-Fresno Subdivision** 24 Connection, the **Lathrop Wye Double Track** would be limited to track improvements in the rail 25 corridor and would not be located near a landscaped freeway. The Lathrop Wye Double Track 26 would not include any new features, such as platforms, parking lots, pedestrian bridges, or utility 27 lines. Because the Lathrop Wye Double Track would be limited to the rail corridor and because no 28 new substantial visual features would be introduced, the operational visual impact would be less 29 than significant.

- Like other Phase I improvements, there are no officially designated and eligible state scenic
   highways, or county- and city-designated scenic roadways within 3 miles of the Lathrop Wye
   Double Track. Thus, the operation of the Lathrop Wye Double Track would result in no impact on
   scenic resources within a state scenic highway.
- As explained in Impact AES-4 in Section 4.1, *Aesthetics*; light and glare impacts would result from the installation of new lighting and from the removal of trees and landscaping associated with the project. No nighttime lighting is proposed along the **Lathrop Wye Double Track**; however, incremental increases in glare would occur along areas where trees and shrubs are removed to accommodate construction of the **Lathrop Wye Double Track**. These changes would not substantially increase glare because vegetation outside the ROW would remain to shade the corridor. Thus, the light and glare impacts associated with the **Lathrop Wye Double Track** would
- 41 be less than significant.

#### 1 5.2.1.2 Overall Impact Conclusion

Construction and operation of the Lathrop Wye Double Track would result in additional impacts
 to aesthetic resources previously identified in Section 4.1, *Aesthetics*; however, these impacts can be
 reduced to a less than significant level with previously identified mitigation. Operational impacts
 would be the same as disclosed in Section 4.1, *Aesthetics*. The significance conclusions in Section 4.1,
 *Aesthetics* are not changed with the addition of the Lathrop Wye Double Track.

### 7 5.2.2 Agricultural Resources

#### 8 5.2.2.1 Impact Analysis

9 The improvements associated with the Lathrop Wye Double Track would occur entirely within the
 10 UPRR ROW and would have similar impact to agricultural improvements as other improvements
 11 located within the UPRR ROW.

12 The **Lathrop Wye Double Track** contains areas mapped as Important Farmland within the existing 13 UPRR ROW (see Figure 5-2). As explained in Impact AG-1 in Section 4.2, Agricultural Resources, 14 areas that are mapped as Important Farmland and are located within the existing UPRR ROW are 15 not currently used for agricultural purposes. As such, the **Lathrop Wye Double Track** would not 16 result in the permanent or temporary use of agricultural resources and there would be no impact on 17 Important Farmlands. Furthermore, the Lathrop Wye Double Track would not affect agricultural 18 infrastructure because the land mapped as Important Farmland within the existing UPRR ROW are 19 not currently being used for agricultural purposes. Thus, implementation of the Lathrop Wye 20 Double Track would not affect Important Farmland or agricultural infrastructure because the areas 21 of Important Farmland mapped at Lathrop Wye Double Track are within the existing UPRR ROW 22 and are not being used for agricultural purposes.

The Lathrop Wye Double Track is not located on lands protected under a Williamson Act contract
 or other agricultural land protection mechanisms; thus, the Lathrop Wye Double Track would not
 conflict with a Williamson Act contract or other agricultural lands protection mechanism.

- Construction of the Lathrop Wye Double Track would not result in any impacts to confined animal
   facilities because there are no confined animal facilities located within 2,500 feet of the Lathrop
   Wye Double Track improvement. The closest confined animal facilities are located off of Austin
   Road, south of Manteca. These facilities are located approximately 4.5 miles south east of the
   Lathrop Wye Double Track. The operation of ACE Extension with the Lathrop Wye Double Track
   would be the same as the operational scenarios analyzed in the draft EIR. Therefore, the impact of
   operating the Lathrop Wye Double Track would be the same as the less than significant impact
- 33 identified in Impact AG-4 in Section 4.2, *Agricultural Resources*.

The draft EIR identified potential impacts from the creation of unviable agricultural remnant parcel due to the severance of agricultural parcels. The **Lathrop Wye Double Track** is located within the existing UPRR ROW, which is currently being used for railroad operation and not for agricultural use. Therefore, the **Lathrop Wye Double Track** would not create any unviable agricultural remnant parcels and therefore there would be no additional impacts due to unviable agricultural remnant parcels beyond that disclosed in Section 4.2, *Agricultural Resources*.



#### 1 **5.2.2.2 Overall Impact Conclusion**

Construction and operation of the Lathrop Wye Double Track would not result in any additional
 impact to agricultural resources beyond that disclosed in Section 4.2, *Agricultural Resources* for the
 reasons disclosed above. The significance conclusions in Section 4.2, *Agricultural Resources* are not
 changed with the addition of the Lathrop Wye Double Track.

### 6 5.2.3 Air Quality

#### 7 5.2.3.1 Impact Analysis

8 Construction and operation of the Lathrop Wye Double Track would have the same impact (less 9 than significant after mitigation) associated with conflicting with applicable air quality plans, as 10 described in Impact AQ-1 in Section 4.3, Air Quality. Like the other Phase I improvements, construction and operation of the Lathrop Wye Double Track would be consistent with the growth 11 12 anticipated by the relevant land use plans and would thus be consistent with the current Bay Area 13 Air Quality Management District (BAAQMD) and San Joaquin Valley Air Pollution Control District (SIVAPCD) air quality plans. As described in Impact AQ-1 in Section 4.3, Air Quality, SIVAPCD 14 15 establishes thresholds for NO<sub>x</sub> emissions and construction of the Phase I improvements, including 16 the Lathrop Wye Double Track would exceed those thresholds. However, as shown in Table 5-2, 17 Mitigation Measures AQ-2.1 through AQ-2-4 would reduce construction-related NO<sub>X</sub> emissions 18 below SIVAPCD's annual threshold. Accordingly, construction of the Phase I improvements, 19 including the **Lathrop Wye Double Track** would not conflict with applicable air quality plans with 20 implementation of mitigation. The impact would be less than significant after mitigation.

21 Like other Phase I Improvements, construction of the Lathrop Wye Double Track has the potential 22 to create air quality impacts through the use of construction equipment and fugitive emissions from 23 site grading and asphalt paving. Criteria pollutant emissions generated by construction of the 24 Lathrop Wye Double Track were quantified using the same methodology described in Impact AQ-25 2a in Section 4.3, Air Quality. Table 5-1 summarizes estimated construction-related emissions in the 26 SJVAPCD with implementation of Mitigation Measures AQ-2.1 through AQ-2.4 for construction of 27 just the Lathrop Wye Double Track. Table 5-2 summarizes estimated construction-related 28 emissions in SIVAPCD with implementation of Mitigation Measures AO-2.1 through AO-2.4 for 29 construction of all Phase I improvements, including the Lathrop Wye Double Track.

#### 1 2

# Table 5-1. Estimated Mitigated Construction Criteria Pollutant Emissions from Construction of the Lathrop Wye Double Track in the San Joaquin Valley Air Pollution Control District

Construction		s per Day		Tons per year								
Year	ROG	NOx	CO	PM10	PM2.5	<b>SO</b> <sub>2</sub>	ROG	NOx	CO	PM10	PM2.5	<b>SO</b> <sub>2</sub>
2019	0	2	5	3	1	0	0	0	1	0	0	0
2020	0	1	1	1	0	0	0	0	0	0	0	0
2021	0	0	1	1	0	0	0	0	0	0	0	0
Threshold <sup>a</sup>	100	100	100	100	100	100	10	10	100	15	15	27

Exceedances of air district thresholds are shown in <u>underline</u>. Emissions include implementation of Mitigation Measures AQ-2.1 through AQ-2.4 and compliance with SJVAPCD Regulation VIII.

The 100-pound-per-day threshold is a screening-level threshold to help determine whether increased emissions from a proposed project will cause or contribute to a violation of CAAQS or NAAQS. Projects with emissions below the threshold will not be in violation of CAAQS or NAAQS. Projects with emissions above the threshold would require an AAQA to confirm this conclusion (San Joaquin Valley Air Pollution Control District 2015).

 $SO_2$ 

AAQA

= sulfur dioxide

SJVAPCD = San Joaquin Valley Air Pollution Control District

= ambient air quality analysis

ROG = reactive organic gases

NO<sub>X</sub> = nitrogen oxide

- CO = carbon monoxide
- PM10 = particulate matter that is 10 microns in diameter and smaller
- PM2.5 = particulate matter that is 2.5 microns in diameter and smaller
- 3

# 1Table 5-2. Estimated Mitigated Construction Criteria Pollutant Emissions from Phase I Construction, including the Lathrop Wye Double2Track in the San Joaquin Valley Air Pollution Control District

Construction Year		ge Pound	s per Day		Tons per year							
	ROG	NOx	CO	PM10	PM2.5	<b>SO</b> <sub>2</sub>	ROG	NOx	CO	PM10	PM2.5	<b>SO</b> <sub>2</sub>
2019	5	52	<u>126</u>	80	30	0	1	6	15	10	4	0
2020	1	13	31	20	8	0	0	2	4	2	1	0
2021	0	4	10	6	2	0	0	0	0	0	0	0
Threshold <sup>a</sup>	100	100	100	100	100	100	10	10	100	15	15	27

Exceedances of air district thresholds are shown in <u>underline</u>. Emissions include implementation of Mitigation Measures AQ-2.1 through AQ-2.4 and compliance with SJVAPCD Regulation VIII.

The 100-pound-per-day threshold is a screening-level threshold to help determine whether increased emissions from a proposed project will cause or contribute to a violation of CAAQS or NAAQS. Projects with emissions below the threshold will not be in violation of CAAQS or NAAQS. Projects with emissions above the threshold would require an AAQA to confirm this conclusion (San Joaquin Valley Air Pollution Control District 2015).

SO<sub>2</sub>

AAQA

= sulfur dioxide

SJVAPCD = San Joaquin Valley Air Pollution Control District

= ambient air quality analysis

NO<sub>x</sub> = nitrogen oxide

- CO = carbon monoxide
- PM10 = particulate matter that is 10 microns in diameter and smaller
- PM2.5 = particulate matter that is 2.5 microns in diameter and smaller

- 1 Table 4.3-12 in Section 4.3. Air Ouality identifies that Mitigation Measures AO-2.1 through AO-2.4 2 would minimize impacts below thresholds for all criteria pollutants except for carbon monoxide 3 (CO), which would exceed the ambient air quality analysis (AAQA) trigger for construction of the 4 Phase I improvements (without the Lathrop Wye Double Track). Table 5-2 shows that, after 5 implementation of Mitigation Measures AQ-2.1 through AQ-2.4, the only impact from construction of 6 the Lathrop Wye Double Track would be for CO emissions, which would be increased from 120 7 pounds per day without the Lathrop Wye Double Track to 126 pounds per day with the Lathrop 8 Wye Double Track in 2019. Impact AQ-2a in Section 4.3, Air Quality identifies that dispersion 9 modeling confirms that CO concentrations from construction activity would not violate California 10 ambient air quality standards (CAAOS). Even with the addition of the Lathrop Wye Double Track 11 the dispersion modeling would still apply because the model identifies the worst-case maximum CO 12 impact from all stations and track improvements. This worst-case scenario would occur during 13 construction of **Ripon Station** and the associated track improvements. The addition of the **Lathrop** 14 Wye Double Track would not change the worst-case scenario; therefore, the impact identified in 15 Impact AQ-2a in Section 4.3, Air Quality would apply for construction of the Lathrop Wye Double 16 Track. The impact associated with a violation of air quality standards for construction of the 17 Lathrop Wye Double Track would be less than significant after mitigation.
- Operation of ACE with the Lathrop Wye Double Track would be the same as the operational
   scenarios described in the draft EIR. Thus, operation of ACE with the Lathrop Wye Double Track
   would result in the same less than significant impact on criteria pollutant emissions as described in
   Impact AQ-2b in Section 4.3, *Air Quality*.
- 22 As discussed in Impact AQ-3 in Section 4.3, the project level thresholds consider relevant past, 23 present, and reasonably foreseeable future projects within the San Francisco Bay Area Air Basin 24 (SFBAAB) and the San Joaquin Valley Air Basin (SJVAB). Thus, the project level thresholds represent 25 the maximum emissions the improvement may generate before contributing to a cumulative impact 26 on regional air quality. As described above, Mitigation Measures AO-2.1 through AO-2.4 would 27 reduce construction-related NO<sub>x</sub> emissions below SIVAPCD's significance threshold and the 28 operational emissions would be below emission thresholds. Thus, construction and operation of the 29 Phase I improvements, including the Lathrop Wye Double Track would result in a less than 30 significant impact after mitigation on cumulative air quality impacts.
- 31 Impact AO-4a in Section 4.3, Air Ouality identifies that modeling was conducted to assess the 32 potential impacts from additional motor vehicles at existing and new ACE stations and at railway 33 crossings. CO concentrations in Impact AQ-4a were estimated at North 9th Street and Coldwell 34 Avenue in Modesto in the SJVAPCD, which represent the most affected CMP intersections (i.e., 35 highest traffic volumes and worst levels of congestion/delay). Even with the addition of the Lathrop 36 **Wye Double Track** the modeling would still apply because the model identifies the worst-case 37 maximum CO impact. The addition of the Lathrop Wye Double Track would not change the worstcase scenario; therefore, the impact identified in Impact AQ-4a in Section 4.3, Air Quality would 38 39 apply for construction of the Lathrop Wye Double Track. The impact associated with exposing 40 sensitive receptors to substantial CO concentrations form increased passenger rail tragic due to of
- 41 the **Lathrop Wye Double Track** would be less than significant.
- 42 Impact AQ-4b in Section 4.3, *Air Quality* identifies the estimated inhalation health risk for the Phase I
- 43 improvements. The sensitive receptors located at the southern portion of the **Lathrop Wye Double**
- 44 **Track** were identified to be located in the same proximity to sensitive receptors as the **Ceres**

July 2018

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1 **Extension Alignment** (Lathrop-Modesto alignment). Thus, the cancer risk and chronic hazard index 2 from construction of the Lathrop Wye Double Track would be the same as the Lathrop-Modesto 3 alignment, as shown in Table 4.3-17 in Section 4.3, Air Quality. The cancer risk for the Lathrop Wye 4 **Double Track** (<0.1 per million) would be below the SIVAPCD threshold (20.0 per million). The 5 chronic health index for the Lathrop Wye Double Track (<0.01) would be below the SJVAPCD 6 threshold (1.0). Thus, construction of the Lathrop Wye Double Track would not result in increased 7 cancer or chronic health hazards in excess of SJVAPCD thresholds and the impact would be less than 8 significant.

