



Western Riverside Council of Governments Technical Advisory Committee

AGENDA

**Thursday, July 16, 2020
9:30 a.m.**

**Western Riverside Council of Governments
3390 University Avenue, Suite 200
Riverside, CA 92501**

**WRCOG's OFFICE IS CURRENTLY CLOSED TO THE PUBLIC DUE TO COVID-19
AND STAFF ARE WORKING REMOTELY**

**Members of the public are encouraged to participate in this meeting via Zoom
(see meeting information below)**

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SPECIAL NOTICE – COVID-19 RELATED PROCEDURES IN EFFECT

Due to the state and local State of Emergency resulting from the threat of Novel Coronavirus (COVID-19), Governor Newsom has issued Executive Order N-29-20 (issued March 17, 2020) in which Section 3 supersedes Paragraph 11 of Executive Order N-25-20 (issued on March 12, 2020). This new order states that WRCOG does not need to make a physical location available for members of the public to observe a public meeting and offer public comment. The Order allows WRCOG to hold Committee meetings via teleconferencing and allows for members of the public to observe and address the meeting telephonically or electronically.

To follow the Order issued by the Governor, the Technical Advisory Committee meeting scheduled for Thursday, July 16, 2020 at 9:30 a.m. will be held via teleconference and any members of the public can attend electronically. Members of the public may send public comments by emailing snelson@wrcog.us, or calling (951) 405-6703 before or during the meeting, prior to the close of public comment.

Any member of the public requiring a reasonable accommodation to participate in this meeting in light of this announcement shall contact Suzy Nelson prior to 9:30 a.m. on July 14, 2020, at (951) 405-6703 or at snelson@wrcog.us.

The Technical Advisory Committee may take any action on any item listed on the agenda, regardless of the Requested Action.

1. CALL TO ORDER (Chris Lopez, Chair)

2. ROLL CALL

3. PUBLIC COMMENTS

At this time members of the public can address the Technical Advisory Committee regarding any items with the subject matter jurisdiction of the Committee that are not separately listed on this agenda. Members of the public will have an opportunity to speak on agenda items at the time the item is called for discussion. No action may be taken on items not listed on the agenda unless authorized by law. Whenever possible, lengthy testimony should be presented to the Committee in writing and only pertinent points presented orally.

4. SELECTION OF TECHNICAL ADVISORY COMMITTEE CHAIR, VICE-CHAIR, AND 2ND VICE-CHAIR FOR FISCAL YEAR 2020/2021 P. 1

Requested Action: 1. *Select Technical Advisory Committee Chair, Vice-Chair, and 2nd Vice-Chair positions for Fiscal Year 2020/2021.*

5. CONSENT CALENDAR

All items listed under the Consent Calendar are considered to be routine and may be enacted by one motion. Prior to the motion to consider any action by the Committee, any public comments on any of the Consent Items will be heard. There will be no separate action unless members of the Committee request specific items be removed from the Consent Calendar.

A. Summary Minutes from the May 21, 2020, Technical Advisory Committee Meeting are Available for Consideration. P. 3

Requested Action: 1. *Approve the Summary Minutes from the May 21, 2020, Technical Advisory Committee meeting.*

B. Finance Department Activities Update Andrew Ruiz, WRCOG P. 9

Requested Action: 1. *Receive and file.*

C. International City / County Management Association Activities Update AJ Wilson, ICMA P. 15

Requested Action: 1. *Receive and file.*

D. Single Signature Authority Report Andrew Ruiz, WRCOG P. 19

Requested Action: 1. *Receive and file.*

- E. **Approval of a Professional Services Agreement for the Analyses of the Smart Climate-Resilient Transportation Planning and Investments Project** *Elisa Laurel, WRCOG* **P. 21**

Requested Action: 1. *Recommend that the Executive Committee approve the Professional Services Agreement between Western Riverside Council of Governments and WSP USA, Inc., to provide technical services conducting risk assessments on vulnerable transportation assets in the Inland Empire region in an amount not to exceed \$379,175.47.*

- F. **Regional Streetlight Program Activities Update** *Daniel Soltero, WRCOG* **P. 51**

Requested Action: 1. *Receive and file.*

- G. **SCAG Connect SoCal Plan Update** *Chris Gray, WRCOG* **P. 53**

Requested Action: 1. *Receive and file.*

- H. **AB 3205 Regions Rise Grant Program Update** *Elisa Laurel, WRCOG* **P. 55**

Requested Action: 1. *Receive and file.*

6. **REPORTS / DISCUSSION**

- A. **Riverside County Economic Recovery Task Force Update** *Juan Perez, County of Riverside* **P. 57**

Requested Action: 1. *Receive and file.*

- B. **Report from the League of California Cities** *Erin Sasse, League of California Cities* **P. 59**

Requested Action: 1. *Receive and file.*

- C. **Public Service Fellowship Update** *Rachel Singer, WRCOG* **P. 61**

Requested Action: 1. *Receive and file.*

- D. **WRCOG Climate Adaptation Efforts** *Casey Dailey, WRCOG
Chris Gray, WRCOG* **P. 77**

Requested Action: 1. *Receive and file.*

- E. **Environmental Department Programs Activities Update** *Kyle Rodriguez, WRCOG* **P. 81**

Requested Action: 1. *Receive and file.*

7. **REPORT FROM THE EXECUTIVE DIRECTOR** *Rick Bishop*

8. ITEMS FOR FUTURE AGENDAS

Members

9. GENERAL ANNOUNCEMENTS

Members

Members are invited to announce items / activities which may be of general interest to the Technical Advisory Committee.

