3.2 Grading - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.07	0.00	0.07	0.01	0.00	0.01						0.00
Off-Road	5.09	33.55	25.01	0.04		2.41	2.41		2.41	2.41	0.00	3,825.40		0.45		3,834.95
Total	**5.09**	**33.55**	**25.01**	**0.04**	**0.07**	**2.41**	**2.48**	**0.01**	**2.41**	**2.42**	**0.00**	**3,825.40**		**0.45**		**3,834.95**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.45	27.57	14.98	0.04	22.56	0.97	23.53	0.14	0.97	1.12		4,315.92		0.12		4,318.42
Vendor	0.01	0.15	0.08	0.00	0.00	0.00	0.01	0.00	0.00	0.01		26.99		0.00		27.00
Worker	0.09	0.11	1.07	0.00	0.10	0.01	0.10	0.01	0.01	0.02		183.42		0.01		183.64
Total	**2.55**	**27.83**	**16.13**	**0.04**	**22.66**	**0.98**	**23.64**	**0.15**	**0.98**	**1.15**		**4,526.33**		**0.13**		**4,529.06**

3.3 Paving - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.60	16.05	10.35	0.02		1.37	1.37		1.37	1.37		1,458.82		0.23		1,463.74
Paving	0.02					0.00	0.00		0.00	0.00						0.00
Total	**2.62**	**16.05**	**10.35**	**0.02**		**1.37**	**1.37**		**1.37**	**1.37**		**1,458.82**		**0.23**		**1,463.74**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.04	0.05	0.43	0.00	0.10	0.00	0.11	0.00	0.00	0.01		73.37		0.00		73.45
Total	**0.04**	**0.05**	**0.43**	**0.00**	**0.10**	**0.00**	**0.11**	**0.00**	**0.00**	**0.01**		**73.37**		**0.00**		**73.45**

3.3 Paving - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.60	16.05	10.35	0.02		1.37	1.37		1.37	1.37	0.00	1,458.82		0.23		1,463.74
Paving	0.02					0.00	0.00		0.00	0.00						0.00
Total	**2.62**	**16.05**	**10.35**	**0.02**		**1.37**	**1.37**		**1.37**	**1.37**	**0.00**	**1,458.82**		**0.23**		**1,463.74**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.04	0.05	0.43	0.00	0.04	0.00	0.04	0.00	0.00	0.01		73.37		0.00		73.45
Total	**0.04**	**0.05**	**0.43**	**0.00**	**0.04**	**0.00**	**0.04**	**0.00**	**0.00**	**0.01**		**73.37**		**0.00**		**73.45**

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Unmitigated	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
User Defined Commercial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00
User Defined Commercial	9.50	7.30	7.30	0.00	0.00	0.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
NaturalGas Unmitigated	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Other Asphalt Surfaces	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
User Defined Commercial	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Total		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Other Asphalt Surfaces	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
User Defined Commercial	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Total		**0.00**	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**		**0.00**		**0.00**	**0.00**	**0.00**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Unmitigated	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.00					0.00	0.00		0.00	0.00						0.00
Consumer Products	0.00					0.00	0.00		0.00	0.00						0.00
Landscaping	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Total	**0.00**	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**		**0.00**		**0.00**		**0.00**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.00					0.00	0.00		0.00	0.00						0.00
Consumer Products	0.00					0.00	0.00		0.00	0.00						0.00
Landscaping	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Total	**0.00**	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**		**0.00**		**0.00**		**0.00**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Vegetation

Appendix B

Air Quality
Localized Significance Thresholds

Temescal Creek - Foster Road Storm Drain
Storm Drain and Oulet Installation

	Construction Activity	
	Excavation	123,588 Square Feet[a]
Site Preparation Schedule -	**1 days[a]**	

Equipment Type[a,b]	No. of Equipment	hr/day	Crew Size
Rubber Tired Loaders	1	8.0	5
Excavators	2	8.0	
Tractors/Loaders/Backhoes	1	8.0	

Construction Equipment Emission Factors

Equipment Type[c]	CO lb/hr	NOx lb/hr	PM10 lb/hr
Rubber Tired Loaders	0.521	1.225	0.069
Excavators	0.570	1.234	0.068
Tractors/Loaders/Backhoes	0.399	0.723	0.056

Fugitive Dust Grading Parameters

Vehicle Speed (mph)[d]	Vehicle Miles Traveled[e]
3	2.13

Fugitive Dust Stockpiling Parameters

Silt Content[f]	Precipitation Days[g]	Mean Wind Speed Percent[h]	TSP Fraction	Area (acres)[i]
6.9	10	100	0.5	0.06

Fugitive Dust Material Handling

Aerodynamic Particle Size Multiplier[j]	Mean Wind Speed[k] mph	Moisture Content[l]	Dirt Handled[a] cy	Dirt Handled[i] lb/day
0.35	10	7.9	444	1,110,000

Temescal Creek - Foster Road Storm Drain
Storm Drain and Oulet Installation

Construction Vehicle (Mobile Source) Emission Factors

	CO lb/mile	NOx lb/mile	PM10 lb/mile
Heavy-Duty Truck[m]	0.012822	0.041846	0.001996

Construction Worker Number of Trips and Trip Lengtl

Vehicle	No. of One-Way Trips/Day	One-Way Trip Length (miles)
Haul Truck[n]	4	0.1
Water Truck[o]	3	4

Incremental Increase in Onsite Combustion Emissions from Construction Equipmen

Equation: Emission Factor (lb/hr) x No. of Equipment x Work Day (hr/day) = Onsite Construction Emissions (lb/day)

Equipment Type	CO lb/day	NOx lb/day	PM10 lb/day
Rubber Tired Loaders	4.17	9.80	0.55
Excavators	9.11	19.74	1.09
Tractors/Loaders/Backhoes	3.19	5.78	0.45
Total	**16.5**	**35.3**	**2.09**

Incremental Increase in Fugitive Dust Emissions from Construction Operation

Equations:

Grading[p]: PM10 Emissions (lb/day) = 0.60 x 0.051 x mean vehicle speed$^{2.0}$ x VMT x (1 - control efficiency)

Storage Piles[q]: PM10 Emissions (lb/day) = 1.7 x (silt content/1.5) x ((365-precipitation days)/235) x wind speed percent/15 x TSP fraction x Area) x (1 - control efficiency)

Material Handling[r] PM10 Emissions (lb/day) = (0.0032 x aerodynamic particle size multiplier x (wind speed (mph)/5)$^{1.3}$/(moisture content/2)$^{1.4}$ x dirt handled (lb/day)/2,000 (lb/ton) (1 - control efficiency)

Description	Control Efficiency %	PM10[s] lb/day
Earthmoving	61	0.23
Storage Piles	61	0.92
Material Handling	61	0.09
Total		**1.24**

Temescal Creek - Foster Road Storm Drain
Storm Drain and Oulet Installation

Incremental Increase in Onsite Combustion Emissions from Onroad Mobile Vehicle

Equation: Emission Factor (lb/mile) x No. of One-Way Trips/Day x 2 x Trip length (mile) = Mobile Emissions (lb/day)

	CO	NOx	PM10
Vehicle	lb/day	lb/day	lb/day
Haul Truck	0.01	0.03	0.00
Water Truck	0.31	1	0.048
Total	**0.32**	**1.03**	**0.05**

Total Incremental Localized Emissions from Construction Activitie

	CO	NOx	PM10
Sources	lb/day	lb/day	lb/day
On-site Emissions	**16.8**	**36.4**	**3.4**
Significance Threshold[f]	***1003***	***170***	***6***
Exceed Significance?	**NO**	**NO**	**NO**

Combustion and Fugitive Summary	**PM2.5 Fraction**[n]	**PM10**	**PM2.5**
		lb/day	lb/day
Combustion (Offroad)	0.92	2.1	1.9
Combustion (Onroad)	0.96	0.05	0.05
Fugitive	0.21	1	0
Total		**3.4**	**2.2**
Significance Threshold[f]			**5**
Exceed Significance?			**NO**

Notes:

Project specific data may be entered into shaded cells. Changing the values in the shaded cells will not affect the integrity of the worksheets. Verify that units of values entered match units for cell. Adding lines or entering values with units different than those associated with the shaded cells may alter the integrity of the sheets or produce incorrect results.

a) SCAQMD, estimated from survey data, Sept 2004

b) Equipment name must match CARB Off-Road Model (see Off-Road Model EF worksheet) equipment name for sheet to look up EFs automatically.

c) SCAB values provided by the ARB, Oct 2006. Assumed equipment is diesel fueled.

d) Caterpillar Performance Handbook, Edition 33, October 2003 Operating Speeds, p 2-3.