- 9 Impacts AQ-4c through AQ-4g in Section 4.3, *Air Quality* identify the potential health risks from
- increased exposure to diesel particulate matter and PM2.5 from operation of the Phase I
   improvements. Operation of ACE with the Lathrop Wye Double Track would be the same as the
- 12 operational scenarios described in the draft EIR. Thus, the addition of the **Lathrop Wye Double**
- 13 **Track** would not change the impacts associated with operation of the Phase I improvements, and
- 14 which were described in Impacts AQ-4c through 4g in Section 4.3, *Air Quality*. Thus, the impact from
- 15 the potential health risks from increased exposure to diesel particulate matter and PM2.5 from due
- to operation of ACE with the **Lathrop Wye Double Track** would be the same less than significant
- 17 impact identified in Impacts AQ-4c through 4g in Section 4.3, *Air Quality*.
- 18 Like other Phase I improvements, construction of the Lathrop Wye Double Track would require
- earthmoving activities within San Joaquin County. As described in Impact AQ-4h in Section 4.3, *Air Quality*, disturbance of soil in San Joaquin County could expose the receptors adjacent to the
- 20 *Quality*, disturbance of soil in San Joaquin County could expose the receptors adjacent to the
   21 construction site to spores known to cause Valley Fever. Construction of the Lathrop Wye Double
- 21 construction site to spores known to cause Valley Fever. Construction of the Lathrop Wye Double
   22 Track would be required to adhere to the same dust controls described in Impact AO-4h in Section
- 4.3, Air Quality. Thus construction of the Lathrop Wye Double Track would result in the same less
   than significant impact associated with exposing sensitive receptors to increased Valley Fever risk
- during construction, as identified in Impact AQ-4h in Section 4.3, *Air Quality*.
- 26 Like other Phase I improvements, construction of the Lathrop Wye Double Track could result in 27 short-term odors typical of most construction sites. Construction of the Lathrop Wye Double Track 28 would be required to adhere to the same air district rules described in Impact AQ-5 in Section 4.3, 29 Air Quality. Thus, construction of the Lathrop Wye Double Track would have the same less than 30 significant impact on odors as identified in Impact AQ-5 in Section 4.3, Air Quality. Operation of ACE 31 with the Lathrop Wye Double Track would be the same as the operational scenarios described in 32 the draft EIR. Thus, operation of ACE with the Lathrop Wye Double Track would result in the same 33 less than significant impact on odors from operation as identified in Impact AQ-5 in Section 4.3, Air 34 Quality.

## 35 **5.2.3.2 Overall Impact Conclusion**

Construction of the Lathrop Wye Double Track would result in additional construction impacts to
 air quality; however, these impacts can be reduced to a less than significant level with previously
 identified mitigation. Operational impacts would be the same as disclosed in Section 4.3, *Air Quality*.
 The significance conclusions in Section 4.3, *Air Quality* are not changed with the addition of the

40 **Lathrop Wye Double Track**.

# 1 5.2.4 Biological Resources

#### 2 5.2.4.1 Impact Analysis

The Lathrop Wye Double Track would be located near other Phase I improvements; in fact, the
Lathrop Wye Double Track is located between the North Lathrop Station and the OaklandFresno Subdivision Connection. The land cover for the Lathrop Wye Double Track would,
therefore, be similar to the land cover that was previously mapped in the area. The land cover for
the Lathrop Wye Double Track was mapped by reviewing previous mapping that was conducted
for the ACE Extension and by reviewing aerial imagery. Table 5-3 identifies the land covers located
within the environmental footprints. Figure 5-3 depicts the land cover types in the study rea.

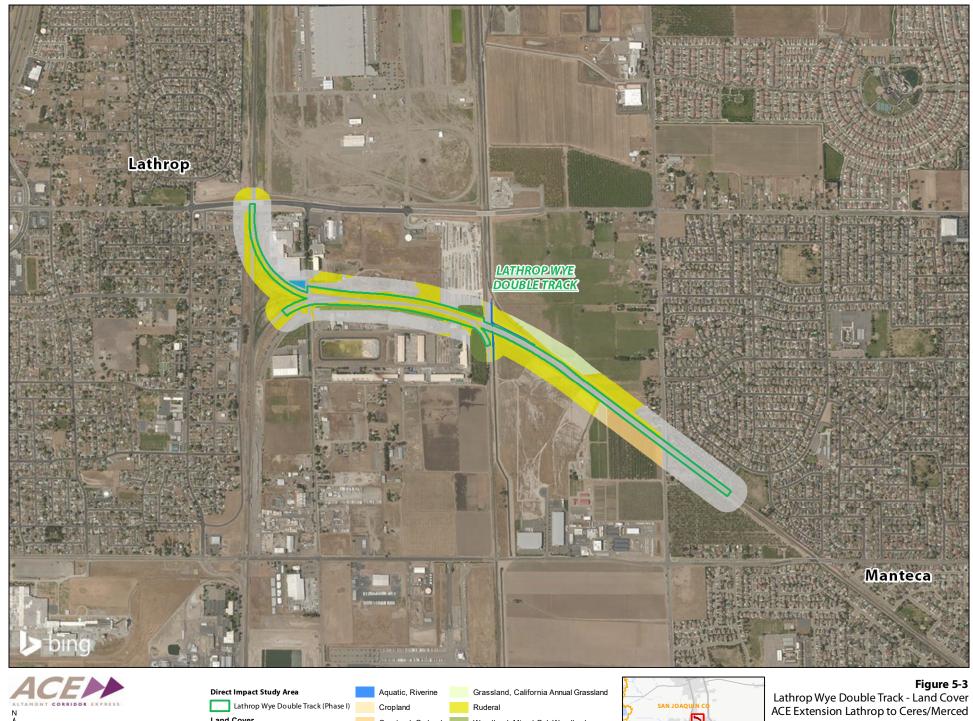
#### 10 Table 5-3. Lathrop Wye Double Track - Land Cover Types in the Environmental Footprint (acres)

	Aquatic			Woo	_	
	Riverine	Developed/ Landscaped	Ruderal		Valley Oak Woodland	Total
Lathrop Wye Double Track	0.03	16.93	10.67	0.23	0.08	27.95

#### 11

#### 12 Special-Status Plants

13 Construction of the Lathrop Wye Double Track would have similar impacts to special-status plant 14 species as the impacts identified in Impact BIO-1 in Section 4.4, *Biological Resources*. The majority of 15 the **Lathrop Wye Double Track** is located within developed or ruderal land cover, with small 16 pockets of areas that support natural land cover such as aquatic riverine and woodland habitat (see 17 Table 5-3). In these natural land cover areas, construction of the Lathrop Wye Double Track would 18 remove vegetation and have the potential to affect special-status plants. Table 5-4 identifies the area 19 of land cover potentially containing suitable habitat for special-status plant species that could be 20 removed or affected by habitat removal or degradation during construction of the Lathrop Wye 21 Double Track. Construction of the Lathrop Wye Double Track would not impact any additional 22 special-status plant species that were not previously identified in the draft EIR. Table 4.4-4, in 23 Section 4.4, *Biological Resources* includes the special-status plant species that could potentially be 24 affected by construction of the Lathrop Wye Double Track. The impacts on special-status plant 25 species associated with the construction of the Lathrop Wye Double Track would be the same as 26 the impact identified in Impact BIO-1 in Section 4.4, Biological Resources. The impact would be 27 potentially significant because if special-status plant species are present within the area of the 28 Lathrop Wye Double Track, special-status plant species would be removed or their habitat would 29 be eliminated or degraded. The impact would be minimized to a less than significant level after 30 implementation of Mitigation Measures BIO-1.1, BIO-1.2, BIO-1.3, BIO-1.4, and HYD-1.2.



Woodland, Mixed Oak Woodland

Woodland, Valley Oak Woodland

Cropland, Orchard

Developed

Land Cover

Aquatic, Pond

04

0.25

Mil

 $\square$ 

Table 5-4. Lathrop Wye Do	buble Track —Impacts on Land Covers That May Contain Suitable Habitat
for Special-Status Plant Sp	ecies (acres)

Special-Status Plant Species	Impact (acres)
Bent-flowered fiddleneck	0.31
Legenere	0.03
Recurved larkspur	0.31
Round-leaved filaree	0.31
Sanford's arrowhead	0.03
Showy golden madia	0.31
Slender-leaved pondweed	0.03
Slough thistle	0.03
Woolly rose-mallow	0.03
Wright's trichocornis	0.03

3

#### 4 Special-Status Wildlife

Construction of the Lathrop Wye Double Track would have similar impacts to special-status
 wildlife species as the impacts identified in Impact BIO-2 in Section 4.4, *Biological Resources*.

7 The **Lathrop Wye Double Track** is generally located within developed and ruderal land covers. 8 These land covers are characterized by areas where natural vegetation has been removed or 9 significantly degraded by past or current human activity and have a low likelihood to affect special-10 status wildlife given the lack of suitable habitat. Figure 5-4 shows the location of suitable habitat for special-status species. Construction of the Lathrop Wye Double Track could affect nesting bird 11 12 species and roosting bat species, including Swainson's hawk, northern harrier, white-tailed kite, 13 short-eared owl, loggerhead shrike, song sparrow (Modesto population), other nesting migratory 14 birds, pallid bat, Townsend's big-eared bat, hoary bat, western mastiff bat, and western red bat 15 through noise and vibration generated during construction, or tree and vegetation removal. A small 16 portion of the Lathrop Wye Double Track would be located in and near aquatic riverine habitat 17 (irrigation canal) and pond habitat that could affect California red-legged frog, California tiger 18 salamander, western spadefoot toad, western pond turtle, giant garter snake, bank swallow, 19 tricolored blackbird, and vellow-headed blackbird. Ground disturbance and removal of open ruderal 20 could affect burrowing owl directly if present within burrows or indirectly through foraging habitat 21 loss. Due to the proximity of nearby grasslands, the Lathrop Wye Double Track could affect San 22 Joaquin kit fox and American badger directly if individuals are present or indirectly through habitat 23 loss for movement or foraging. The Lathrop Wye Double Track may result in the removal of 24 elderberry shrubs with stems 1 inch in diameter or more and could affect valley elderberry 25 longhorn beetle.

Construction of the Lathrop Wye Double Track would not impact any additional special-status
 wildlife species that were not previously identified in the draft EIR. The impacts on special-status
 wildlife species associated with the construction of the Lathrop Wye Double Track would be the
 same as the impact identified in Impact BIO-2 in Section 4.4, *Biological Resources*. The impact would
 be potentially significant because if special-status wildlife species are present within the
 environmental footprint, special-status wildlife species could be killed or injured, and their habitat

1 eliminated or degraded. Impact BIO-2 in Section 4.4, Biological Resources identifies the mitigation 2 that has been developed to minimize impacts on these wildlife species. The impact would be 3 minimized to a less than significant level after implementation of Mitigation Measures BIO-2.1, BIO-4 2.2, BIO-2.4, BIO-2.5, BIO-2.6, BIO-2.8, BIO-2.9, BIO-2.10, BIO-2.12, BIO-2.13, BIO-2.14, BIO-2.15, 5 BIO-2.18, and BIO-2.19.

#### 6 Special-Status Fish

7 Construction of the Lathrop Wye Double Track would cross the same irrigation canal that the 8 Oakland-Fresno Subdivision Connection would cross. As described in Impact BIO-3, this 9 irrigation canal does not provide suitable habitat for special-status fish species because it does not 10 have any riparian vegetation and the water in the creek is controlled by irrigation extraction and runoff and may not have water year-round. Thus, the Lathrop Wye Double Track would have no 11 12 impact on special-status fish species.

#### 13 Wetlands and Aquatic Resources

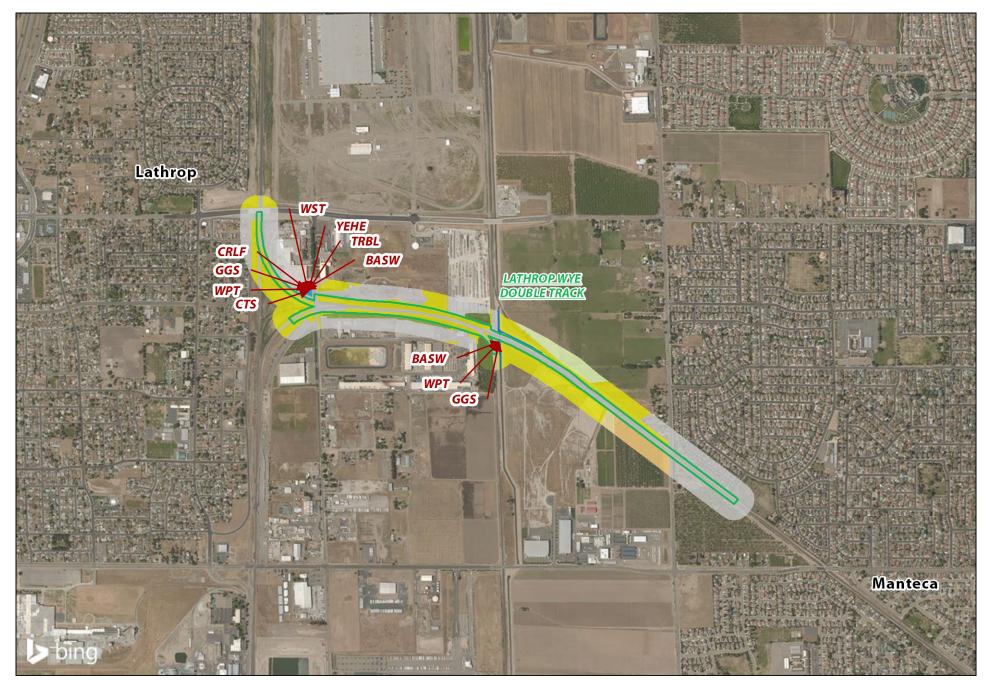
14 The Lathrop Wye Double Track would include construction of a culvert extension over an 15 irrigation canal that is classified as riverine land cover. Construction of the Lathrop Wye Double 16 **Track** would impact approximately 0.03 acre of riverine land cover. This irrigation canal is the same 17 irrigation canal that the **Oakland-Fresno Subdivision Connection** would affect. Impact BIO-4 in 18 Section 4.4, *Biological Resources* identifies that the impact to this irrigation canal is potentially 19 significant because it is a potentially federally regulated aquatic resource. Thus, the impact from the 20 Lathrop Wye Double Track would also be potentially significant and, as described in Impact BIO-4 21 in Section 4.4, *Biological Resources*, would be minimized to a less than significant level after 22 implementation of Mitigation Measure BIO-4.1 and BIO-4.2.