e) Assumed 13 foot wide blade with 2 foot overlap (11 foot wide). Vehicle miles traveled (VMT) = (123,588 sq ft/11 foot x mile/5,280 ft)/1 days = 2.13miles

f) USEPA, AP-42, Jan 1995, Table 11.9-3 Typical Values for Correction Factors Applicable to the Predictive Emission Factor Equations

g) Table A9-9-E2, SCAQMD CEQA Air Quality Handbook, 1993

h) Mean wind speed percent - percent of time mean wind speed exceeds 12 mph. At least one meteorological site recorded wind speeds greater than 12 mph over a 24-hour period in 1981.

i) Assumed storage piles are 0.06 acres in size

j) USEPA, AP-42, Jan 1995, Section 13.2.4 Aggregate Handling and Storage Piles, p 13.2.4-3 Aerodynamic particle size multiplier for < 10 μm

Temescal Creek - Foster Road Storm Drain
Storm Drain and Oulet Installation

k) Mean wind speed - maximum of daily average wind speeds reported in 1981 meteorological data.
l) Assuming 444 cubic yards of dirt handled [(444 cyd x 2,500 lb/cyd)/1 days = 1,110,000 lb/day]
m) 2009 fleet year. http://www.aqmd.gov/ceqa/handbook/onroad/onroad.html.
n) Assumed 30 cubic yd truck capacity for 444 cyd of dirt [(444 cyd x truck/30 cyd)/1 days = 4 one-way truck trips/day]. Multiple trucks may be used.
o) Assumed six foot wide water truck traverses over 123,588 square feet of disturbed area
p) USEPA, AP-42, Jan 1995, Table 11.9-1, Equation for Site Grading ≤ 10 µm
q) USEPA, Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, Sept 1992, EPA-450/2-92-004, Equation 2-12
r) USEPA, AP-42, Jan 1995, Section 13.2.4 Aggregate Handling and Storage Piles, Equation 1
s) Includes watering at least three times a day per Rule 403 (61% control efficiency).
t) Illustration purpose showing the most stringent LSTs. Please consult App. C of the Methodology Paper for applicable LSTs.
u) ARB's CEIDARS database PM2.5 fractions - construction dust category for fugitive and diesel vehicle exhaust category for combustion.

Temescal Creek - Foater Road Storm Drain
Paving

	Construction Activity
	Paving road after storm drain installation
Construction Schedule	**1 days**[a]

Equipment Type[a,b]	**No. of Equipment**	**hr/day**	**Crew Size**
Pavers	1	8.0	8
Paving Equipment	1	8.0	
Rollers	1	8.0	
Tractors/Loaders/Backhoes	0	8.0	

Construction Equipment Combustion Emission Factors

	CO	**NOx**	**PM10**
Equipment Type[c]	lb/hr	lb/hr	lb/hr
Pavers	0.576	1.032	0.074
Paving Equipment	0.454	0.940	0.066
Rollers	0.427	0.817	0.057
Tractors/Loaders/Backhoes	0.399	0.723	0.056

Construction Vehicle (Mobile Source) Emission Factors

	CO lb/mile	**NOx** lb/mile	**PM10** lb/mile
Heavy-Duty Truck[d]	0.012822365	0.041845907	0.001996

On-Site Number of Trips and Trip Length

Vehicle	**No. of One-Way Trips/Day**	**One-Way Trip Length (miles)**
Delivery Truck[e]	3	0.1
Water Truck[f]	3	1.3

Temescal Creek - Foater Road Storm Drain
Paving

Incremental Increase in Onsite Idling Emissions from Onroad Mobile Vehicles

Equation: Emission Factor (lb/hr) x No. of Equipment x Work Day (hr/day) = Onsite Construction Emissions (lb/day)

Equipment Type	**CO** lb/day	**NOx** lb/day	**PM10** lb/day
Pavers	4.60	8.26	0.59
Paving Equipment	3.42	6.53	0.46
Rollers	3.63	7.52	0.52
Tractors/Loaders/Backhoes	0.00	0.00	0.00
Total	**11.66**	**22.31**	**1.57**

Incremental Increase in Offsite Combustion Emissions from Construction Vehicles

Equation: Emission Factor (lb/mile) x No. of One-Way Trips/Day x 2 x Trip length (mile) = Mobile Emissions (lb/day)

Vehicle	**CO** lb/day	**NOx** lb/day	**PM10** lb/day
Flatbed Truck	0.008	0.025	0.0012
Water Truck	0.100	0.326	0.0156
Total	**0.108**	**0.352**	**0.0168**

Total Incremental Combustion Emissions from Construction Activities

Sources	**CO** lb/day	**NOx** lb/day	**PM10** lb/day
On-Site Emissions	**11.8**	**22.7**	**1.6**
Significance Threshold[g]	***674***	***118***	***4***
Exceed Significance?	**NO**	**NO**	**NO**

Combustion and Fugitive Summary	**PM2.5 Fraction**[h]	**PM10** lb/day	**PM2.5** lb/day
Combustion (Offroad)	0.92	1.6	1.4
Combustion (Onroad)	0.96	0.017	0.016
Fugitive	0.21	0	0
Total		**1.6**	**1.5**
Significance Threshold[g]			**3**
Exceed Significance?			**NO**

Temescal Creek - Foater Road Storm Drain
Paving

Notes:

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a) SCAQMD, estimated from survey data, Sept 2004

b) Equipment name must match CARB Off-Road Model (see Off-Road Model EF worksheet) equipment name for sheet to look up EFs automatically.

c) SCAB values provided by the ARB, Oct 2006. Assumed equipment is diesel fueled.

d) 2009 fleet year. http://www.aqmd.gov/ceqa/handbook/onroad/onroad.html.

e) Assumed haul truck travels 0.1 miles through facility

f) Assumed six foot wide water truck traverses over 40,000 square feet of disturbed area

g) For illustration purposes only, this analysis is based on the most stringent LSTs. Please consult App. C of the Methodology Paper for applicable LSTs.

h) ARB's CEIDARS database PM2.5 fractions - construction dust category for fugitive and diesel vehicle exhaust category for combustion.

Appendix C

Joint Project Review 12-01-21-01

3403 10th Street, Suite 320
Riverside, California 92501

P.O. Box 1667
Riverside, California 92502-1667

Phone: (951) 955-9700
Fax: (951) 955-8873
www.wrc-rca.org

February 12, 2013

Art Diaz
Riverside County Flood Control and Water Conservation District
1995 Market Street
Riverside, California 92501

Dear Mr. Diaz:

Please find the following JPR attached:

JPR 12-01-21-01. The Local Identifier is the Riverside County Flood Control and Water Conservation District. The JPR file attached includes the following:

- RCA JPR
- Exhibit A, Vicinity Map with MSHCP Schematic Cores and Linkages
- Exhibit B, Criteria Area Cells with MSHCP Vegetation and Project Location
- Exhibit C, Criteria Area Cells with Aerial Photograph and Proposed Project Impacts
- Regional Map.

Thank you,

Stephanie Standerfer
Western Riverside County Regional Conservation Authority

cc:

Karin Cleary-Rose
U.S. Fish and Wildlife Service
777 East Tahquitz Canyon Way,
Suite 208
Palm Springs, California 92262

Heather A. Pert
California Dept. of Fish and Wildlife
3602 Inland Empire Blvd. #C220
Ontario, California 91764

Regional Conservation Authority
Western Riverside County

RCA Joint Project Review (JPR)
PUBLIC PROJECT

JPR #: 12-02-21-01
Date: 2-12-13

Project Information

Permittee: **Riverside County Flood Control and Water Conservation District (District)**
Case Information: **Temescal Creek – Foster Road Storm Drain, Stage 1**

Requirements Related to Planned Facilities

Consistency Conclusion: ***The proposed project demonstrates consistency with the requirements for covered flood control projects and with other requirements of the MSHCP.***

Data:
Applicable Core/Linkage: Proposed Extension of Existing Core 2
Area Plan: Temescal Canyon

APN	Sub-Unit	Cell Group	Cell
282-122-001 282-122-002 282-122-003 282-140-020 283-060-004 283-060-005 283-060-007 283-060-008 283-060-013 283-060-028 283-060-029	SU3 – Temescal Wash West	D	2723

Comments:

a. As stated in Section 3.2.3 of the MSHCP, "Proposed Extension of Existing Core 2 (Lake Mathews/Estelle Mountain Extension) consists of private lands located in the western region of the Plan Area. Proposed Extension of Existing Core 2 is contiguous with Existing Core C (Lake Mathews/Estelle Mountain) along the length of its eastern border and serves to extend the Habitat in the Lake Mathews/Estelle Mountain area and smooth out edges along the border of this Core. Proposed Extension of Existing Core 2 is also connected to Proposed Constrained Linkage 4 (North Temescal Wash) in the north; and Proposed Linkage 1 and Proposed Constrained Linkages 3, 5 (Horsethief Canyon), and 6 (Temescal Wash south) in the south. The Lake Mathews/Estelle Mountain Extension supports populations of coastal California gnatcatcher; thus high quality, connected Habitat must be maintained in this area which is surrounded by city (Corona) and community Development planned land uses. In addition, the proposed Hemet to Corona/Lake Elsinore CETAP Corridor Alternative 1B intersects the extension and may contribute to Edge Effects, if chosen.

The Planning Species for Proposed Extension of Existing Core 2 are Cooper's hawk, southern California rufous-crowned sparrow. Bell's sage sparrow, yellow warbler, white-tailed kite, southwestern willow flycatcher, yellow-breasted chat, loggerhead shrike, downy woodpecker, coastal California gnatcatcher, least Bell's vireo, Stephen's kangaroo rat, bobcat, mountain lion, Munz's onion, long-spined spine flower, and many stemmed dudleya."

b. The proposed project is located within Cell Group D. Conservation within Cell group D will contribute to assembly of Proposed Extension of Existing Core 2. Conservation within Cell Group D will focus on coastal sage scrub, grassland, and wetland habitat. Areas conserved within Cell Group D will be connected to a variety of uplands proposed for conservation in Cell Groups C and E to the north and south. Conservation within Cell Group D will range from 75–85% of the Cell Group focusing on the central and eastern portions of the Cell Group.

c. Rough Step: The proposed project is within Rough Step Unit 7. Rough Step Unit 7 encompasses 130,824 acres within the central northwestern corner of western Riverside County. Rough Step Unit 7 includes Lake Matthews, Estelle Mountain, Motte Rimrock Preserve, and upland habitats in the Gavilan Hills and Harford Springs Park, and includes portions of the cities of Corona, Riverside, and Perris. Rough Step Unit 7 is bounded by State Route 91 to the north, Interstate 215 to the east, and the Santa Ana Mountains to the west. Within Rough Step Unit 7, there are 26, 775 acres within the Criteria Area. Key vegetation communities within Rough Step Unit 7 include coastal sage scrub; grasslands; woodlands and forests; riparian scrub, woodland, forest; and Riversidean alluvial fan sage scrub. In 2011, all vegetation categories are "in" rough step. According to the General Biological Report prepared by Glenn Lukos Associates (GLA) dated September 23, 2011, vegetation communities within the project area consist of agricultural land, disturbed/developed lands, ornamental vegetation, ruderal areas, mulefat scrub, southern cottonwood willow riparian forest, coast live oak, Riversidean sage scrub, and willow trees. The Riversidean Sage Scrub (RSS) identified by GLA was found to be dominated by Encelia farinose, which is not a Riversidean Alluvial Fan Sage Scrub (RAFSS) component. Although there were a few individuals of scale broom identified within the RSS, GLA determined that these individuals were not sufficient to find that the RSS would constitute RAFSS. Therefore, development on the project site will not conflict with or interfere with the Rough Step status of Unit 7.

d. Project information was provided by Riverside County Flood Control and Water Conservation District (District), as well as in the General Biological Report prepared by GLA dated September 23, 2011 and the Determination of Biologically Equivalent or Superior Preservation (DBESP) Analysis prepared by GLA dated September 20, 2011, which was provided by the Permittee in the JPR application. Additionally, an Addendum to the Determination of Biologically Equivalent or Superior Preservation (DBESP) Analysis and General Biological Report (GBR) dated January 16, 2013was provided by the District in response to questions from the RCA. The project area is located south of Weirick Road, west of Temescal Creek, north of Leroy Road, and east of the Interstate 15 freeway in unincorporated Riverside County, California. The proposed 11.20 acre project consists of the construction and subsequent operation and maintenance of approximately 2,000 lineal feet of reinforced concrete pipe

(RCP) ranging in size from 30-inches to 72-inches in diameter. The proposed storm drain outlets into Temescal Creek approximately 1,300 feet east of Temescal Canyon Road. The outlet structure will consist of an armored cove area that will be excavated away from Temescal Creek in order to minimize impacts to the creek. From the outlet, the proposed project will transition into an underground RCP and traverse southwesterly within an unpaved road and an open field currently used for the cultivation of mint and watercress. The RCP will then head east within the existing Foster Road right-of-way and connect to an existing Interstate 15 freeway culvert located east of Temescal Canyon Road. In addition, a lateral will connect to the mainline at the intersection of Foster Road and Temescal Canyon Road and will extend approximately 300 feet south in Temescal Canyon Road.

e. A portion of the project is located in lands currently designated as Additional Reserve Lands (ARL) located within Temescal Creek. This ARL is land that is subject to a conservation easement held by Riverside Corona-Resource Conservation District (RCRCD). Approximately 2.65 acres of ARL is located within the project study area, however the project will only impact 1.13 acres of the 2.65 acres. When the project is finished, there will be an increase in the amount of ARL; a total of 1.26 acres will be ARL because the District will put a Conservation Easement on an additional 0.13 acres of land which will be restored with Southern Cottonwood Willow Riparian Forest (currently this 0.13 acre-area is upland/disturbed/developed). Therefore, since the project will result in a net increase of ARL when completed, and ARL that has better habitat than currently exists, there will be no net impact to the Reserve design as a result of the project.

f. The proposed project is a Covered Activity pursuant to Section 7.3.7 of the MSHCP. As stated in Section 7.3.7 of the MSHCP, flood control facilities (improvements and new construction) within the Criteria Area that are undertaken by a Permittee are Covered Activities. The project is a flood control improvement project within Temescal Creek that will be undertaken by the District, which is a Permittee under the MSHCP and is therefore considered a Covered Activity.

g. Part of the proposed project alignment is located outside of a Criteria Cell while the other part of the proposed project alignment is located within the western portion of Cell Group D, which is away from the central and eastern parts described for Conservation. In addition, the proposed project is a Covered Activity as stated in Section 7.3.7 – Flood Control Facilities - of the MSHCP. Therefore, the proposed project would conflict with the Reserve Assembly of the MSHCP.

Other Plan Requirements

Data:

Section 6.1.2 – Was Riparian/Riverine/Vernal Pool Mapping or Information Provided?

Yes. There are riparian/riverine areas on the project site. There are suitable habitat for least Bell's vireo, southwestern willow flycatcher, and western yellow-billed cuckoo on the project site. There are no vernal pools or fairy shrimp on the project site.

Section 6.1.3 – Was Narrow Endemic Plant Species Survey Information Provided?

Yes. The project site is located within a Narrow Endemic Plant Species Survey Area (NEPSSA) for Munz's onion, San Diego ambrosia, Slender-Horned Spineflower, Many-stemmed dudleya, Spreading navarretia, California Orcutt grass, San Miguel savory, Hammitt's clay-cress, and Wright's trichocoronis.

Section 6.3.2 – Was Additional Survey Information Provided?

Yes. The project site is located within a Criteria Area Species Survey Area (CASSA) for Thread-leaved brodiaea, Davidson's saltscale, Parish's brittlescale, Smooth Tarplant, Round-leaved filaree, Coulter's goldfields, Little Mousetail. The project site is also located in an Additional Survey Area for Burrowing Owl.

Section 6.1.4 – Was Information Pertaining to Urban/Wildland Interface Guidelines Provided?

Yes. The property is located within future and existing Conservation Areas.

Comments:

a. Section 6.1.2: According to the General Biological Report by GLA dated September 23, 2011, the project study area contains approximately 1.64 acres of riparian/riverine habitat, including mulefat scrub and Southern Cottonwood Willow Riparian Forest (see Exhibit 8 of GBR report). Construction of the storm drain outlet system will result in approximately 0.12 acre of permanent impacts to riparian habitat and 0.39 acre of temporary impacts to riparian habitat within Temescal Creek consisting of Southern Cottonwood Willow Riparian Forest. Since the project will impact riparian/riverine resources, a Determination of Biologically Equivalent or Superior Preservation (DBESP) was prepared by GLA dated September 20, 2011, and the District provided an Addendum dated January 16, 2013. According to the DBESP and Addendum, the project will restore all temporary impacts to riparian habitats with the same vegetation that is impacted following completion of construction at a 1:1 ratio (0.39 acres) and will be subject to long-term monitoring to ensure success (see Exhibit 6 of DBESP). The project will also create onsite vegetated riparian habitat for the 0.12 acre permanent impacts to riparian habitat by creating 0.46 acres of Southern Cottonwood Willow Riparian Forest (See Exhibit 5 of Addendum). Table 6-1 of the September 2011 DBESP includes the native riparian species that will be used in the restoration of the mitigation site. The DBESP noted that the mitigation site will be monitored for 5 years following the completion of mitigation installation unless final success criteria are met prior to the 5 years. The RCRCD conservation easement will be amended to include the additional 0.13 acres of Southern Cottonwood Willow Riparian Forest that will be created as new ARL land (see item e. above) so this area will be subject to long term management.