#### 23 Sensitive Natural Communities

24 Construction of the Lathrop Wye Double Track would affect 0.23 acre of Mixed Oak Forest and 25 0.08 acre of Valley Oak Woodland, which are considered sensitive natural communities. Where 26 present within the affected area, portions of sensitive natural communities, including Mixed Oak 27 Forest and Valley Oak Woodland, would be removed or degraded. Impacts on sensitive natural 28 communities would be significant. Impact BIO-5 in Section 4.4, *Biological Resources* identifies that 29 impacts to these sensitive natural communities would be mitigated to a less than significant level 30 after implementation of Mitigation Measure BIO-5.1 and BIO-5.3.

#### 31 Native, Resident, or Migratory Fish or Wildlife Movement

32 As described in Impact BIO-6 in Section 4.4, *Biological Resources*, construction in riverine aquatic 33 habitat and associated riparian habitat could directly and indirectly deter fish or wildlife movement. 34 Construction of the Lathrop Wye Double Track would not impact riparian habitat but would, 35 however, affect riverine aquatic land cover (irrigation canal). Construction of the Lathrop Wye 36 **Double Track** would have a similar impact to native resident or migratory fish and wildlife species 37 movement as the Oakland-Fresno Subdivision Connection because both improvements affect the 38 same irrigation canal that is classified as riverine land cover. However, as described in Impact BIO-6 39 in Section 4.4, *Biological Resources*, migratory fish species would not be present in the irrigation 40 canal due to lack of suitable habitat. Therefore, construction of the Lathrop Wye Double Track 41



Direct Impact Study Area Lathrop Wye Double Track (Phase I) Suitable Habitat for Wildlife Species Present Bank swallow (BASW) California red-legged frog (CRLF) California tiger salamander (CTS)

Giant garter snake (GGS) Tricolored blackbird (TRBL) Western pond turtle (WPT) Western spadefoot toad (WST) Yellow-headed blackbird (YEHE)

Widely distributed species commonly found in many land types: Valley Elderberry Longhorn Beetle, Swainson's Hawk, Northern Harrier, White-tailed Kite, Short-eared Owl, Burrowing Owl, Loggerhead Shrike, Song Sparrow (Modesto population), Migratory nesting birds, Pallid Bat, Townsend's Big-eared Bat, Hoary Bat, Western Mastiff Bat, and Western Red Bat



#### **Figure 5-4** Lathrop Wye Double Track – Special-Status Wildlife Species Habitat ACE Extension Lathrop to Ceres/Merced

#### 1 **Biological Resource Policies**

2 Construction of the **Lathrop Wye Double Track** would have the same impact on conflicts with

3 biological resources policies as the impact identified in Impact BIO-7 in Section 4.4, *Biological* 

4 *Resources.* Similar to other improvements, the **Lathrop Wye Double Track** may potentially require

tree removal during construction. As described in Impact BIO-7 in Section 4.4, *Biological Resources*,
 this impact would be less than significant after implementation of Mitigation Measure BIO-7.1.

#### 7 Habitat Conservation Plans and Natural Community Conservation Plans

8 The **Lathrop Wye Double Track** is located within San Joaquin County: therefore, the **Lathrop Wye** 9 **Double Track** is located within the San Joaquin County Multi-Species Habitat Conservation and 10 Open Space Plan (SIMSCP) Habitat Conservation Plan (HCP) coverage area. The Lathrop Wye 11 **Double Track** would potentially conflict with the SIMSCP HCP because the improvement would 12 affect riverine, Mixed Oak Forest, and Valley Oak Woodland. This would be a potentially significant 13 impact. Implementation of Mitigation Measures BIO-1.1, BIO-1.2, BIO-1.3, BIO-1.4, BIO-2.1, BIO-2.2, 14 BIO-2.4, BIO-2.5, BIO-2.6, BIO-2.8, BIO-2.9, BIO-2.10, BIO-2.12, BIO-2.13, BIO-2.14, BIO-2.15, BIO-15 2.18, BIO-2.19, BIO-4.1, BIO-4.2, BIO-5.1, BIO-5.3, BIO-7.1, and HYD-1.2 would avoid conflicts with 16 the approved HCP and compensate for impacts consistent with the SJMSCP. Therefore, construction 17 of Lathrop Wye Double Track, with implementation of these mitigation measures, would have a 18 less-than-significant impact.

#### 19 **Operational Impacts**

Operation of ACE with the Lathrop Wye Double Track would be the same as the operational
 scenarios described in the draft EIR. Therefore, the impacts on biological resources due to operation
 of ACE with the Lathrop Wye Double Track would be the similar to the impacts identified in
 Impact BIO-9 through Impact BIO-13 in Section 4.4, *Biological Resources*.

Operation of ACE with the Lathrop Wye Double Track could result in a potentially significant
 impact on nesting birds and roosting bats. This impact would be minimized to a less than significant
 level after implementation of Mitigation Measure BIO-9.1 and BIO-9.2, as described in Impact BIO-9
 in Section 4.4, *Biological Resources*.

Operation of the Lathrop Wye Double Track would not affect special-status fish species because no
 bridges are associated with the Lathrop Wye Double Track. Thus, no impact to special-status fish
 species would occur due to operation of the Lathrop Wye Double Track.

- 21 Occuration of ACE with the Lather West Double Traditional description the same loss the
- 31 Operation of ACE with the **Lathrop Wye Double Track** would result in the same less than
- significant impact on fish movement, migration, corridors, and nursery areas because operation is
   not expected to be significant different from the existing operations.
- 34 Operation of ACE with the **Lathrop Wye Double Track** would require routine vegetation
- 35 management, including tree pruning. As explained in Impact BIO-12 in Section 4.4, *Biological*
- 36 *Resources*, local tree ordinances would not legally apply to tree removal or pruning associated with
- 37 operation. Furthermore, operational tree removal would be limited because tree removals
- 38 necessary for the Phase I improvements would be removed during construction. Thus operation of
- 39 ACE with the **Lathrop Wye Double Track** would not conflict with local biological resource policies,
- 40 including tree preservation policies or ordinances, and the impact would be less than significant.

Operation of ACE with the Lathrop Wye Double Track would be located in an area covered by the
 SJMSCP HCP and as explained in Impact BIO-12 in Section 4.4, *Biological Resources*, increased train
 traffic would not conflict with provisions in the SJMSCP HCP and no impact would occur.

#### 4 5.2.4.2 Overall Impact Conclusion

Construction of the Lathrop Wye Double Track would result in additional impacts to biological
 resources previously identified in Section 4.4, *Biological Resources*; however, these impacts can be
 reduced to a less than significant level with previously identified mitigation. Operational impacts
 would be the same as disclosed in Section 4.4, *Biological Resources*. The significance conclusions in
 Section 4.4, *Biological Resources* are not changed with the addition of the Lathrop Wye Double
 Track.

11 **5.2.5 Cultural Resources** 

#### 12 **5.2.5.1** Impact Analysis

Cultural resources staff submitted requests to the California Historical Resources Information
 System at the Central Coast Information Center (CCIC) on June 28, 2018. For the purposes of this
 analysis the records search area was defined as the environmental footprint for the Lathrop Wye
 Double Track, plus a 50-foot radius. No built resources were identified within the environmental
 footprint based on review of aerial imagery.

18The results of the records search did not identify any new historical resources that weren't already19previously considered in the draft EIR. Thus, based on these results and based on the review of20aerial imagery, there are no built environmental historical resources located within study areas for21the Lathrop Wye Double Track. The Lathrop Wye Double Track would have no impact on built22environment historical resources.

- 23 The results of the records search did not identify any new archeological resources that weren't 24 already previously considered in the draft EIR. There are no known archaeological resources are 25 present within study areas for the Lathrop Wye Double Track. As described in Impact CUL-2 in 26 Section 4.5, Cultural Resources, even if improvements are located in areas with no known 27 archeological resources, there remains the potential for construction and operation of 28 improvements to disturb previously undocumented archaeological resources. This would constitute 29 a potentially significant impact. Although, there are no known archaeological resources within the 30 Lathrop Wye Double Track footprint, there is still a chance that construction and operation would 31 disturb previously undocumented archaeological resources. As described in Impact CUL-2 in Section 32 4.5, *Cultural Resources*, this potentially significant impact would be minimized to a less than
- significant level after implementation of Mitigation Measures CUL-2.1, CUL-2.2, CUL-2.3, CUL-2.4,
   CUL-2.5, CUL-2.6, and CUL-2.7
- 34 CUL-2.5, CUL-2.6, and CUL-2.7.
- Impact CUL-3 in Section 4.5, *Cultural Resources* identifies that there is the possibility of disturbing
   human remains across all areas of the ACE Extension and that this is a possibility significant impact.
- 36 numan remains across an areas of the ACE Extension and that this is a possibility significant impact.
   37 Like other Phase I improvements, there is the possibility for construction of the Lathrop Wye
- 37 **Double Track** to affect human remains, even though the **Lathrop Wye Double Track** would be
- 39 located within the UPRR ROW. Thus, the impact on human remains due to construction of the
- 40 **Lathrop Wye Double Track** would be the same as the impact identified in Impact CUL-3 in Section

4.5, *Cultural Resources*. Thus construction of the Lathrop Wye Double Track would result in a less
 than significant impact after implementation of Mitigation Measure CUL-3.

#### 3 **5.2.5.2** Overall Impact Conclusion

4 Construction and operation of the **Lathrop Wye Double Track** would result in additional impacts

- 5 to cultural resources; however, these impacts can be reduced to a less than significant level with
- 6 previously identified mitigation. The significance conclusions in Section 4.5, *Cultural Resources* are
- 7 not changed with the addition of the **Lathrop Wye Double Track**.

## 8 **5.2.6 Energy**

#### 9 **5.2.6.1** Impact Analysis

10 Like other Phase I improvements, during construction of the **Lathrop Wye Double Track**, energy in 11 the form of gasoline and diesel would be consumed to produce and transport construction materials, 12 operate and maintain construction equipment, and transport construction workers to and from 13 work sites. Like the other Phase I improvements, natural gas and electricity would not be used and 14 energy consumption associated with construction would be temporary and would cease when 15 construction activities are complete, anticipated to be completed prior to 2020. Table 5-5 16 summarizes the estimated expenditure of diesel and gasoline associated with construction of the 17 Lathrop Wye Double Track. Impact EN-1 in Section 4.6, *Energy* identifies that non-renewable 18 energy resources would not be consumed in a wasteful, inefficient, or unnecessary manner during 19 construction due to incentives for energy efficient investments; the efficient production of materials 20 based on the economic incentive for efficiency; reuse and recycling of demolition materials; and use 21 of newer construction equipment, locomotives, and on-road vehicles that are generally more fuel 22 efficient than older models. Construction of the Lathrop Wye Double Track would adhere to the 23 same requirements identified above; thus, construction of the Lathrop Wye Double Track would 24 result in the same less than significant impact from the wasteful, inefficient, and unnecessary 25 consumption of energy as identified in Impact EN-1 in Section 4.6, Energy.

26 Operation of ACE with the **Lathrop Wye Double Track** would be the same as the operational 27 scenarios described in the draft EIR. Thus, operation of ACE with the Lathrop Wye Double Track 28 would result in the same net energy savings as described in Impact EN-1 in Section 4.6, Energy. 29 Impact EN-1 in Section 4.6, *Energy* identifies that energy benefits achieved through Phase I 30 operations would offset the short-term construction energy use in less than one year. This would 31 still be true even with construction of the Lathrop Wye Double Track. Construction of the Lathrop 32 Wye Double Track would require the consumption of 1.8 Btu of fuel, which would increase the 33 total fuel consumed for construction of all Phase I improvements from 38.8 Btu to 40.6 Btu. As 34 descried in Table 4.6-9 in Section 4.6, *Energy*, the net energy reductions from Phase I operations 35 would be approximately 61.5 billion Btu per year. Thus, even with the additional fuel (equivalent to 1.8 Btu, bringing the total to a maximum of 42.4 Btu) that would be consumed for the construction 36 37 of the Lathrop Wye Double Track, Phase I operations would still offset the total short-term 38 construction energy use in less than one year. Operation of the **Lathrop Wye Double Track** would 39 have the same less than significant (beneficial) impact on energy as identified in Impact EN-1 in 40 Section 4.6. Energy.

	Fuel Consumption, Diesel	
Phase I Improvement	and Gasoline (Gallons)	Btu (billions) <sup>a</sup>
Lathrop Wye Double Track	12,777	1.8

#### 1 Table 5-5. Lathrop Wye Double Track—Construction Fuel Consumption

2

3 The fuel that would be requires for construction of the Lathrop Wye Double Track would be 4 obtained from the same refinery that would supply the fuel for the other Phase I improvements. As 5 described in Impact EN-1 in Section 4.6, *Energy*, the Chevron Richmond Refinery is a large 6 processing facility, and the demand for diesel fuel for construction of the Phase I improvements 7 would be a small percentage of the production capacity of this refinery and others that could meet 8 the construction energy needs. Like other Phase I improvements, construction of the Lathrop Wye 9 **Double Track** would require the intermittent use of electricity. As described in Impact EN-1 in 10 Section 4.6, *Energy*, electricity consumption during construction would not be substantial and, thus, 11 would not affect the ability of PG&E, Modesto Irrigation District, Turlock Irrigation District, or 12 Merced Irrigation District to serve the region with existing supplies. Thus, the impact on local and 13 regional energy supplies from construction of the Lathrop Wye Double Track would be the same 14 as the less than significant impact identified in Impact EN-1 in Section 4.6, Energy.

Operation of ACE with the Lathrop Wye Double Track would be the same as the operational
 scenarios described in the draft EIR. Thus, operation of ACE with the Lathrop Wye Double Track
 would result in the same less than significant impacts on local and regional energy supplies as
 described in Impact EN-1 in Section 4.6, *Energy*.

#### 19 **5.2.6.2** Overall Impact Conclusion

Construction of the Lathrop Wye Double Track would result in additional energy impacts;
 however, these impacts are less than significant and would be offset by the net energy reductions
 from Phase I operations. Operational impacts would be the same as disclosed in Section 4.6, *Energy*.
 The significance conclusions in Section 4.6, *Energy* are not changed with the addition of the Lathrop
 Wye Double Track.