According to the General Biological Report by GLA dated September 23, 2011, GLA identified suitable habitat for least Bell's vireo (LBV), southwestern willow flycatcher (SWF), and western yellow-billed cuckoo (WYBC) within the vegetated riparian habitat within Temescal Creek. Therefore, focused surveys were warranted. GLA conducted least Bell's vireo surveys on April 29, 2010, May 12 and 26, 2010, June 9, 19, and 30, 2010, and July 17 and 28, 2010. GLA heard 3 LBV territorial males vocalizing within Temescal Creek from the southern end of the project study area north to the southern end of the golf course during the April 29, 2010, May 26, 2010, June 19, 2010, and July 28, 2010 survey dates. GLA only heard 2 of the 3 LBV within the project study area. The proposed project will result in 0.12 acre of permanent impacts and 0.39 acre of temporary impacts to occupied or potentially occupied suitable LBV habitat (see Exhibit 6 of General Biological Report). GLA conducted southwestern willow flycatcher on May 26, 2010, June 9 and 30, 2010, July 5 and 17, 2010. GLA did not detect SWF within the project study area during the time of the surveys. GLA did detect one migrant willow flycatcher approximately 1,205 feet north of the northern survey area limit during the June 9, 2010 focused survey near an offsite unnamed tributary to Temescal Creek, but determined that the willow flycatcher was a migrant due to the lack of courtship and/or nesting behavior and the lack of detection of this willow flycatcher or other willow flycatchers during subsequent surveys. GLA conducted western yellow-billed cuckoo on June 30, 2010, July 5 and 17, 2010, and August 13, 2010. No WYBC was detected during the time of the focused surveys. The creation of 0.46 acres of Southern Cottonwood Willow Riparian Forest will provide equivalent or superior habitat for the LBV using the existing habitats after project completion. Soils within the project area include gravelly loam, loamy sand, coarse sandy loam, very fine sandy loam, fine sandy loam, loam, and terrace escarpments, which do not provide suitable habitat for vernal pools or fairy shrimp habitat. Based on the information provided by GLA, and the Permittees' implementation of the DBESP and Addendum, the project demonstrates compliance with Section 6.1.2 of the MSHCP.

b. Section 6.1.3: The project site is located within a Narrow Endemic Plant Species Survey Area (NEPSSA) for Munz's onion, San Diego ambrosia, Slender-Horned Spineflower, Many-stemmed dudleya, Spreading navarretia, California Orcutt grass, San Miguel savory, Hammitt's clay-cress, and Wright's trichocoronis. A habitat assessment was conducted by GLA on April 16, 2010. GLA did not observe any of the species during the time of the habitat assessment. Based on the information provided by GLA, the project demonstrates compliance with Section 6.1.3 of the MSHCP.

c. Section 6.3.2: The project site is located within a Criteria Area Species Survey Area (CASSA) for Thread-leaved brodiaea, Davidson's saltscale, Parish's brittlescale, Smooth Tarplant, Round-leaved filaree, Coulter's goldfields, and Little Mousetail. A habitat assessment was conducted by GLA on April 16, 2010. GLA did not observe any of the species during the time of the habitat assessment. The project site is also located in an Additional Survey Area for Burrowing Owl. According to GLA, a small portion of the project study area is located within the MSHCP survey area for burrowing owl. GLA conducted an initial habitat assessment on April 16, 2010 only within the project study area that falls within the burrowing owl survey area. GLA observed some potential burrowing owl habitat areas, including concrete and brick debris piles that could be used as burrow sites, but stated that these areas

were not within the MSHCP mapped burrowing owl survey area or within the 150-meter buffer area surrounding the project study area and determined that focused surveys were not required. No burrowing owls or signs of burrowing owls were observed at the time of the habitat assessment. Based on the information provided by GLA, the project demonstrates compliance with Section 6.1.3 of the MSHCP.

d. Section 6.1.4: Future and existing Conservation Areas are located within the project site. To preserve the integrity of areas dedicated as MSHCP Conservation Areas, the guidelines contained in Section 6.1.4 related to controlling adverse effects for development adjacent to the MSHCP Conservation Area should be considered by the Permittee in their actions relative to the project. Specifically, the Permittee should include as project conditions of approval the following measures:

   i. Incorporate measures to control the quantity and quality of runoff from the site entering the MSHCP Conservation Area. In particular, measures shall be put in place to avoid discharge of untreated surface runoff from developed and paved areas into MSHCP Conservation Areas.

   ii. Land uses proposed in proximity to the MSHCP Conservation Area that use chemicals or generate bioproducts, such as manure, that are potentially toxic or may adversely affect wildlife species, Habitat, or water quality shall incorporate measures to ensure that application of such chemicals does not result in discharge to the MSHCP Conservation Area. The greatest risk is from landscaping fertilization overspray and runoff.

   iii. Night lighting shall be directed away from the MSHCP Conservation Area to protect species within the MSHCP Conservation Area from direct night lighting. Shielding shall be incorporated in project designs to ensure ambient lighting in the MSHCP Conservation Area is not increased.

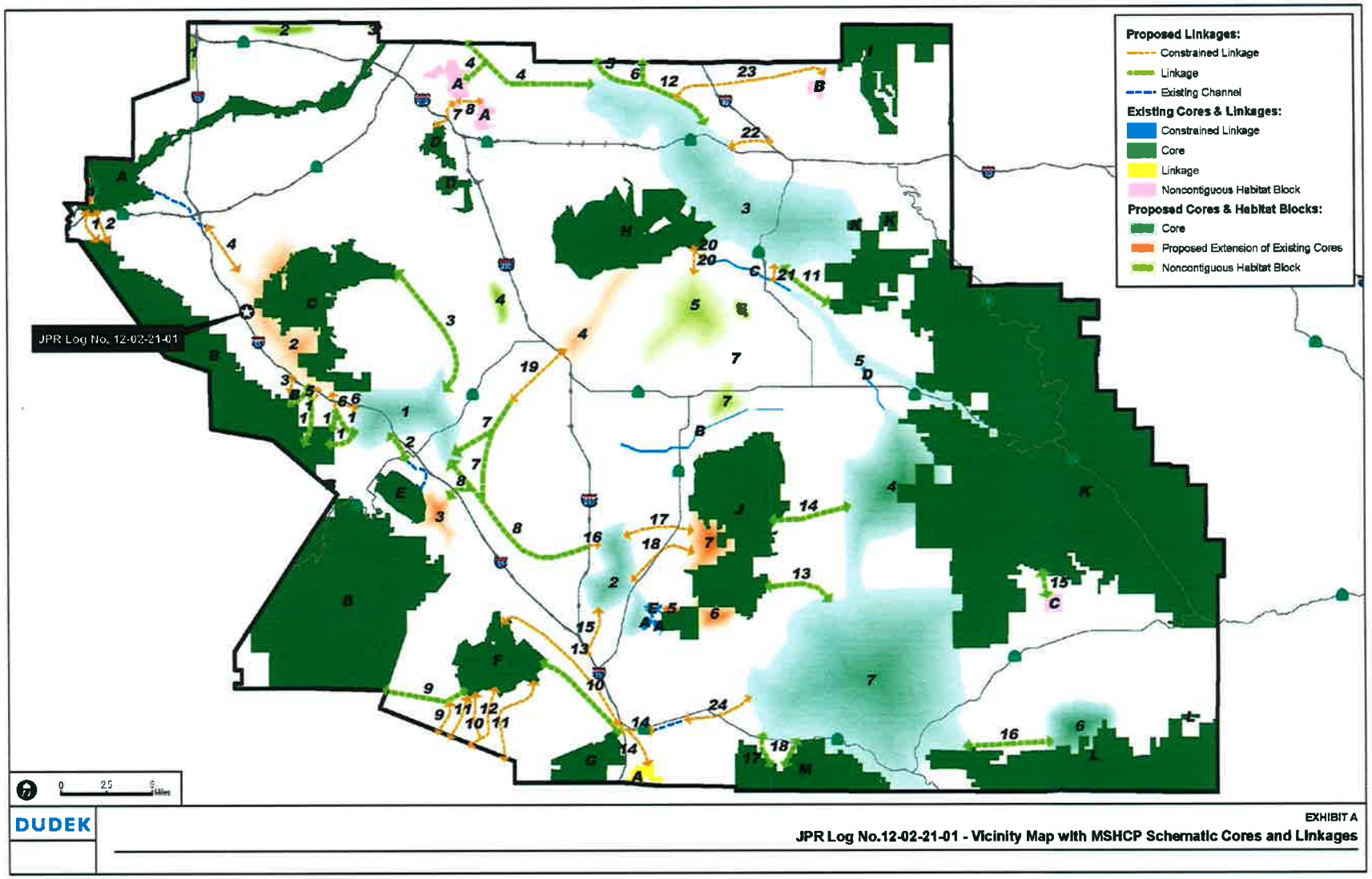
   iv. Proposed noise-generating land uses affecting the MSHCP Conservation Area shall incorporate setbacks, berms, or walls to minimize the effects of noise on MSHCP Conservation Area resources pursuant to applicable rules, regulations, and guidelines related to land use noise standards.