## 25 **5.2.7 Geology and Soils**

#### 26 **5.2.7.1** Impact Analysis

27 Appendix M, Supporting Geology, Soils, Seismicity, and Paleontological Information of the draft EIR

28 contains maps depicting the geographic distributions of the geologic, soil, and seismic conditions.

29 The maps in this Appendix include the location of the **Lathrop Wye Double Track**. The

- 30 environmental setting in Section 4.7.3, *Environmental Setting* in Section 4.7, *Geology and Soils* would
- 31 apply for the **Lathrop Wye Double Track**.
- 32 Table 5-6 shows the potential geologic hazards for the **Lathrop Wye Double Track**. The **Lathrop**
- 33 **Wye Double Track** would be constructed in areas associated with corrosive soils (low to
- 34 moderate), erosion (moderate), difficult excavation (moderate to high), and strong groundshaking
- 35 (high). The **Lathrop Wye Double Track** would be located in an area with a low potential for

- 1 expansive soils. The potential for landslides, subsidence, liquefaction, and earthquake induced
- landslides for the Lathrop Wye Double Track is low because there are no previous occurrences
   and the area is relatively flat.
- Because, the Lathrop Wye Double Track would be located near improvements identified in the
  draft EIR, the geologic hazards associated with the Lathrop Wye Double Track would be the same
- as those identified in the draft EIR. Impact GEO-1 in Section 4.7, *Geology and Soils* identifies that
   impacts associated with geologic hazards would be less than significant due to implementation of
- 8 standard design and construction measures as required by California Building Code and the
- 9 American Railroad Engineering and Maintenance-of-Way Association (AREMA) standards. Thus, the
- 10 impacts associated with geologic hazards due to the Lathrop Wye Double Track would also be less
- 11 than significant.

#### 12 Table 5-6. Lathrop Wye Double Track – Geologic Hazards

			G	eologic Ha	zard	·		
ACE Extension Improvement	Expansive Soils	Corrosive Soils	Erosion	Difficult Excavation	Strong Groundshaking	Liquefaction	Landslides & Earthquake- Induced Landslides	<b>Ground Subsidence</b>
Lathrop Wye Double Track	nr to l	l to m	m	m to h	h	nr	1	nr

Notes:

l = low; m = moderate; h = high; nr = not rated; N/A = not applicable

Estimated hazard rating listed is the highest that exists along a given improvement.

If a portion of an improvement was not evaluated for a given hazard, and the hazard rating could not be estimated, it was left as "nr".

13

Because, the Lathrop Wye Double Track would be located near improvements identified in the 14 15 draft EIR, the impacts associated with geologic resources, including oil and gas wells, mineral 16 resources, or geothermal resources would be the same as the impact identified in the draft EIR. 17 Impact GEO-2 in Section 4.7, Geology and Soils identifies that Phase I improvements are not located 18 in an area supporting significant aggregate resources and that there are no active oil and gas wells 19 or geothermal resources in the vicinity of the Phase I improvements. Similarly, the **Lathrop Wye** 20 **Double Track** is not located in an area supporting those geologic resources and would result in no 21 impact on aggregate mineral resources, oil or gas wells, or geothermal resources.

Because, the Lathrop Wye Double Track would be located near improvements identified in the
 draft EIR and because the improvements associated with the Lathrop Wye Double Track would be
 similar to other improvements identified in the draft EIR, the impacts on paleontological resources
 would be the same as the impacts identified in the draft EIR. The Lathrop Wye Double Track

- 26 would be constructed on the Modesto Formation (Qm) and would take place on previously
- 27 disturbed land. As described in Impact GEO-3 in Section 4.7, *Geology and Soils*, no surficial

- 1 disturbances would affect paleontological resources in areas that have previously been disturbed.
- 2 Construction of the new and modified track, at-grade crossings, and culvert extensions for the
- 3 Lathrop Wye Double Track would require surficial disturbance (less than 5 feet below ground
- 4 surface) on previously disturbed land. Thus, the impact on paleontological resources due to
- 5 construction of the **Lathrop Wye Double Track** would be less than significant.
- Operation of ACE with the Lathrop Wye Double Track would be the same as the operational
   scenarios described in the draft EIR. Therefore, the operational impact on paleontological resources
- 8 would be the same as the impact identified in Impact GEO-4 in Section 4.7, *Geology and Soils*.
- Because operations and maintenance associated with the Lathrop Wye Double Track would occur
- 10 within previously disturbed areas, there would be no disturbance, damage, or loss of paleontological
- 11 resources and no impact would occur.

## 12 **5.2.7.2** Overall Impact Conclusion

- 13 Construction of the **Lathrop Wye Double Track** would result in additional impacts to geologic and
- 14 paleontological resources previously identified in Section 4.7, *Geology and Soils*; however, these
- 15 impacts can be reduced to a less than significant level with previously identified mitigation.
- 16 Operational impacts would be the same as disclosed in Section 4.7, *Geology and Soils*. The
- 17 significance conclusions in in Section 4.7, *Geology and Soils* are not changed with the addition of the
- 18 Lathrop Wye Double Track.

# 19 **5.2.8 Greenhouse Gas Emissions**

### 20 5.2.8.1 Impact Analysis

21 Like other Phase I improvements, construction of the Lathrop Wye Double Track would create 22 greenhouse gas (GHG) impacts through the use of heavy-duty construction equipment, construction 23 worker vehicle trips, truck hauling trips, and locomotive trips. GHG emissions generated by these 24 sources from construction of the Lathrop Wye Double Track were quantified using emission 25 factors from CalEEMod, EMFAC2017, and other sources, as described in Section 4.8.4.1 in Section 26 4.8, Greenhous Gas Emissions. Table 5-7 summarizes the estimated construction-related GHG 27 emissions in the SIVAPCD in metric tons per year for construction of the Lathrop Wye Double 28 Track. Table 5-8 summarizes the estimated construction-related GHG emissions in the San Joaquin 29 Valley Air Pollution Control District (SIVAPCD) in metric tons per year for construction of all Phase I 30 improvements, including the Lathrop Wye Double Track. The emissions modeling assumes 31 implementation of Mitigation Measures AQ-2.1 through AQ-2.4, which are required to reduce 32 criteria pollutant emissions. As shown in Table 5-7, construction of the Lathrop Wye Double Track 33 would generate a total of 291 metric tons CO2e during the construction period. These amounts are 34 equivalent to adding about 61 typical passenger vehicles for 1 year (U.S. Environmental Protection 35 Agency 2017).

- 36 Operation of ACE with the **Lathrop Wye Double Track** would be the same as the operational
- 37 scenarios described in the draft EIR. Thus, operation of ACE with the **Lathrop Wye Double Track**
- 38 would result in the same GHG emission reductions as described in Impact GHG-1 in Section 4.8,
- 39 *Greenhouse Gas Emissions*. Impact GHG-1 in Section 4.8, *Greenhouse Gas Emissions* identifies that GHG
- 40 benefits achieved through operation in the Phase I would offset the short-term construction
- 41 emissions in less than 2 years. This is because operation after the first year of ACE Extension would
- 42 offset 4,243 metric tons of CO2e and operation after the second year of ACE Extensions would also

offset 4,243 metric tons of CO2e. Thus, operation after two years of ACE Extension would offset a
 total of 8,486 metric tons of CO2e. The additional GHG emissions generated during construction of

- 3 the **Lathrop Wye Double Track** (291 metric tons of CO2e) would still be offset within 2 years of
- 4 operation of the ACE Extension. The GHG emissions of all Phase I improvements, including the
- 5 **Lathrop Wye Double Track** (6,728 metric tons of CO2e) would be less than the GHG emissions
- 6 offset by operation of ACE Extension for 2 years (8,486 metric tons of CO2e). Thus, the impact
- 7 associated with generating GHG emissions from construction of the **Lathrop Wye Double Track**
- 8 and operation of ACE with the **Lathrop Wye Double Track** would be the same less than significant
- 9 (beneficial) impact as identified in Impact GHG-1 in Section 4.8, *Greenhouse Gas Emissions*.

#### 10 Table 5-7. Estimated Construction Greenhouse Gas Emissions for the Lathrop Wye Double Track

	Metric Tons per Year							
<b>Construction Year</b>	<b>CO</b> <sub>2</sub>	CH <sub>4</sub>	N20	CO <sub>2</sub> e				
2019	226	<1	<1	231				
2020	54	<1	<1	56				
2021	4	<1	<1	4				
Total	284	<1	<1	291				
CO <sub>2</sub> = carbon dioxide		$N_2O$ = nitro	us oxide					
CH <sub>4</sub> = methane		$C0_2e = carbo$	on dioxide equival	ent				

11

# 12Table 5-8. Estimated Construction Greenhouse Gas Emissions for the Phase I Improvements13Including the Lathrop Wye Double Track

	Metric Tons per Year						
<b>Construction Year</b>	<b>CO</b> <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	<b>CO</b> <sub>2</sub> <b>e</b>			
2019	5,219	<1	<1	5,342			
2020	1,312	<1	<1	1,343			
2021	43	<1	<1	44			
Total	6,573	<1	<1	6,728			
CO <sub>2</sub> = carbon dioxide			us oxide				
$CH_4$ = methane		$CO_2e = carbo$	on dioxide equivalent				

14

Operation of ACE with the Lathrop Wye Double Track would be the same as the operational
 scenarios described in the draft EIR. Thus, operation of ACE with the Lathrop Wye Double Track
 would result in the same GHG emission reductions as described in Impact GHG-2 in Section 4.8,
 *Greenhouse Gas Emissions*. Operation of ACE with the Lathrop Wye Double Track would, therefore,
 have the same less than significant (beneficial) impact as identified in Impact GHG-2 in Section 4.8,

20 *Greenhouse Gas Emissions* for impacts associated with complying with plans, policies, and

21 regulations adopted to reduce GHG emissions

### 22 **5.2.8.2 Overall Impact Conclusion**

- 23 Construction of the Lathrop Wye Double Track would result in additional construction GHG
- 24 emissions; however, operation of ACE with the Lathrop Wye Double Track would result in
- approximately the same net GHG reductions as disclosed in Section 4.8, *Greenhouse Gas Emissions*.

- The construction impacts would be offset by the GHG reductions due to operation within less than 2
   years. The significance conclusions in 4.14, *Public Services* are not changed with the addition of the
- 3 Lathrop Wye Double Track.

# 4 5.2.9 Hazardous Materials

## 5 5.2.9.1 Impact Analysis

Construction, operation, and maintenance of the Lathrop Wye Double Track would require the
 transport, use, and disposal of hazardous materials and would be required to comply with the same
 safety requirements as identified in Impact HAZ-1 in Section 4.9, *Hazardous Materials*. Thus, the
 impact identified in Impact HAZ-1 in Section 4.9, *Hazardous Materials* would be the same as the
 impact for the Lathrop Wye Double Track. Impacts related to the routine transport, use, disposal,
 or accidental release of hazardous materials during construction, operation, and maintenance of the
 Lathrop Wye Double Track would be less than significant.

13 The Lathrop Wye Double Track is located in the same area as other Phase I improvements. Thus, 14 construction and maintenance of the Lathrop Wye Double Track is expected to involve the 15 disturbance of the similar hazardous materials identified in Impact HAZ-2 in Section 4.9, Hazardous 16 *Materials.* Table 5-9 presents the specific sources of hazardous materials that could have affected 17 existing conditions within the environmental footprint of the Lathrop Wye Double Track. The 18 impact associated with disturbing hazardous materials would be the same for the **Lathrop Wye** 19 **Double Track** and other Phase I improvements. This is because the hazardous materials that could 20 potentially be found in the Lathrop Wye Double Track are the same as those identified in Impact 21 HAZ-2 in Section 4.9, Hazardous Materials. Thus, construction, operation, and maintenance of the 22 Lathrop Wye Double Track would result in a less than significant impact after implementation of 23 Mitigation Measures HAZ-2.1, HAZ-2.2, HAZ-2.3, and AQ-2.5.

# Table 5-9. Lathrop Wye Double Track – Hazardous Materials Sources with Potential to Affect Existing Conditions

			Haz	zardo	us Ma	ateria	l Sou	rces	i
ACE Extension Improvement	Maximum Depth of Excavation (feet)	<b>Building Structures</b>	Bridge/Overhead Structures	Roadway Structures	Railroad Corridors	Major Roadway Corridors	Agricultural Land	Petroleum Pipelines	Hazardous Materials Release Sites
Lathrop Wye Double Track	5			BM	BM, S, B		S	S, GW	GW
Notes: BM = building materials S = soil	B = ballast GW = groundwater	1	1	1		1	1		1

26

- As described in Impact HAZ-3 in Section 4.9, *Hazardous Materials*, construction and operation of
   improvements that are located more than 0.25 mile from a school would not create a potentially
   significant hazard for children from emissions or handling of hazardous or acutely hazardous
   materials. There are no schools located within 0.25 mile of the Lathrop Wye Double Track. Thus,
   the Lathrop Wye Double Track would have no impact associated with creating a hazard for
   children from emissions or handling of hazardous materials.
- 7 The State Water Board's GeoTracker database and the Department of Toxic Substance Control 8 (DTSC) EnviroStor database were reviewed to identity any potential hazardous materials release 9 sites of concern within the footprint of the Lathrop Wye Double Track (State Water Resources 10 Control Board 2018, Department of Toxic Substances Control 2018). No open hazardous materials 11 release sites were identified within the footprint of the Lathrop Wye Double Track. Table 5-10 12 identifies the open hazardous materials release sites within 0.25 mile of the Lathrop Wye Double Track, which is also within 0.25 mile of the proposed North Lathrop Station. Because the only 13 14 adjacent site to the Lathrop Wye Double Track would be the same as the North Lathrop 15 Spagetation, construction and maintenance activities for the Lathrop Wye Double Track would 16 have a similar potential to encounter as groundwater contamination as the North Lathrop Station 17 construction. Thus, the impact would be significant but it can be reduced to a less than significant 18 level with implementation of Mitigation Measures AQ-2.5, HAZ-2.1, HAZ-2.2, and HAZ-2.3, which 19 would require the implementation of fugitive dust controls, a voluntary oversight agreement, site 20 investigations, and a CRMP, which would reduce impacts from the disturbance of potentially 21 contaminated soil and/or groundwater during construction and maintenance activities to a less than 22 significant level.