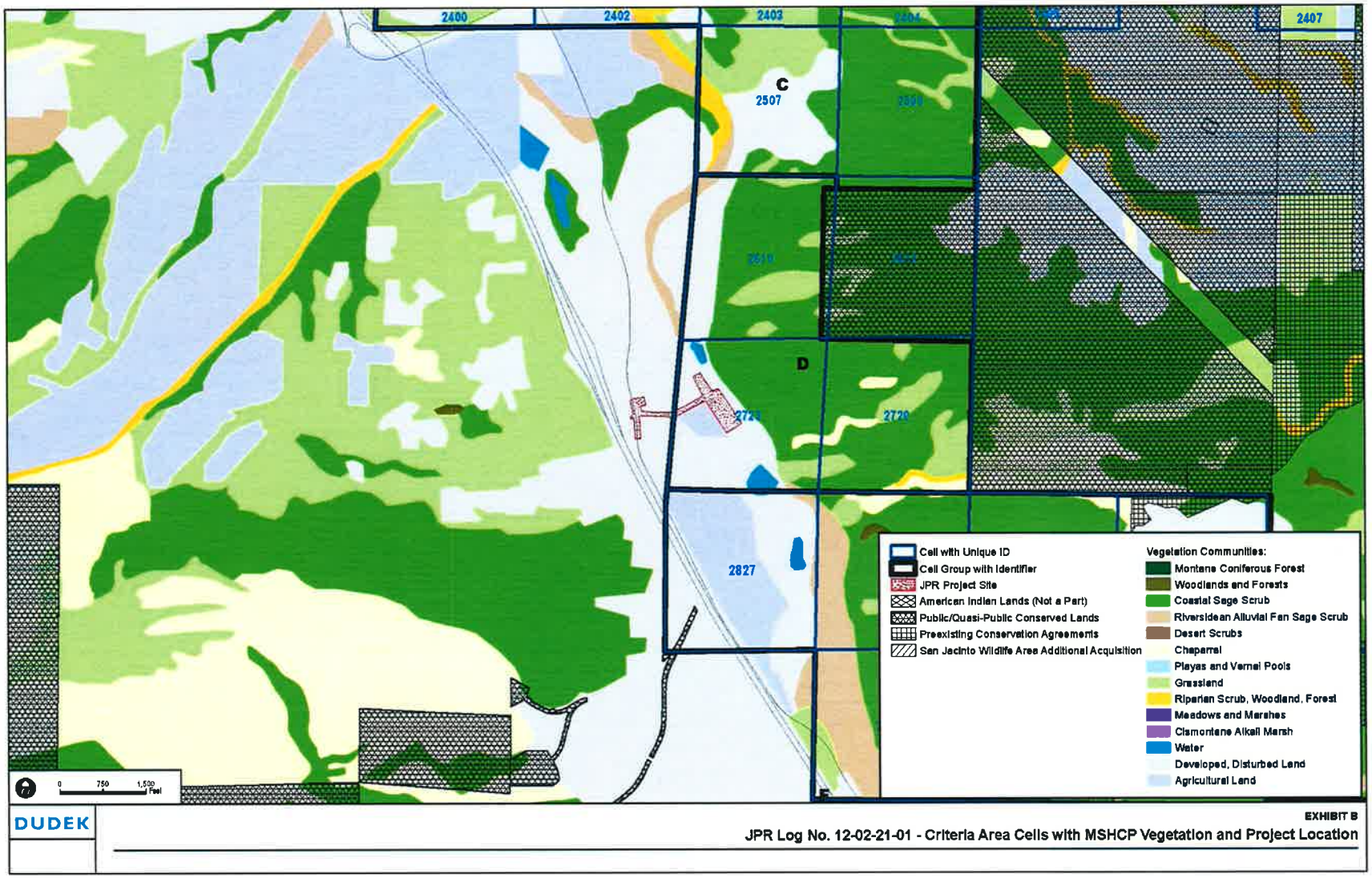
   v. Consider the invasive, non-native plant species listed in Table 6-2 of the MSHCP in approving landscape plans to avoid the use of invasive species for the portions of the project that are adjacent to the MSHCP Conservation Area. Considerations in reviewing the applicability of this list shall include proximity of planting areas to the MSHCP Conservation Areas, species considered in the planting plans, resources being protected within the MSHCP Conservation Area and their relative sensitivity to invasion, and barriers to plant and seed dispersal, such as walls, topography, and other features.

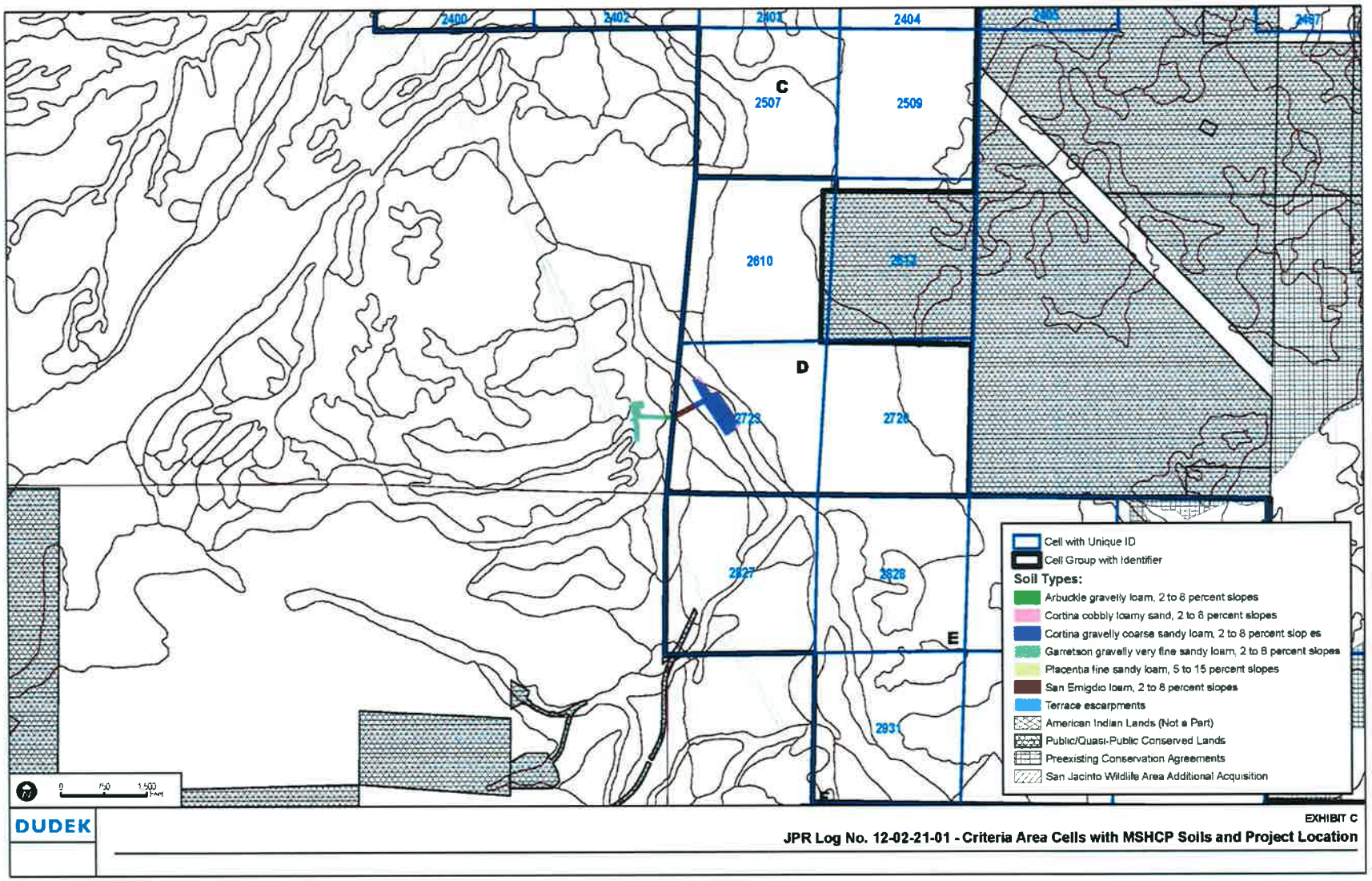
   vi. Proposed land uses adjacent to the MSHCP Conservation Area shall incorporate barriers, where appropriate, in individual project designs to minimize unauthorized public access, domestic animal predation, illegal trespass, or dumping into the MSHCP Conservation Areas. Such barriers may include native landscaping, rocks/boulders, fencing, walls, signage, and/or other appropriate mechanisms.

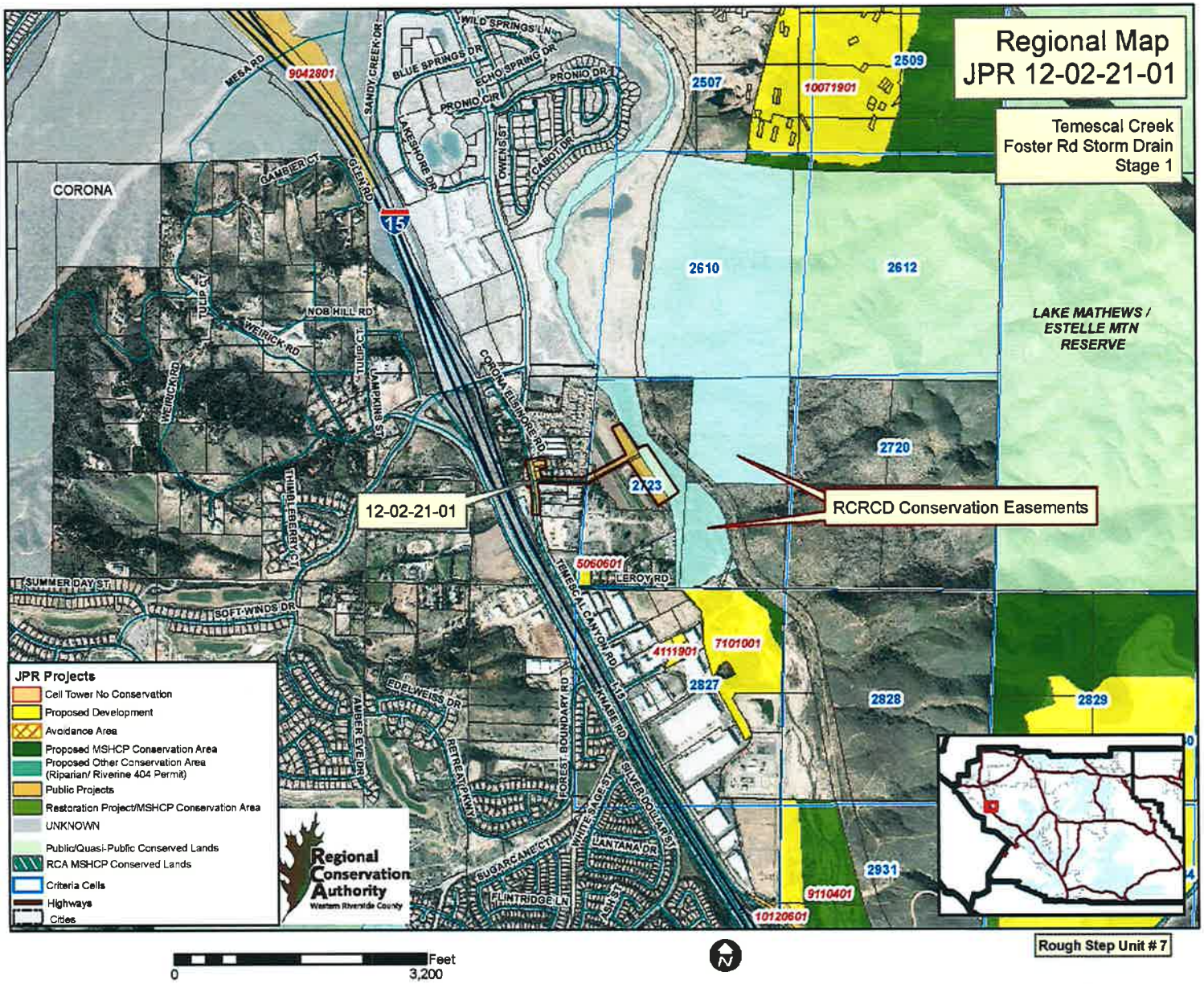
   vii. Manufactured slopes associated with the proposed site development shall not extend into the MSHCP Conservation Area.

SNS/ST


Proposed Linkages:
Constrained Linkage
Linkage
Existing Channel
Existing Cores & Linkages:
Constrained Linkage
Core
Linkage
Noncontiguous Habitat Block
Proposed Cores & Habitat Blocks:
Core
Proposed Extension of Existing Cores
Noncontiguous Habitat Block
JPR Log No. 12-02-21-01
0 2.5 5 Miles
DUDEK
EXHIBIT A
JPR Log No.12-02-21-01 - Vicinity Map with MSHCP Schematic Cores and Linkages


2400
2402
2403
2407
C
2507
D
2723
2720
2827
Cell with Unique ID
Cell Group with Identifier
JPR Project Site
American Indian Lands (Not a Part)
Public/Quasi-Public Conserved Lands
Preexisting Conservation Agreements
San Jacinto Wildlife Area Additional Acquisition
Vegetation Communities:
Montane Coniferous Forest
Woodlands and Forests
Coastal Sage Scrub
Riversidean Alluvial Fan Sage Scrub
Desert Scrubs
Chaparral
Playas and Vernal Pools
Grassland
Riparian Scrub, Woodland, Forest
Meadows and Marshes
Cismontane Alkali Marsh
Water
Developed, Disturbed Land
Agricultural Land
0
750
1,500
Feet
DUDEK
EXHIBIT B
JPR Log No. 12-02-21-01 - Criteria Area Cells with MSHCP Vegetation and Project Location


2400
2402
2401
2404
2405
2407
C
2507
2509
2610
2612
D
2723
2726
2827
2828
E
2831
Cell with Unique ID
Cell Group with Identifier
Soil Types:
Arbuckle gravelly loam, 2 to 8 percent slopes
Cortina cobbly loamy sand, 2 to 8 percent slopes
Cortina gravelly coarse sandy loam, 2 to 8 percent slop es
Garretson gravelly very fine sandy loam, 2 to 8 percent slopes
Placentia fine sandy loam, 5 to 15 percent slopes
San Emigdio loam, 2 to 8 percent slopes
Terrace escarpments
American Indian Lands (Not a Part)
Public/Quasi-Public Conserved Lands
Preexisting Conservation Agreements
San Jacinto Wildlife Area Additional Acquisition
0
750
1,500
Feet
DUDEK
EXHIBIT C
JPR Log No. 12-02-21-01 - Criteria Area Cells with MSHCP Soils and Project Location


Regional Map
JPR 12-02-21-01
Temescal Creek
Foster Rd Storm Drain
Stage 1
12-02-21-01
RCRCD Conservation Easements
CORONA
LAKE MATHEWS / ESTELLE MTN RESERVE
JPR Projects
Cell Tower No Conservation
Proposed Development
Avoidance Area
Proposed MSHCP Conservation Area
Proposed Other Conservation Area (Riparian/ Riverine 404 Permit)
Public Projects
Restoration Project/MSHCP Conservation Area
UNKNOWN
Public/Quasi-Public Conserved Lands
RCA MSHCP Conserved Lands
Criteria Cells
Highways
Cities
Regional Conservation Authority
Western Riverside County
0
3,200
Feet
Rough Step Unit # 7

Appendix D

Response to Comments

WARREN D. WILLIAMS
General Manager-Chief Engineer

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RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

December 23, 2013

Mr. Jeff Brandt
California Department of Fish and Wildlife
3602 Inland Empire Boulevard, Suite C-220
Ontario, California 91764

Dear Mr. Brandt:

Re: Temescal Creek - Foster Road Storm Drain, Stage 1 Project
Project No. 2-0-00493-01
State Clearinghouse No. 2013101086

Thank you for your November 26, 2013 letter (enclosed) commenting on the District's Temescal Creek - Foster Road Storm Drain, Stage 1 draft Initial Study/Mitigated Negative Declaration (IS/MND). The District has prepared this letter to address the environmental comments in your letter. Each lettered response below corresponds to the bracketed comments on the enclosed letter:

A As noted on Page 20 of the draft IS/MND, two least Bell's vireo territorial males were detected during focused surveys; however, southwestern willow flycatcher was not detected during focused surveys.

No new environmental issues have been raised by this comment and no modification of the IS/MND has been made.

B Comment noted. As noted on Page 21 of the IS/MND, a jurisdictional delineation was prepared for the project. The jurisdictional delineation will be submitted to the California Department of Fish and Wildlife (CDFW) with the notification of Lake or Streambed Alteration Agreement.

No new environmental issues have been raised by this comment and no modification of the IS/MND has been made.