# 23Table 5-10. Hazardous Materials Sites within 0.25 mile of Lathrop Wye Double Track24Improvements

Name	Type of Site	Location	Status	Approximate distance from Lathrop Wye Improvements
Defense Distribution San Joaquin CA-Sharpe-Site P-1H	Military Clean- up Site	850 Roth Road	Open	1,200 feet
Sources: State Water Resources (	Control Board 2018	, Department o	f Toxic Sub	stances Control 2018

#### 25

#### 26 **5.2.9.2** Overall Impact Conclusion

Construction, maintenance, and operation of the Lathrop Wye Double Track would result in
 additional impacts to hazardous materials previously identified in Section 4.4, *Biological Resources*;
 however, these impacts can be reduced to a less than significant level with previously identified

- 30 mitigation. The significance conclusions in Section 4.9, *Hazardous Materials* are not changed with
- 31 the addition of the **Lathrop Wye Double Track**.

6

7

# 1 5.2.10 Hydrology and Water Quality

### 2 5.2.10.1 Impact Analysis

Impact HYD-1 in Section 4.10, *Hydrology and Water Quality* identifies the following two activities
 that could violate water quality standards, waste discharge requirements, or provide substantial
 sources of polluted runoff:

- Improper management of soils, fill, and hazardous materials
  - Dewatering or within or adjacent to surface waters

8 Construction of the Lathrop Wye Double Track would involve both of those activities. Construction 9 of the Lathrop Wye Double Track would entail work near an irrigation canal and within the 10 irrigation canal during installation of a culvert extension. Thus, the impacts and requirements 11 identified in Impact HYD-1 in Section 4.10, Hydrology and Water Quality would apply for the 12 Lathrop Wye Double Track. Due to the potential to discharge groundwater or dewatering effluent 13 to nearby surface waters, and the potential for soil, sediment, construction materials, and hazardous 14 materials to be released into surface water during work adjacent to, within, or crossing surface 15 water, the impact on water quality is potentially significant. A SWPPP would be prepared under the 16 Construction General Permit, and the BMPs described Section 4.10, Hydrology and Water Quality 17 would be implemented during construction of the Lathrop Wye Double Track. Implementation of 18 Mitigation Measures HYD-1.1 and HYD-1.2, which require specific procedures for discharge of 19 groundwater or dewatering effluent and work adjacent to, within, or crossing surface water, impacts 20 on water quality during construction of the Lathrop Wye Double Track would be less than 21 significant.

- Impact HYD-2 in Section 4.10, *Hydrology and Water Quality* identifies the following operation and
   maintenance activities that could violate water quality standards, waste discharge requirements, or
   provide substantial sources of polluted runoff:
- Reuse of contaminated soils or fill
- Alteration of existing drainage patterns and creation of new sources of polluted runoff
- Use of pesticides for track maintenance
- Train operations and accident conditions

Operation and maintenance of ACE with the Lathrop Wye Double Track would potentially involve
the activities identified above. Thus, the impacts and requirements identified in Impact HYD-2 in
Section 4.10, *Hydrology and Water Quality* would apply for the Lathrop Wye Double Track. The
impact on water quality from the operation and maintenance of the Lathrop Wye Double Track
would be less than significant after implementation of existing regulations and Mitigation Measure
HAZ-3, as described in Impact HYD-2 in Section 4.10, *Hydrology and Water Quality*.

As described in Impact HYD-3 in Section 4.10, *Hydrology and Water* Quality, limited diversion of
 surface water may be required for Phase I improvements that include new bridges and culverts. The
 Lathrop Wye Double Track would require a culvert extension. Impacts from culvert extensions
 and other water diversion or dewatering scenarios were analyzed in Impact HYD-3 in Section 4.10,
 *Hydrology and Water Quality.* The impacts on groundwater supplies from the culvert extension for
 the Lathrop Wye Double Track would be similar to those described in Impact HYD-3 in Section

4.10, *Hydrology and Water* Quality. Since dewatering activities for construction of culverts would be
 short term and limited to culvert locations, and the discharged effluent would have the opportunity
 to recharge the aquifer, the dewatering activities associated with construction of the Lathrop Wye
 Double Track would be less than significant, the same as analyzed in Impact HYD-3 in Section 4.10,
 *Hydrology and Water Quality*.

6 As stated in Impact HYD-4 in Section 4.10, Hydrology and Water Quality, Phase I operations would 7 not involve dewatering or other use of groundwater that could deplete groundwater resources. It is 8 not anticipated that the Lathrop Wye Double Track would have any additional impact related to 9 groundwater depletion. Like other Phase I improvements located within the UPRR ROW, the 10 Lathrop Wye Double Track would involve the creation of only limited areas of impervious 11 pavement surfaces that would impede stormwater runoff. The Lathrop Wye Double Track would 12 be designed and constructed in accordance with the Construction General Permit and MS4 Permit, 13 which contain BMPs to reduce impacts related to hydrology and water quality. Thus, the operational 14 impact of the **Lathrop Wye Double Track** regarding substantially depleting groundwater supplies 15 would be less than significant, the same as analyzed in Impact HYD-4 in Section 4.10, Hydrology and 16 Water Quality.

- Like other Phase I improvements, the Lathrop Wye Double Track would intersect areas with
   reduced flood risk due to levees, dam failure inundation areas, and 200-year flood zones. The
- potential impacts described in Impact HYD-5 in Section 4.10, *Hydrology and Water Quality* could also
  occur at the Lathrop Wye Double Track. Implementation of Mitigation Measure HYD-5.1, which
  would prevent construction workers, materials, and equipment from being exposed to storm
  flooding hazards, would reduce potential construction impacts related to flooding hazards to a lessthan-significant level. This impact would be would be less than significant, with implementation of
  Mitigation Measure HYD-5.1, the same as analyzed in Impact HYD-5 in Section 4.10, *Hydrology and Water Quality*.
- 26 Impact HYD-6 in Section 4.10, Hydrology and Water Quality describes that Phase I improvements 27 would include construction of new bridges and culverts across drainage courses, and improvements 28 within flood zones. If these improvements are not appropriately designed, they could potentially 29 impede or redirect flood flows during operation and railroad tracks could be inundated. The 30 Lathrop Wye Double Track would have similar impacts to the other improvements located in a 31 FEMA flood zone as described Impact HYD-6 in in Section 4.10, Hydrology and Water Quality. 32 Implementation of Mitigation Measure HYD-6.1, which would require detailed hydraulic evaluations 33 and modifications of improvement designs to reduce potential flooding hazards, would reduce 34 potential flooding impacts during operation of Phase I improvements within drainage courses and 35 flood zones to a less than significant level. This impact would be less than significant with implementation of Mitigation Measure HYD-6.1, the same as analyzed in Impact HYD-6 in Section 36 37 4.10, Hydrology and Water Quality.
- 38 Construction of the Lathrop Wye Double Track could involve dewatering activities for the culvert 39 extension. This would have a similar potentially significant impacts on drainage patterns as those 40 described in Impact HYD-7 in Section 4.10, Hydrology and Water Quality. The discharge of groundwater or dewatering effluent could exceed the capacity of storm drainage systems and cause 41 42 flooding. However, implementation of Mitigation Measure HYD-7.1 would limit flow rates for 43 groundwater or dewatering discharges and would reduce potential construction impacts on storm 44 drainage system capacity to a less than significant level. Therefore, the impact on drainage patterns 45 due to the Lathrop Wye Double Track would be less than significant with implementation of

- Mitigation Measure HYD-7.1, the same as analyzed in Impact HYD-7 in Section 4.10, *Hydrology and Water Quality.*
- 3 Impact HYD-8 in Section 4.10, *Hydrology and Water Quality* describes that Phase I improvements
- 4 would alter drainage patterns by modifying drainage systems and creating new impervious surfaces.
- 5 Like other Phase I improvements located within the UPRR ROW, the **Lathrop Wye Double Track**
- 6 would d alter existing drainage through construction of new tracks and extended culverts. Impact
- 7 HYD-8 in Section 4.10, *Hydrology and Water Quality* identifies that these impacts would be mitigated
- 8 to a less than significant level after compliance with existing regulations and Mitigation Measure
- 9 HYD-8.1. Thus, the operational impact of the **Lathrop Wye Double Track** on the drainage system
- 10 would be less than significant after mitigation.

#### 11 **5.2.10.2** Overall Impact Conclusion

- 12 Construction, operation, and maintenance of the **Lathrop Wye Double Track** would result in
- 13 additional impacts on hydrology and water quality; however, these impacts can be reduced to a less
- 14 than significant level with previously identified mitigation. The significance conclusions in Section
- 15 4.10, *Hydrology and Water Quality* are not changed with the addition of the **Lathrop Wye Double**
- 16 **Track**.

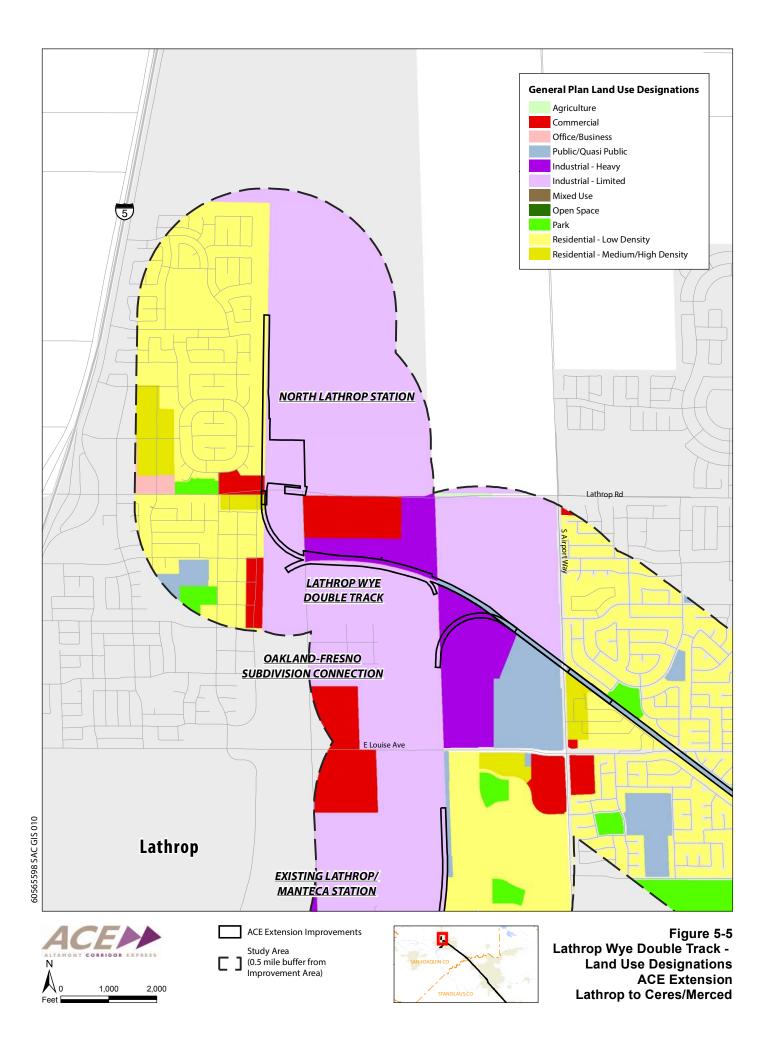
# 17 5.2.11 Land Use and Planning

### 18 **5.2.11.1** Impact Analysis

- The improvements associated with the Lathrop Wye Double Track would occur entirely within the
   UPRR ROW and would have similar impact to Land Use and Planning as other improvements located
   within the UPRR ROW. Figure 5-5 shows the general plan-designated land uses in the study area,
   which is a 0.5 mile buffer from the Lathrop Wye Double Track environmental footprint.
- 23 The Lathrop Wye Double Track would have the same less than significant impact associated with 24 physically dividing an established community as described in the draft EIR. As described in Impact 25 LU-1, the impact associated with temporarily disrupting access during construction would be less 26 than significant because detours or impeded access due to construction of Phase I improvements 27 would be temporary, would last several days at a particular location, and would not result in a 28 permanent impediment to circulation or access to common uses that define an established 29 community. Furthermore, the Lathrop Wye Double Track would occur entirely within the UPRR 30 ROW, which functions as a barrier and helps define established communities within the area. Thus, 31 operation of the Lathrop Wye Double Track would not divide an established community and the 32 impact would be less than significant.
- The **Lathrop Wye Double Track** would not conflict with an applicable land use plan, policy, or regulation because the improvements would be located entirely within the existing UPRR ROW. As described in Impact LU-2, improvements located within the UPRR are exempt from local building and zoning codes and other land use ordinances. Thus, within UPRR ROW, no impacts on land use and planning are expected.

#### 38 The **Lathrop Wye Double Track** is located within the coverage area of the SJMSCP HCP. As

- described above in Section 5.2.4, *Biological Resources*, construction of the Lathrop Wye Double
- 40 **Track** would potentially conflict with the SJMSCP HCP; however, the impact would be less than



significant after implementation of Mitigation Measures BIO-1.1, BIO-1.2, BIO-1.3, BIO-1.4, BIO-2.1,
BIO-2.2, BIO-2.4, BIO-2.5, BIO-2.6, BIO-2.8, BIO-2.9, BIO-2.10, BIO-2.12, BIO-2.13, BIO-2.14, BIO-2.15,
BIO-2.18, BIO-2.19, BIO-4.1, BIO-4.2, BIO-5.1, BIO-5.3, BIO-7.1, and HYD-1.2. Operation of ACE with
the Lathrop Wye Double Track, including increased train traffic would not conflict with provisions
in the SJMSCP HCP and no impact would occur.

### 6 **5.2.11.2** Overall Impact Conclusion

Construction of the Lathrop Wye Double Track would result in additional impacts to land use and
planning, previously identified in Section 4.11, *Land Use and Planning*. However, these impacts can
be reduced to a less than significant level with previously identified mitigation. Operational impacts
would be the same as disclosed in Section 4.14, *Public Services*. The significance conclusions in 4.14, *Public Services* are not changed with the addition of the Lathrop Wye Double Track.

## 12 **5.2.12** Noise and Vibration

#### 13 **5.2.12.1** Impact Analysis

Construction of the Lathrop Wye Double Track would involve site work and rail work, similar to 14 15 other Phase I improvements; however, the Lathrop Wye Double Track would not include any 16 structures, so no structure work would be conducted during construction. The construction noise 17 thresholds for the **Lathrop Wye Double Track** would be the same as the thresholds for site work 18 and rail work identified for the Phase I improvements. As described in Table 4.12-8 in Section 4.12, 19 *Noise and Vibration*, noise impacts would be limited to receptors within 135 to 150 feet from a 20 Lathrop Wye Double Track construction site. Residences on Gianna Lane in Manteca are located 21 near the southern portion of the Lathrop Wye Double Track. These residences are also located near the Ceres Extension Alignment, so construction noise impacts on these residences were 22 23 considered in the draft EIR. These residences would be located within 135 feet of construction sites 24 for the Lathrop Wye Double Track; therefore, the potential construction noise impacts on these 25 sensitive receptors would be significant. The construction impact for the Lathrop Wye Double 26 **Track** would be the same as the impact analyzed in Impact NOI-1 in Section 4.12, Noise and 27 Vibration. Thus, construction of the Lathrop Wye Double Track would result in a significant and 28 unavoidable impact even after implementation of Mitigation Measure NOI-1.1 and even though the 29 construction noise would be short term and would cease after construction is completed.

30 The southern portion of the Lathrop Wye Double Track is located near the track that was 31 identified for the Ceres Extension Alignment. There are residences on Gianna Lane in Manteca that 32 are located within the vicinity of the proposed track. Impact NOI-2 in Section 4.12, Noise and 33 Vibration (page 4.12-26) identifies the potential noise impacts to these residences, which are 34 identified as being located between South Airport Way and West Louise Avenue in Manteca. 35 Moderate noise impacts are projected at 25 residences and severe noise impacts are projected at 2 36 residences for operation of ACE with the Phase I improvements. The **Lathrop Wye Double Track** 37 would be located closer to residences at certain locations; however, the closest distance from the 38 track to any residence would remain 57 feet. Thus, the most severe noise impact identified in 39 Impact NOI-2 in Section 4.12, *Noise and Vibration* (Table 4.12-13) would still apply for operation of 40 ACE with the **Lathrop Wye Double Track**. The only difference would be that there would be 41 greater noise at residences that are located closer to the track. Operational noise impacts were re-42 evaluated to account for the new distances from residences to the track. Table 5-11 identifies the

1 number of moderate and severe noise impacts (per the FTA noise level criteria) at the residences on 2 Gianna Lane in Manteca, for operation of ACE with and without the Lathrop Wye Double Track. 3 Operation of ACE with the Lathrop Wye Double Track would result in four less moderate noise 4 impact locations and six additional severe noise impact location (all of which are between South 5 Airport Way and West Louise Avenue). Figure 5-6 shows the location of these additional noise 6 impacts. Although operation of ACE would result in several additional severe impact locations, 7 Impact NOI-2 in Section 4.12, Noise and Vibration already identified that severe noise impacts would 8 occur at nearby residences. As described in Impact NOI-2 in Section 4.12, Noise and Vibration, 9 Mitigation Measure NOI-2.1 would be implemented and would help to reduce noise. The noise 10 impact from operation of ACE with the Lathrop Wye Double Track would be the same as the 11 significant and unavoidable noise impact identified in Impact NOI-2 in Section 4.12. Noise and 12 Vibration.

# 13 Table 5-11. Overview of Phase I Operational Noise Impacts for Residences on Gianna Lane inManteca

	Noise Impacts			
Operational Scenario	Moderate	Severe		
Phase I Improvements (without the Lathrop Wye Double Track)	25	2		
Phase I Improvements (with the Lathrop Wye Double Track)	21	8		
Difference	-4	+6		

#### 15

16 Construction of the Lathrop Wye Double Track would involve the use of compactors and 17 bulldozers during site work and rail work, similar to other Phase I improvements; however, 18 construction of the Lathrop Wye Double Track would not involve the use of impact pile drivers 19 because no structures would be constructed. Impact NOI-3 in Section 4.12, Noise and Vibration 20 identifies that groundborne vibration from construction activities would cause only intermittent 21 localized disturbance along the rail corridor and that processes such as earthmoving with bulldozers 22 can create annoying vibration. These vibration impacts would be in isolated cases where it is 23 necessary to use this type of equipment in close proximity to residential buildings. The vibration 24 impacts from the Lathrop Wye Double Track would be lower than what was analyzed in Impact 25 NOI-3 in Section 4.12, *Noise and Vibration* because construction of the **Lathrop Wye Double Track** 26 would not require pile driving. Nonetheless, because residences on Gianna Lane in Manteca are 27 located near the southern portion of the **Lathrop Wye Double Track**. It is possible that 28 construction activities could result in vibration damage, and damage from construction vibration 29 would be a potentially significant impact. As described in Impact NOI-3 in Section 4.12, Noise and 30 Vibration, implementation of Mitigation Measure NOI-3.1 would reduce impacts to a less than 31 significant level by requiring the preparation and implementation of a construction vibration control 32 plan. Thus, the vibration impact from construction of the Lathrop Wye Double Track would be less 33 than significant after mitigation.

Operation of ACE with the Lathrop Wye Double Track would be the same as the operational
 scenarios described in the draft EIR. Therefore, the impacts on vibration from operation of ACE with
 the Lathrop Wye Double Track would be the similar to the impacts identified in Impact NOI-3 in
 Section 4.12, *Noise and Vibration.* Because of the high volume of existing freight train traffic in the
 area where Phase I operations would occur, the very small increase in passenger trains with Phase I
 operations (including the Lathrop Wye Double Track), and because the new passenger rail service

would not result in vibration levels greater than existing levels, no vibration impacts are projected
 at locations with existing train operations.

### 3 **5.2.12.2** Overall Impact Conclusion

4 Construction of the Lathrop Wye Double Track would result in additional impacts to noise and 5 vibration, previously identified in Section 4.12, Noise and Vibration. Construction and operational 6 vibration impacts would be reduced to a less than significant level with previously identified 7 mitigation; however, as with other Phase I improvements, the construction and operational noise 8 impacts would be significant and unavoidable even after implementation of previously identified 9 mitigation. These significant and unavoidable noise impacts from the Lathrop Wye Double Track 10 would affect residences on Gianna Lane in Manteca. Section 4.12, Noise and Vibration of the draft EIR 11 already identified that there would be potentially significant and unavoidable impacts at these 12 residences. The significance conclusions in 4.12, Noise and Vibration are not changed with the 13 addition of the Lathrop Wye Double Track.

# 14 **5.2.13 Population and Housing**

### 15 **5.2.13.1** Impact Analysis

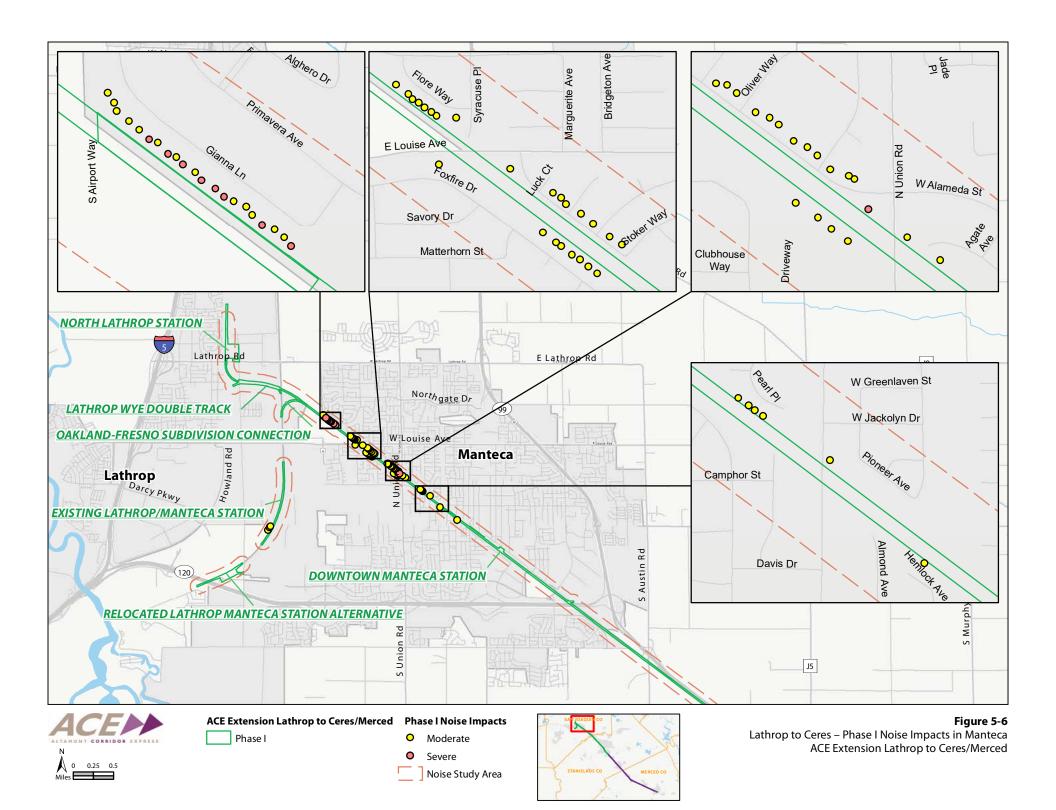
16 Impact POP-1 in Section 4.13, Population and Housing states that construction of the Phase I 17 improvements has the potential to induce local population growth due to temporary employment 18 opportunities. Like other Phase I improvements, construction of the **Lathrop Wye Double Track** 19 would also create temporary employment opportunities that would induce temporary population 20 growth. As described in Impact POP-1 in Section 4.13, Population and Housing, this temporary 21 impact would be less than significant because some of the employment opportunities are 22 anticipated to be filled by local workers; non-local labor would commute or temporarily relocate 23 during the construction period and once construction is complete, non-local workers would return 24 to their prior residence or move on to the next construction opportunity; and because it anticipated 25 that the local municipalities would have the capacity to accommodate a temporary increase in 26 population in the event construction workers are relocated. The impacts from construction of the 27 Lathrop Wye Double Track would be the same as the less than significant impact identified in 28 Impact POP-1 in Section 4.13, Population and Housing. Furthermore, operation of ACE Extension 29 with the **Lathrop Wye Double Track** would be the same as the operational scenarios analyzed in 30 the draft EIR. Therefore, the impact of operating the Lathrop Wye Double Track would be the 31 same as the less than significant impact identified in Impact POP-1 in Section 4.13, Population and 32 Housing.

The Lathrop Wye Double Track is located entirely within the UPRR ROW; thus, no parcel
 acquisition would be required. Therefore, the construction and operation of Lathrop Wye Double
 Track would be have no impact associated with the displacement of existing housing units or
 people.

#### 37 5.2.13.2 Overall Impact Conclusion

38 Construction and operation of the **Lathrop Wye Double Track** would not result in any additional

- 39 impact to population and housing resources beyond that disclosed in Section 4.13, *Population and*
- 40 *Housing* for the reasons disclosed above. The significance conclusions in Section 4.13 are not
- 41 changed with the addition of the **Lathrop Wye Double Track**.



7

8

# 1 **5.2.14 Public Services**

### 2 5.2.14.1 Impact Analysis

- Impact PS-1 in Section 4.14, *Public Services* identifies that the demand for fire protection, law
   enforcement, and emergency response services could be affected in two primary ways.
- Construction activities occurring in roadways and streets could disrupt traffic and interfere with
   the response times for fire, police, and other emergency responders.
  - Construction workers and areas where construction would occur could require additional fire, police, and other emergency responders' services.

9 Construction of the Lathrop Wye Double Track could affect fire protection, law enforcement, and 10 emergency response services in a similar way. The modification of the at-grade crossings at 11 McKinley Avenue and S Airport Way could affect traffic and accidents could occur during 12 construction that would require local emergency response. As described in Impact PS-1 in Section 13 4.14, Public Services, these potential construction impacts would be minimized through the 14 implementation of Mitigation Measure TR-7.1, which requires the preparation of a construction 15 management plan; through the implementation of Cal/OSHA's Title 8, which requires that an 16 emergency action plan be prepared to prevent and respond to medical emergencies; and through 17 fencing and visual screening that would deter trespassers from accessing the construction site. Thus, 18 construction activities associated with the Lathrop Wye Double Track would have a less-than-19 significant impact on public services with implementation of Mitigation Measure TR-7.1. Operation 20 of the ACE Extension with the Lathrop Wye Double Track would be the same as the operational 21 scenarios identified in the draft EIR. Therefore, the operational impacts on fire protection, law 22 enforcement, and emergency response services would be the same as the less than significant 23 impact analyzed in Impact PS-1 in Section 4.14, Public Services.

24 Construction of the Lathrop Wye Double Track could affect the demand for schools and other 25 public services in a similar way to the less than significant impact identified in Impact PS-2 in 26 Section 4.14. *Public Services*, Like the other Phase I improvements, the **Lathrop Wye Double Track** 27 has the potential to induce local population growth temporarily through employment of workers 28 during the construction period. However, construction would be temporary and would not result in 29 a new permanent population that would require new or physically altered schools or other public 30 services. The impact on schools and other public services, from construction of the Lathrop Wye 31 **Double Track**, would be less than significant. Operation of the ACE Extension with the **Lathrop** 32 Wye Double Track would be the same as the operational scenarios identified in the draft EIR. 33 Therefore, the operational impacts on school and other public services would be the same as the less

34 than significant impact analyzed in Impact PS-2 in Section 4.14, *Public Services*.

### 35 **5.2.14.2** Overall Impact Conclusion

36 Construction of the **Lathrop Wye Double Track** would result in additional impacts to public 37 services, previously identified in Section 4.14, *Public Services*. However, these impacts can be

38 reduced to a less than significant level with previously identified mitigation. Operational impacts

- 39 would be the same as disclosed in Section 4.14, *Public Services*. The significance conclusions in
- 40 Section 4.14, *Public Services* are not changed with the addition of the **Lathrop Wye Double Track**.

# 1 **5.2.15** Recreation

### 2 5.2.15.1 Impact Analysis

There are no new recreational resources located near the Lathrop Wye Double Track; however,
the Lathrop Wye Double Track would be located within 0.25 mile of some recreational resources
that were identified in the draft EIR in Section 4.15, *Recreation*. The Lathrop Wye Double Track
would be located 950 feet from Woodfield Park; 260 feet from Green Belt Park; and 10 feet from
Primavera Park. The Lathrop Wye Double Track would have a similar impact as identified in the
draft EIR.