C The project has been designed to avoid impacts to the maximum extent possible relative to the impacts associated with construction and long-term effects associated with maintenance. The structural portion of the project that would require routine maintenance has been designed so that it will be located upstream of the conservation easement. No routine maintenance is proposed in the conservation easement other than maintenance of the existing access road. Native riparian vegetation temporarily impacted by the project will be replaced and most of the areas consisting of existing access road, ruderal vegetation and disturbed land within the conservation easement that will be impacted by the project will be replaced by native riparian and native upland habitat. As a result, the project will result in a net gain of approximately 0.40 acre of native riparian habitat and approximately 0.08 acre of native upland habitat within the conservation easement. Creation of the new native riparian habitat and native upland habitat areas will be accomplished by excavating away from Temescal Creek to expand the bottom of the creek bed and thereby creating a "cove" area suitable for these habitats. The slopes within the conservation easement that will be impacted by the buried riprap are proposed to be planted with riversidean sage scrub, thereby making the impacts temporary. The District does not need to maintain the buried riprap unless it is damaged in a catastrophic flooding event. Under such emergency condition, efforts would be undertaken to restore the buried riprap to design lines and grades to maintain the structural integrity of the slope protection component of the project.

The District has coordinated the project design with the Riverside - Corona Resource Conservation District (RCRCD) to minimize impacts to the creek and maximize mitigation potential for the new outlet area. At this time, the District is working with RCRCD to place a conservation easement over a portion of the planned creation of native riparian habitat in the "cove" area to ensure perpetual protection. The addition of this conservation easement will increase the overall conservation easement area by approximately 0.13 acre. No maintenance for flood control purposes will be proposed within this new conservation easement area. The District is also currently working with the RCRCD for RCRCD to manage the habitat creation and restoration areas for the benefit of the sensitive resources in the project area.

No new environmental issues have been raised by this comment and no modification of the IS/MND has been made.

D Comment noted. The District is not proposing to eliminate ephemeral, intermittent or perennial streams, channels, lakes and their associated habitat as a result of this project. As described above in item "C", the District will restore and create habitat in the project area such that the post project condition will be equivalent or superior to the existing condition. The District will submit the Notification of Lake or Streambed Alteration along with all of the requested information soon.

No new environmental issues have been raised by this comment and no modification of the IS/MND has been made.

E Comment noted. The project is consistent with the MSHCP and Section 6.1.2 of the MSHCP as indicated on Page 23 of the draft IS/MND. Also, as noted in item "B" above, the District will submit the project jurisdictional delineation with the Notification of Lake or Streambed Alteration.

No new environmental issues have been raised by this comment and no modification of the IS/MND has been made.

F As noted in item "C" above, the District has coordinated the project design with the RCRCD to minimize impacts to the creek and maximize mitigation potential for the new outlet area. The project impacts cannot be located entirely outside the conservation easement; however, the project has been designed so that the structural portions of the storm drain which require routine maintenance will not be located within the conservation easement. The proposed project would not change the current land use and, as described in item "C" above, the project will result in a net gain of approximately 0.40 acre of native riparian habitat and approximately 0.08 acre of native upland habitat within the conservation easement as well as adding more land to the existing conservation easement. The District believes that project impacts to biological resources have been adequately addressed and mitigated in the IS/MND.

No new environmental issues have been raised by this comment and no modification of the IS/MND has been made.

G See items "C" and "F" above. The District believes that environmental impacts associated with the project have been adequately discussed and mitigated in the IS/MND. Through coordination with the RCRCD and project design, the District has made every effort to minimize impacts to the conservation easement and improve the area by creating sensitive habitat and adding area to the existing conservation easement.

No new environmental issues have been raised by this comment and no modification of the IS/MND has been made.

Re: Temescal Creek - Foster Road
Storm Drain, Stage 1 Project
Project No. 2-0-00493-01
State Clearinghouse No. 2013101086

The proposed project and Mitigated Negative Declaration are scheduled to be considered by the District's Board on January 14, 2014. Should you have any further questions, please call Jason Swenson at 951.955.8082 or me at 951.955.1233.

Very truly yours,

Mike M. Wong

MIKE WONG
Engineering Project Manager

Enclosure

ec: Stuart McKibbin
Jason Swenson

JDS:mcv
P8\157802

State of California – Natural Resources Agency
DEPARTMENT OF FISH AND WILDLIFE
Inland Deserts Region
3602 Inland Empire Blvd., Suite C-220
Ontario, CA 91764
(909) 484-0459
www.wildlife.ca.gov

EDMUND G. BROWN JR., Governor
CHARLTON H. BONHAM, Director

RECEIVED
DEC 0 2 2013
RIVERSIDE COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT

November 26, 2013

Mr. Mike Wong
Riverside County Flood Control
1995 Market Street
Riverside, CA 92501

Subject: Mitigated Negative Declaration for the Foster Road Storm Drain – Phase 1
County of Riverside, State Clearinghouse Number 2013101086

Dear Mr. Wong:

The Department of Fish and Wildlife (Department) appreciates the opportunity to comment on the Mitigated Negative Declaration (MND) for the Foster Road Storm Drain – Phase I Project (Project). The Department is responding to the MND as a Trustee Agency for fish and wildlife resources (California Fish and Game Code Sections 711.7 and 1802, and the California Environmental Quality Act [CEQA] Guidelines Section 15386), and as a Responsible Agency regarding any discretionary actions (CEQA Guidelines Section 15381), such as the issuance of a Lake or Streambed Alteration Agreement (California Fish and Game Code Sections 1600 *et seq.*) and/or a California Endangered Species Act (CESA) Permit for Incidental Take of Endangered, Threatened, and/or Candidate species (California Fish and Game Code Sections 2080 and 2080.1).

Project Description and Geographic Location

The project consists of tying into a culvert at Temescal Canyon Road, an underground 2,000-foot- long storm drain pipe from the Temescal Canyon Road culvert to just short of Temescal Creek, and an outlet structure that drains into Temescal Creek. The outlet structure begins in a vacant field, and includes a concrete, energy dissipater structure. The area at Temescal Creek will be widened as part of this Project and armored with buried rip-rap. A portion of the outlet is proposed to be located within a conservation easement and mitigation site held and actively managed by the Riverside-Corona Resource Conservation District. The Project is bounded by Dos Lagos Drive to the north, Temescal Wash to the east, Leroy Road to the south, and the Interstate 15 Freeway to the west.

Biological Resources and Impacts

A Focused surveys indicated the presence of endangered least Bell's vireo and threatened South-western willow flycatcher within the vicinity of the conservation easement and project area.

Lake and Streambed Alteration Program

B

The Department is responsible for assessing and evaluating impacts to jurisdictional waters; typically accomplished by reviewing JD reports, supporting information, and conducting site visits. Following review of a JD, the Department may request changes to it. The Department may also recommend that additional project avoidance and/or minimization measures be incorporated, or request additional mitigation for Project-related impacts to jurisdictional areas.

C

The CEQA document states that the project will impact 0.51 acres of Department jurisdictional waters (0.12 acres of permanent impact and 0.29 acres of temporary impact). The impacts associated with the construction and future maintenance requirements have likely been mis-categorized and underestimated. The Department has determined the proposed armor (buried rip-rap) is a permanent impact. The mitigation proposed is inadequate to offset the impacts to a conservation easement and mitigation site occupied by endangered species. From the project description and the space available in the vacant filed, the impacts to the conservation easement and future maintenance needs can be reasonably avoided. The Department recommends pulling the project back farther from the Creek, and constructing the energy dissipaters and outfall structures far enough away to allow for long term maintenance without impacting the conservation easement.

D

Because the project will discharge into the Creek and into a conservation area that also serves as a mitigation site the Department recommends submitting a Notification early in the Project planning process, since modification of the proposed project may be required to avoid or reduce impacts to fish and wildlife resources. To obtain a Lake or Streambed Alteration notification package, please go to http://www.dfg.ca.gov/habcon/1600/forms.html.

D

The Department opposes the elimination of ephemeral, intermittent, and perennial streams, channels, lakes, and their associated habitats. The Department recommends avoiding stream and riparian habitat to the greatest extent possible. Any unavoidable impacts need to be compensated with the creation and/or restoration of in-kind habitat either on-site or off-site at a minimum 3:1 replacement-to-impact ratio, depending on the impacts and proposed mitigation. Additional mitigation requirements through the Department's Lake and Streambed Alteration Agreement process may be required, depending on the quality of habitat impacted, proposed mitigation, project design, and other factors.

E

Although the proposed Project is within the MSHCP and could be subject to Section 6.1.2, Protection of Species Associated with Riparian/Riverine Areas and Vernal Pools, a Lake and Streambed Alteration Agreement Notification is still required by the Department. Additionally, the Department's criteria for determining the presence of jurisdictional waters are more comprehensive than the MSHCP criteria in Section 6.1.2. The Department requires a JD and the adequacy of the JD will be reviewed by the Department. Any mitigation measures required by the resource protection policies of the MSHCP should be included in the CEQA document.