- 9 Users of recreational resources in the vicinity of the **Lathrop Wye Double Track** would experience 10 impacts involving visual degradation, and increased noise and dust during the construction period,
- 11 which would be potentially significant. As described in Impact REC-1 in Section 4.15, *Recreation*,
- 12 potential visual degradation, and increased noise and dust impacts experienced by users of nearby
- 13 recreational resources during the construction period would be minimized by Mitigation Measures
- AES-1.1, AQ-2.1 through AQ-2.5, and NOI-1.1. With implementation of these mitigation measures,
- 15 construction-period impacts on nearby recreational resources from the **Lathrop Wye Double**
- 16 **Track** would be less than significant.
- Operation of the ACE Extension with the Lathrop Wye Double Track would be the same as the
   operational scenarios identified in the draft EIR. Therefore, the operational impacts on recreational
   resources would be the same as analyzed in the Impact REC-2 of the draft EIR Section 4.15,
   *Recreation* and would be less than significant.
- The **Lathrop Wye Double Track** does not involve the construction or expansion of recreational facilities. Thus, like the analysis of Impact REC-3 in the draft EIR Section 4.15, *Recreation*, the
- Lathrop Wye Double Track would have no impact on the physical environment as result of new
   recreational facilities.

## 25 **5.2.15.2 Overall Impact Conclusion**

Construction of the Lathrop Wye Double Track would result in additional impacts to three adjacent
 recreational areas previously identified in Section 4.15, *Recreation*; however, these impacts can be
 reduced to a less than significant level with previously identified mitigation. Operational impacts
 would be the same as disclosed in Section 4.15, *Recreation*. The significance conclusions in Section
 4.15, *Recreation* are not changed with the addition of the Lathrop Wye Double Track.

# 31 5.2.16 Safety and Security

## 32 **5.2.16.1** Impact Analysis

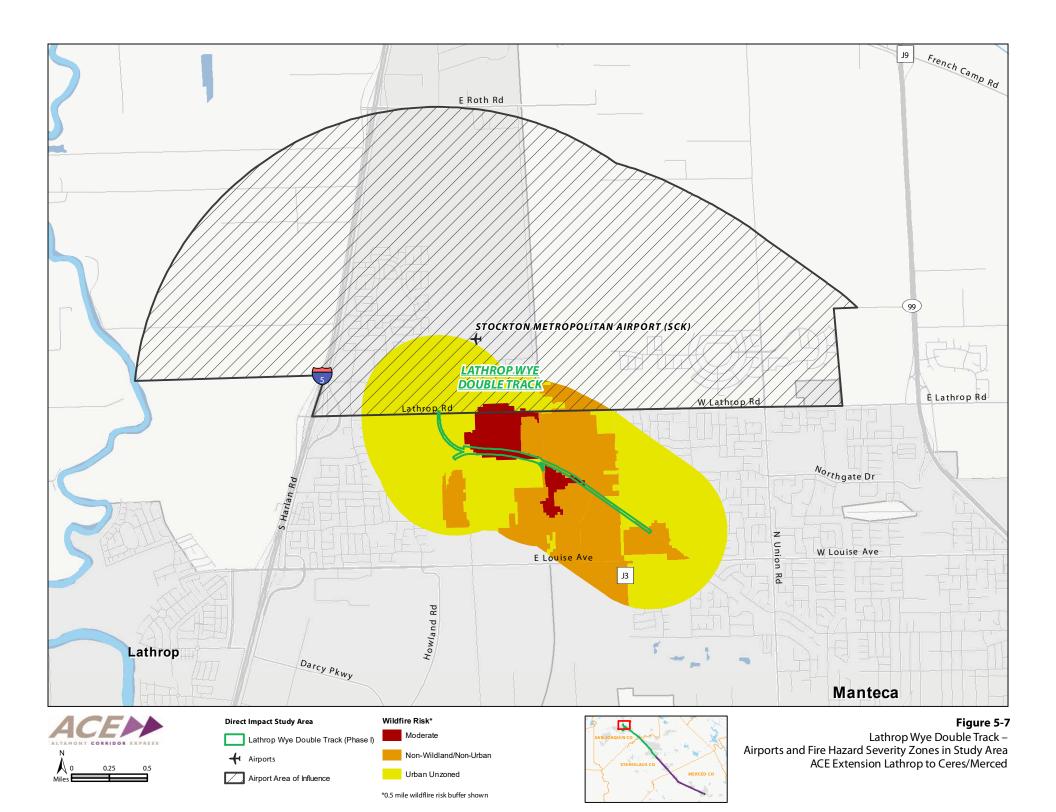
Figure 5-7 shows that a small portion of the Lathrop Wye Double Track would be located on the southern boundary of the Stockton Metropolitan Airport's Airport Influence Area (AIA). Impact SAF-1 in Section 4.16, *Safety and Security* identifies the restrictions in the airport land use plan. The improvements associated with the Lathrop Wye Double Track (track improvements, at-grade crossing modifications, and a culvert extension) would be done at grade; therefore, the Lathrop Wye Double Track would not exceed applicable height restrictions. Like the improvements analyzed in the draft EIR, there would be no impacts on airports or airport land use plans from the
 Lathrop Wye Double Track that could result in a safety hazard.

3 Construction of the **Lathrop Wye Double Track** would result in the same potential impacts on 4 emergency response as identified in Impact SAF-3 in Section 4.16, Safety and Security. Construction 5 of the Lathrop Wye Double Track could require limited temporary road closures and road 6 construction that could potentially cause increased traffic congestion in areas where emergency 7 vehicles operate. Also, construction activities near at-grade crossings could interfere with 8 emergency response by increasing traffic congestion and vehicle wait time. As described in Impact 9 SAF-3 in Section 4.16, Safety and Security, this impact would be reduced to a less than significant 10 level after implementation of Mitigation Measure TR-7.1, which requires the implementation of a 11 construction road traffic control plan. Operation of the ACE Extension with the Lathrop Wye 12 **Double Track** would be the same as the operational scenarios identified in the draft EIR. Therefore, 13 the operational impacts related to emergency plans, emergency response plan, or emergency 14 evacuation plans would be less than significant.

- Construction of the Lathrop Wye Double Track would occur entirely within the UPRR ROW and
   like the impacts identified in the draft EIR, could require limited temporary road closures and road
   construction that could potentially cause increased traffic congestion in areas where emergency
   vehicles operate. Also, construction activities near at-grade crossings could interfere with
   emergency response by increasing traffic congestion and vehicle wait time.
- 20 The Lathrop Wye Double Track would be located in an area of moderate fire hazard (see Figure 5-21 7). Impact SAF-3 in Section 4.16, Safety and Security identifies that the improvements associated 22 with the Phase I improvements would also be located in some moderate fire hazards area. Thus, the 23 impact associated with exposing people or structures to a significant risk of loss, injury, or death 24 involving wildland fires due to the Lathrop Wye Double Track would be the same as the impact 25 identified in Impact SAF-3 in Section 4.16, Safety and Security. The impact related to exposing people 26 or structures to a significant risk of loss, injury, or death involving wildland fires would be less than 27 significant for the Lathrop Wye Double Track because fire safety measures would be implemented 28 during construction pursuant to Cal. Code Regs., Title 14 and Title 19, and because vegetation 29 maintenance would reduce potential fire fuel along the tracks or cover the area along the tracks with 30 nonflammable materials.
- Construction and operation of the **Lathrop Wye Double Track** would be required to comply with the same safety requirements as identified in Impact SAF-4 in Section 4.16, *Safety and Security*. Thus, the impact of creating a hazard to workers, passengers, or adjacent receptors, from construction and operation of the **Lathrop Wye Double Track** would be the same as the impact identified in Impact SAF-4 in Section 4.16, *Safety and Security*. Hazards from construction activities and operation would be less than significant.

### 37 **5.2.16.2** Overall Impact Conclusion

Construction of the Lathrop Wye Double Track would result in additional safety and security
 impacts previously identified in Section 4.16, *Safety and Security*; however, these impacts can be
 reduced to a less than significant level with previously identified mitigation. Operational impacts
 would be the same as disclosed in Section 4.16, *Safety and Security*. The significance conclusions in
 Section 4.16, *Safety and Security* are not changed with the addition of the Lathrop Wye Double
 Track.



# **5.2.17** Transportation and Traffic

### 2 5.2.17.1 Impact Analysis

3 Construction of the **Lathrop Wye Double Track** includes improvements at the McKinley Avenue 4 and S Airport Way at-grade crossings. Construction impacts would be temporary and would not 5 impact overall transportation goals related to LOS, as described in Impact TR-1 in Section 4.17, 6 Transportation and Traffic. Impact TR-1 in Section 4.17, Transportation and Traffic, identifies 7 significant and unavoidable operational impacts at several intersections in Manteca and Modesto, 8 which would conflict with LOS standards identified in local planning documents. As stated in the 9 Impact TR-1 in Section 4.17, Transportation and Traffic, Mitigation Measures TR-7.2 and 7.3 would 10 reduce some, but not all of the significant operational traffic impacts. Operation of ACE with the 11 Lathrop Wye Double Track would be the same as the operational scenarios described in the draft 12 EIR. Therefore, the operational impacts related to conflicting with applicable plans and policies 13 would be the same as the significant and unavoidable impact analyzed in Impact TR-1 in Section 14 4.17, Traffic and Transportation.

Operation of ACE with the Lathrop Wye Double Track would have the same beneficial impact as
described in Impact TR-2 in Section 4.17, *Traffic and Transportation*. The ACE Extension is
consistent with Bay Area congestion management programs (CMPs) with respect to goals of
increasing transit ridership and reducing the number of commuters in passenger cars from outside
of the Bay Area. Therefore, the operational impacts of the Lathrop Wye Double Track, related to
conflicting with applicable congestion management plans would be less than significant, the same as
analyzed in Impact TR-2 in Section 4.17, *Traffic and Transportation* of the Draft EIR.

The Phase I improvements would not result in any change in air traffic patterns through an increase
 in air traffic levels or a change in location that results in substantial safety risks, as described in
 Impact TR-3 in Section 4.17, *Traffic and Transportation*. The Lathrop Wye Double Track entails
 construction of a new track, realignment of existing track, at-grade intersection modifications, and a
 culvert extension. Like the other Phase I improvements, the Lathrop Wye Double Track would not
 result in any changes in air traffic, and the impact would be less than significant.

- The Lathrop Wye Double Track would be required comply with all construction standard
   provisions, including federal, state, and local railroad and roadway safety standards, established by
   FRA, Caltrans, and all applicable city and county agencies responsible for maintenance of train and
   vehicle traffic. Therefore, the Lathrop Wye Double Track would not substantially increase hazards
   due to design features or incompatible uses, and impacts would be less than significant, the same as
   described in Impact TR-4 in Section 4.17, *Traffic and Transportation*.
- Like the other Phase I improvements, the Lathrop Wye Double Track would be served by existing
   or proposed transit, bicycle, and pedestrian infrastructure that would enhance or create new
- 36 multimodal connectivity and increase transit ridership. The **Lathrop Wye Double Track**
- 37 improvements would be in conformance with and would not conflict with applicable policies, plans,
- 38 and programs related to transit, bicycles and pedestrians. The impact would be less than significant,
- 39 the same as described in Impact TR-5 of the Draft EIR.
- 40 As described under Impact TR-6 in Section 4.17, *Traffic and Transportation*, operation of the ACE
- 41 Extension would shift travel demand from current driving trips to transit trips, which would result
- 42 in the reduction of VMT. Many adopted regional transportation plans take into consideration ACE

- 1 service and future expansion, including SJCOG, StanCOG, and MCAG, and therefore operations would
- 2 not conflict or create inconsistencies with regional transportation plans. Operation of ACE with the
- 3 **Lathrop Wye Double Track** would be the same as the operational scenarios described in the draft
- 4 EIR. Thus, regional VMT would be reduced, and operation of ACE with the **Lathrop Wye Double**
- 5 **Track** would not substantially disrupt future regional traffic operations. The impact on VMT from
- operation of ACE with the Lathrop Wye Double would be less than significant (beneficial), the same
   as described in Impact TR-6 in Section 4.17, *Traffic and Transportation*.
- 8 Construction of the Lathrop Wye Double Track would have similar construction impacts as those 9 identified in Impact TR-7a in Section 4.17, Traffic and Transportation. Traffic operations along 10 adjacent roadways could be temporarily impacted, and there would be some additional traffic due to 11 construction workers and construction equipment. These impacts would be intermittent and short 12 term. As described in Impact TRA-7a, these temporary impacts would be minimized through the 13 implementation of Mitigation Measure TR 7.1, which requires the preparation of a construction 14 management plan. Because construction activities for the Lathrop Wye Double Track would be 15 similar to construction activities for other Phase I improvements, the construction impacts would be 16 the same as the less than significant impact analyzed in Impact TR-7a in Section 4.17, Traffic and 17 Transportation.
- 18 Operation of ACE with the **Lathrop Wye Double Track** would be the same as the operational
- 19 scenarios described in the draft EIR. Thus, impacts on traffic operations from operation of ACE with 20 the **Lathrop Wye Double Track** would be the same as those described in Impact TRA-7b and TR-7c. 21 Overall, the ACE Extension would result in a VMT reduction by reducing the number of passenger 22 vehicles commuting to the Bay Area, and increasing transit use. The operational impacts on delay 23 and LOS in 2020 conditions would be the same as analyzed in the Impact TR-7b in Section 4.17, 24 *Traffic and Transportation*, and would be significant and unavoidable even after implementation of 25 Mitigation Measure TR-7.2. The operational impacts on delay and LOS in 2040 condition would be the same as analyzed in the Impact TR-7c in Section 4.17, Traffic and Transportation, and would be 26 27 significant and unavoidable even after implementation of Mitigation Measure TR-7.3.
- 28 Operation of ACE Extension would introduce new ACE service between Lathrop and Ceres. There 29 are existing and upgraded at-grade crossings to ensure hazards on roadways would be avoided. 30 Operation of ACE with the Lathrop Wye Double Track would entail additional at-grade crossings 31 as well as improvements to existing at-grade crossings. These safety measures and warning devices 32 would remain in place along the ACE Extension alignment, and operations would be the same as 33 those described in the Impact TR-7d in Section 4.17, Traffic and Transportation. Operational impacts 34 related to traffic hazards for operation of ACE with the **Lathrop Wye Double Track** would be the 35 same as analyzed in the Impact TR-7d in Section 4.17, Traffic and Transportation and would be less than significant after implementation of Mitigation Measure TR-7.1. 36
- 37 Construction of the Lathrop Wye Double Track would have similar construction impacts as 38 described in Impact TR-8a in Section 4.17, Traffic and Transportation. Construction could result in 39 some interruptions to existing ACE service. These impacts would be intermittent and short term. As 40 described in Impact TRA-8a in Section 4.17, Traffic and Transportation, these temporary impacts would be minimized through the implementation of Mitigation Measure TR 7.1, which requires the 41 42 preparation of a construction management plan. Construction activities for the Lathrop Wye 43 Double Track would be similar to those identified in Impact TRA-8a in Section 4.17, Traffic and 44 Transportation. Therefore, the construction impacts of the Lathrop Wye Double Track would be 45 the same as the less than significant impact analyzed in Impact TR-3a in Section 4.17, Traffic and

#### 1 *Transportation.*

2 Operations of the ACE Extension would not conflict or create inconsistences with adopted transit 3 plans, guidelines, policies or standards adopted by study area cities, counties, SJRRC, or the state of 4 California. It would increase ridership and connectivity, which would serve the population growth 5 that is projected for the area. It is unlikely that the relatively modest increases in ridership for other 6 transit services due to the ACE Extension would result in the need for additional transit 7 infrastructure. Operation of ACE with the Lathrop Wye Double Track would be the same as the 8 operational scenarios described in the draft EIR. Thus, operation of the **Lathrop Wye Double Track** 9 would have the same less than significant operational impact analyzed under Impact TR-8b in 10 Section 4.17, Traffic and Transportation.

11 The ACE Extension would not pose an impediment to connecting transit systems including Santa 12 Clara VTA, Wheels, San Joaquin Regional Transit District, Modesto MAX, and other rail and bus 13 transit systems serving the existing ACE route and expansion alignment. Safety measures and 14 warning devices would remain in place along the extension alignment, including at existing and 15 upgraded at-grade crossings that would provide transit system access to existing and new stations. 16 The Lathrop Wye Double Track would entail additional at-grade crossings as well as 17 improvements to existing at-grade crossings. These safety measures and warning devices would 18 remain in place along the extension alignment, and operations would be the same as those described 19 in the draft EIR. Construction and operational impacts related to traffic hazards would be the same 20 as analyzed in the Impact TR-8c in Section 4.17, Traffic and Transportation and would be less than 21 significant.

22 Like the other Phase I improvements, the Lathrop Wye Double Track would entail construction 23 impacts on pedestrian facilities. These temporary impacts would be limited to locations where 24 sidewalks and pedestrian/bicycle paths would require temporary closure to facilitate construction 25 activities. The Lathrop Wve Double Track would involve additional at-grade crossings as well as improvements to existing at-grade crossings and would have the same temporary impacts to 26 27 pedestrians and bikeways. Mitigation Measure TR-7.1 would reduce impacts to pedestrians and 28 bicyclists to a less-than-significant level. Construction impacts on pedestrian and bicycle facilities 29 would be the same as the impact identified in Impact TR-9a in Section 4.17, Traffic and 30 Transportation. Thus, the impact on pedestrian and bicycle facilities due to construction of the 31 Lathrop Wye Double Track would be less than significant after mitigation.

32 As described in Impact TR-9b in Section 4.17, Traffic and Transportation, operation of the ACE 33 Extension would cause increased volumes at pedestrian and bicycle facilities surrounding and 34 providing access to ACE stations. However, existing facilities are generally under capacity and 35 capable of accommodating increased pedestrian and bicycle volumes at stations. Operation of ACE 36 with the **Lathrop Wye Double Track** would be the same as the operational scenarios described in 37 the draft EIR. Thus, the impacts to existing or planned bicycle and pedestrian facilities from operation of ACE with the Lathrop Wye Double Track would be the same as the less than 38 39 significant impact analyzed in Impact TR-9b in Section 4.17, Traffic and Transportation.

40 As stated in impact TR-10a in Section 4.17, *Traffic and Transportation*, construction could result in 41 temporary impacts to emergency vehicle access. Construction activities for the **Lathrop Wye** 

41 temporary impacts to emergency vehicle access. Construction activities for the Lathrop Wye
 42 Double Track would be similar to those analyzed in impact TR-10a in Section 4.17, *Traffic and*

42 **Double Track** would be similar to those analyzed in impact TR-10a in Section 4.17, *Traffic and* 43 *Transportation*. Impacts related to emergency vehicle access would be the same as the impact

*Transportation.* Impacts related to emergency vehicle access would be the same as the impact
 identified in Impact TR-10a in Section 4.17, *Traffic and Transportation.* The impact on emergency

vehicle access due to construction of the Lathrop Wye Double Track would be less than significant
 after implementation of Mitigation Measure TR-7.1.

3 As stated under Impact TR-10b in Section 4.17, Traffic and Transportation, operation of the ACE 4 Extension would cause some minor delay to emergency vehicles. However, impacts to emergency 5 response from Phase I operations would be less than significant because the minor delays would 6 affect only the relatively small number of emergency vehicles that are actually traveling through the 7 subset of study intersections and because Phase I operations would substantially reduce overall 8 VMT in the ACE corridor. Operation of ACE with the Lathrop Wye Double Track would be the same 9 as the operational scenarios described in the draft EIR. Thus, the impacts to emergency vehicle 10 access and emergency response times from operation of ACE with the Lathrop Wye Double Track 11 would be the same as the less than significant impact analyzed in Impact TR-10b in Section 4.17, 12 Traffic and Transportation.

- 13 Temporary vehicle parking for construction of the **Lathrop Wye Double Track** will be provided for
- 14 construction vehicles, equipment, and workers within UPRR ROW, as well as staging and access
- 15 areas. Thus, existing local parking supply in areas near the **Lathrop Wye Double Track**
- 16 construction sites is not anticipated to be affected. Impacts related to temporary parking during
- 17 construction of the **Lathrop Wye Double Track** would be the same as the less than significant
- 18 impact analyzed in Impact TR-11a in Section 4.17, *Traffic and Transportation*. Furthermore,
- 19 implementation of Mitigation Measure TR-7.1 would further reduce this less than significant impact.
- As stated under Impact TR-11b in Section 4.17, *Traffic and Transportation*, new parking lots are

expected to accommodate the existing and new parking demand from operation of the ACE
 Extensions. As a result, no secondary traffic operational impacts relative to existing and proposed
 station parking facilities throughout the existing and proposed ACE system are expected for
 operation of ACE Extension. Operation of ACE with the Lathrop Wye Double Track would be the
 same as the operational scenarios described in the draft EIR. Thus, operational impacts of the
 Lathrop Wye Double Track would be the same as the impacts identified in Impact TR-11b in
 Section 4.17, *Traffic and Transportation*. The impact would be less than significant.

- As stated under Impact TR-12a in Section 4.17, *Traffic and Transportation*, construction of the ACE Extension could result in temporary impacts to freight service. Similar to the impacts described in
- 30 Impact TR-12a, construction activities for the **Lathrop Wye Double Track** would involve
- 31 construction equipment operating within the UPRR ROW and would have the potential for

temporary disruptions to UPRR freight service. Impacts on UPRR freight service due to construction
 of the Lathrop Wye Double Track would be the same as the impact identified in Impact TR-1a in
 Section 4.17, *Traffic and Transportation*. Thus, the impact on UPRR freight service due to
 construction of the Lathrop Wye Double Track would be less than significant after implementation

- 36 of Mitigation Measure TR-12.1.
- 37 Operation of the ACE Extension with the **Lathrop Wye Double Track** would be the same as the 38 operational scenarios identified in the draft EIR. While current freight traffic could be impacted 39 particularly in the Lathrop area, SIRRC would work with UPRR on the accommodation of new ACE 40 rail service along the Lathrop to Ceres segment, where a second main track would be constructed as 41 well as replacement of portions of existing track on the Fresno Subdivision. Because operations 42 would the same with the Lathrop Wye Double Track, the operational impacts on existing freight 43 operations would be the same as analyzed in the Impact TR-12b of the Draft EIR Section 4.17, Traffic 44 and Transportation, and would be less than significant.

## 1 5.2.17.2 Overall Impact Conclusion

Construction of the Lathrop Wye Double Track would result in additional impacts to
 transportation and traffic; however, these impacts can be reduced to a less than significant level
 with previously identified mitigation or would have the same residual unavoidable impact after
 mitigation as disclosed in the draft EIR for the Proposed Project. Operational impacts would be the
 same as disclosed in Section 4.17, *Traffic and Transportation*. The significance conclusions in Section
 4.17, *Traffic and Transportation* are not changed with the addition of the Lathrop Wye Double
 Track.

# 9 5.2.18 Utilities and Service Systems

#### 10 5.2.18.1 Impact Analysis

11 There is the potential for damage and disruption to gas and electric lines, water lines, sewer lines, 12 telecommunications lines, and irrigation and water supply canals. Table 5-12 indicates which known 13 utilities would be affected by the construction of the Lathrop Wye Double Track. In addition, there 14 are several utilities that would be within the direct study area that have not been identified by 15 service providers. Impact USS-1 in Section 4.18, Utilities and Service Systems identified that several 16 utilities would be affected by other Phase I improvements; thus, the impact from construction of the 17 Lathrop Wye Double Track would be the same as the construction impact identified in Impact 18 USS-1 in Section 4.18, Utilities and Service Systems. Thus, the impact on utility infrastructure from 19 construction of the Lathrop Wye Double Track would be less than significant after implementation 20 of Mitigation Measure USS-1.

21 Construction of the Lathrop Wye Double Track would be similar to the construction of other Phase 22 I improvements. Like other Phase I improvements, the Lathrop Wye Double Track would generate 23 wastewater from portable toilets; require water from use; and would temporarily change drainage 24 patterns due to grading, trenching, and other ground disturbance activities. These impacts would be 25 the same as the impacts described in Section 4.18, Utilities and Service Systems. Thus, construction of 26 the **Lathrop Wye Double Track** would result in a less than significant impact on water, wastewater, 27 and stormwater infrastructure because the source of wastewater would be temporary during 28 construction and would not necessitate the construction of new wastewater treatment facilities; 29 because water use would be temporary and would not place a long-term demand on local service 30 providers; and because construction would require the implementation of a stormwater pollution 31 prevention plan (SWPPP) that would ensure that stormwater runoff during construction would be controlled. 32

33 Operation of the Lathrop Wye Double Track would not require water or wastewater services. The 34 Lathrop Wye Double Track would not include any restrooms. No landscaping irrigation is 35 proposed on the **Lathrop Wye Double Track** that would require irrigation. No water would be 36 required and no wastewater would be generated from maintenance activities. Operation of ACE with 37 the Lathrop Wye Double Track would not increase the demand for water or wastewater services. 38 Thus, impact associated with operation of ACE with the Lathrop Wye Double Track would be the 39 same as the less than significant impact identified in Impact USS-3 in Section 4.18, Utilities and 40 Service Systems.

Like other Phase I improvements that would be located entirely within the UPRR ROW, operation of
the Lathrop Wye Double Track would not require storm drain facilities. Typically, railroad track

San Joaquin Regional Rail Commission

- 1 permits water to percolate through to the ground. As such, the addition of new track and track
- 2 improvements at Lathrop Wye Double Track would not result in the creation of substantial new
- 3 areas of impervious surface, and increases in stormwater runoff would be minimal. Installation of
- 4 new stormwater drainage or retention infrastructure would not be required along the track. Thus,
- 5 the impact would be less than significant.

#### 1 Table 5-12. Lathrop Wye Double Track - Utilities Potentially Affected

		Protect in Place					Relocate					
Phase I Improvements	Irrigation Canals	Gas and Electric Lines	Water Lines	Sewer Lines	Storm Drains	Telecom Lines	Irrigation Canals	Gas and Electric Lines	Water Lines		Storm Drains	Telecom Lines
Lathrop Wye Double Track	0	5	1	3	0	4	1 a	1	0	0	0	0

- 1 Construction of the **Lathrop Wye Double Track** would generate similar C&D waste and would be
- 2 located the same distance from landfills as the other Phase I improvements. As described in Impact
- 3 USS-5 in Section 4.18, *Utilities and Service Systems*, all the regional solid waste facilities accept C&D
- 4 material and the landfill facilities in the vicinity of the Phase I improvements have sufficient
- 5 remaining capacity (or a throughput) that would accommodate the temporary demand for waste
- 6 disposal generated by construction. Thus, the impact from the **Lathrop Wye Double Track** would
- 7 be less than significant.
- Like other Phase I improvements that do not create stations, the Lathrop Wye Double Track would
   not result in ongoing solid waste generation. Solid waste could occasionally be generated as part of
   routine track maintenance and would be diverted as required by the appropriate federal, state, and
   local regulatory guidance. Thus, impacts related to solid waste being generated from operation of
   the Lathrop Wye Double Track would be less than significant.

### 13 **5.2.18.2** Overall Impact Conclusion

- 14 Construction and operation of the **Lathrop Wye Double Track** would not result in any additional
- 15 impact to utilities beyond that disclosed in Section 4.18, *Utilities* for the reasons disclosed above. The
- 16 significance conclusions in Section 4.18 are not changed with the addition of the **Lathrop Wye**
- 17 **Double Track**.
- 18 Construction of the Lathrop Wye Double Track would result in additional impacts to utilities and 19 service systems previously identified in Section 4.18, *Utilities and Service Systems*; however, these
- service systems previously identified in Section 4.18, *Utilities and Service Systems*; however, these
   impacts can be reduced to a less than significant level with previously identified mitigation.
- 21 Operational impacts would be the same as disclosed in Section 4.18, *Utilities and Service Systems*.
- The significance conclusions in Section 4.18, *Utilities and Service Systems* are not changed with the
- 23 addition of the **Lathrop Wye Double Track**.

# 24 **5.2.19** Cumulative Impacts

25 As discussed above, the addition of the Lathrop Wye Double Track would not result in new 26 significant or substantially more severe impacts than those disclosed in the draft EIR. As such, the 27 potential contribution of the proposed project would not substantially change. As shown in Figure 5-28 1 in the draft EIR, cumulative projects were already identified adjacent to the **Lathrop Wye Double** 29 Track construction area. Since the impacts of the Lathrop Wye Double Track would not be 30 substantially different than the Proposed Project disclosed in the draft EIR, and nearby cumulative 31 projects were already included in the draft EIR, the significance conclusions about cumulative 32 effects of the Proposed Project with Lathrop Wye Double Track would be the same as disclosed in 33 the draft EIR.

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