D

The following information will be required for the processing of a Notification of Lake or Streambed Alteration Agreement and the Department recommends incorporating this information into the CEQA document to avoid subsequent documentation and project delays:

D

1) Delineation of lakes, streams, and associated habitat that will be temporarily and/or permanently impacted by the proposed project (include an estimate of impact to each habitat type);

2) Discussion of avoidance and minimization measures to reduce project impacts; and,

3) Discussion of potential mitigation measures required to reduce the project impacts to the conservation easement to a level of insignificance. Please refer to section 15370 of the CEQA Guidelines for the definition of mitigation.

F

If the project avoids direct impacts to the conservation easement, and documents the avoidance and mitigation measures in the CEQA document, the Department believes the preparation of an agreement should be relatively simple. If the project does not avoid the conservation easement, and the CEQA document fails to document adequate minimization and avoidance measures, the Department believes that it cannot fulfill its obligations as a Trustee and Responsible Agency for fish and wildlife resources. Permit negotiations conducted after and outside of the CEQA process are not CEQA-compliant because they deprive the public and agencies of their right to know what the Project impacts are and how they are being mitigated (CEQA Guidelines Section 15002).

Department Recommendations

G

The Department has the following concerns about the Project, and requests that these concerns be addressed in a subsequent CEQA document:

1. Either avoid the conservation easement and mitigation site area, or;
2. Develop a thorough analysis of the potential impacts on the conservation easement and mitigation site, including; an assessment of the likely and reasonably forseeable impacts associated with operating and maintaining the outfall structure; an assessment of the genesis of the conservation easement and the cumulative impacts to streams and habitat that created the easement and mitigation site; disclosure that the project will impact a conservation easement and mitigation site; and a mitigation proposal that fully mitigates the impacts to the conservation easement and mitigation site.

If you should have any questions pertaining to these comments, please contact Robin Maloney-Rames, Environmental Scientist at (909) 980-3818.

Sincerely,

Jeff Brandt
Senior Environmental Scientist

cc: State Clearinghouse, Sacramento

District Response to Soboba Band of Luiseno Indians Letter

The District received a CEQA comment letter for the Temescal Creek – Foster Road Storm Drain, Stage 1 Project on December 3, 2013 via email. Each lettered response below corresponds to the bracketed comments on the letter:

A: Comment Noted. No new environmental issues have been raised by this comment and no modification of the IS/MND has been made.

SOBOBA BAND OF LUISEÑO INDIANS
EST. JUNE 19, 1883

December 3, 2013

Attn: Mike Wong
Riverside County Flood Control and Water Conservation District
1995 Market Street
Riverside, CA 92501

Re: Temescal Creek- Foster Road Storm Drain, Stage 1 Project

A

The Soboba Band of Luiseño Indians received your Notice of Availability of the Initial Study and Intent to Adopt a Mitigated Negative Declaration for the Temescal Creek-Foster Road Storm Drain, Stage 1 Project. The Soboba Band appreciates your observance of Tribal Cultural Resources and their preservation in your project, and wishes to move forward with the project and the recommendations for Native American monitoring during the ground-disturbing activities. Soboba Band of Luiseño Indians requests that proper notification be given prior to any future surveys and ground disturbances so that a Native American Monitor from the Soboba Cultural Resource Department can be present during these proceedings. Attached is a copy of our standard monitoring agreement. Please review, print two copies, then sign and return to the Soboba Cultural Resources Department at your earliest convenience. If you have questions please do not hesitate to call me.

Sincerely,

Joseph Ontiveros, Director of Cultural Resources
Soboba Band of Luiseño Indians
P.O. Box 487
San Jacinto, CA 92581
Phone (951) 654-5544 ext. 4137
Cell (951) 663-5279
jontiveros@soboba-nsn.gov

WARREN D. WILLIAMS
General Manager-Chief Engineer

1995 MARKET STREET
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RIVERSIDE COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT

December 17, 2013

Mr. Glenn S. Robertson
Santa Ana Regional Water Quality Control Board
3737 Main Street, Suite 500
Riverside, CA 92501

Dear Mr. Robertson:

Re: Temescal Creek – Foster Road
Storm Drain, Stage 1 Project
Project No. 2-0-00493-01
State Clearinghouse No. 2013101086

Thank you for your December 9, 2013 email (enclosed) commenting on the District's Temescal Creek – Foster Road Storm Drain, Stage 1 draft Initial Study/Mitigated Negative Declaration (IS/MND). The District has prepared this letter to address the environmental comments in your email. Each lettered response below corresponds to the bracketed comments on your email.

A The CEQA comment period for the draft IS/MND ended on November 26, 2013. However, in an effort to address the environmental concerns in your email, the District is responding to your comments and will include them in the final IS/MND.

No new environmental issues have been raised by this comment and no modification of the IS/MND has been made.

B As noted on Page 21 of the IS/MND, a jurisdictional delineation was prepared for the project which indicates that construction of the project will impact U.S. Army Corps of Engineers (ACOE), Regional Water Quality Control Board (RWQCB) and California Department of Fish and Wildlife (CDFW) jurisdictional areas. In compliance with Section 404/401 of the Clean Water Act and Section 1602 of the California Fish and Game Code, necessary authorizations from the ACOE, RWQCB and CDFW will be obtained prior to construction.

No new environmental issues have been raised by this comment and no modification of the IS/MND has been made.

C The District is aware of the conservation easements in the project area and has consulted with the Riverside - Corona Resource Conservation District on the design of the outlet area. As noted on Page 32 of the IS/MND, the proposed project will collect and convey stormwater runoff through the project area and discharge it into same outlet destination, Temescal Creek. Therefore, the project will not substantially increase the volume to Temescal Creek. Also noted in the project description provided in the IS/MND, the concrete outlet structure is an impact type energy dissipater. This structure will utilize a concrete baffle to reduce flow velocity to prevent erosion within Temescal Creek.

In addition to the velocity dissipater, a gross pollutant removal system has been proposed at the storm drain outlet structure to treat nuisance surface runoff. This outlet structure would allow some infiltration of pollutants prior to flows reaching the conservation area. This structure will also allow the District to remove sediment/trash/debris prior to the flows reaching the conservation area.

No new environmental issues have been raised by this comment and no modification of the IS/MND has been made.

The proposed project and Mitigated Negative Declaration are scheduled to be considered by the District's Board on January 14, 2014. Should you have any further questions, please call Jason Swenson at 951.955.8082 or me at 951.955.1233.

Very truly yours,

Mike M. Wong

MIKE WONG
Engineering Project Manager

Enclosure

ec: Stuart McKibbin
Jason Swenson

JDS:mcv
P8\157675

Wong, Mike

From: Robertson, Glenn@Waterboards <Glenn.Robertson@waterboards.ca.gov>
Sent: Monday, December 09, 2013 7:10 PM
To: Wong, Mike
Cc: Adelson, Mark@Waterboards
Subject: Mit Neg Dec for Temescal Creek - Foster Road Storm Drain, Stage 1 Project

A Mike, this constitutes written comments to the Riverside County Flood Control and Water Conservation District regarding the Temescal Creek –Foster Road Storm Drain, Stage 1 Project. The proposed storm drain would be located parallel to Foster Road (N of Leroy Road and S of Dos Lagos Drive), draining Temescal Canyon Road to Temescal Creek.

B The proposed 30-70-inch Foster Road Storm Drain alignment appears, from the Public Notice Photo, to encroach into Temescal Creek. Please contact the U.S. Army Corps of Engineers to determine whether a Clean Water Action (CWA) Section 404 Permit will be necessary, and therefore, whether a prerequisite CWA Section 401 Water Quality Standards Certification will be required for impacts to waters of the U.S./State.

C Such impacts from this stormdrain may include hydromodification at the pipe's terminus, at the immediate streambed of Temescal Creek. Further, additional volume to Temescal Creek could contribute erosion to the Riverside County Resource Conservation District riparian restoration sites, located immediately downstream in Temescal Creek and adjacent to the Dos Lagos Golf Course (Conservation Easement created as a Corps requirement). Regional Board staff are not opposed to the Foster Road Stormdrain, but request Flood Control Staff to integrate energy dissipation measures and constraints on trash into the system.

Thank you for your consideration.

Glenn S. Robertson
Engineering Geologist, M.S., PG
Regional Planning Programs Section, CEQA Coordinator
Santa Ana Regional Water Quality Control Board
3737 Main Street, Suite 500
Riverside, CA 92501
Phone: 951-782-3259
Fax: 951-781-6288
Email: Glenn.Robertson@waterboards.ca.gov