10. NEXT MEETING: The next Technical Advisory Committee meeting is scheduled for Thursday, August 20, 2020, at 9:30 a.m., via Zoom platform.

11. ADJOURNMENT



Western Riverside Council of Governments Technical Advisory Committee

Staff Report

Subject: Selection of Technical Advisory Committee Chair, Vice-Chair, and 2nd Vice-Chair for Fiscal Year 2020/2021

Contact: Rick Bishop, Executive Director, rbishop@wrcog.us, (951) 405-6701

Date: July 16, 2020

The purpose of this item is to select Technical Advisory Committee leadership positions for Fiscal Year 2020/2021.

Requested Action:

1. Select Technical Advisory Committee Chair, Vice-Chair, and 2nd Vice-Chair positions for Fiscal Year 2020/2021.

WRCOG's Committee leadership positions are selected at the start of each fiscal year. The leadership for the Executive Committee for Fiscal Year 2020/2021 is as follows:

Chair: Kevin Bash, City of Norco
Vice-Chair: Karen Spiegel, County of Riverside – District 2
2nd Vice-Chair: Crystal Ruiz, City of San Jacinto

Historically, the Technical Advisory Committee positions have coincided with those of the Executive Committee, although there are no requirements for this pattern stipulated in WRCOG's JPA or Bylaws.

Prior Action:

None.

Fiscal Impact:

This item is for informational purposes only; therefore, there is no fiscal impact.

Attachment:

None.

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1. CALL TO ORDER

The meeting of the Technical Advisory Committee was called to order at 9:31 a.m. by Chair Chris Lopez on the virtual platform, Zoom.

2. ROLL CALL

Members present:

Bonnie Johnson, City of Calimesa
Chris Mann, City of Canyon Lake
Bryan Jones, City of Eastvale
Chris Lopez, City of Hemet, Chair
Rod Butler, City of Jurupa Valley
Grant Yates, City of Lake Elsinore
Mike Lee, City of Moreno Valley
Kim Summers, City of Murrieta
Andy Okoro, City of Norco
Clara Miramontes, City of Perris
Rob Johnson, City of San Jacinto
Gary Nordquist, City of Wildomar
Danielle Coats, Eastern Municipal Water District
Mathew Evans, March Joint Powers Authority
Craig Miller, Western Municipal Water District (arrival 9:45 a.m.)

Staff present:

Steve DeBaun, Legal Counsel
Rick Bishop, Executive Director
Barbara Spoonhour, Deputy Executive Director - Operations
Andrew Ruiz, Chief Financial Officer
Casey Dailey, Director of Energy & Environmental Programs
Chris Gray, Director of Transportation & Planning
Princess Hester, RCHCA Director of Administration
Tyler Masters, Program Manager
Cameron Brown, Program Manager
Elisa Laurel, Program Manager
Don Ries, Program Manager
Janis Leonard, Administrative Services Manager
Anthony Segura, Senior Analyst
Kyle Rodriguez, Staff Analyst
Rachel Singer, Staff Analyst
Daniel Soltero, Staff Analyst
Suzy Nelson, Administrative Assistant

Guests present:

Erin Sasse, League of California Cities
A.J. Wilson, International City / County Management Association (ICMA)
Darci Kuenzi, County of Riverside Flood Control and Water Conservation District
Jeff Potts, City of Corona
Imelda Huerta, City of Menifee

3. PUBLIC COMMENTS

There were no public comments.

4. MINUTES (EMWD / Norco) 14 yes; 0 no; 0 abstain; Items 4.A through 4.F were approved. The Cities of Banning, Beaumont, Corona, Menifee, Riverside, and Temecula, the County of Riverside, WMWD and the Morongo Band of Mission Indians were not present.

A. Summary Minutes from the January 16, 2020, Technical Advisory Committee Meeting are Available for Consideration.

Action: 1. *Approved the Summary Minutes from the January 16, 2020, Technical Advisory Committee meeting.*

B. Finance Department Activities Update

Action: 1. *Received and filed.*

C. 3rd Quarter Draft Budget Amendment for Fiscal Year 2019/2020

Action: 1. *Recommended that the Executive Committee approve the 3rd Quarter Draft Budget Amendment for Fiscal Year 2019/2020.*

D. Regional Streetlight Program Activities Update

Action: 1. *Received and filed.*

E. Climate Resiliency Challenge Update

Action: 1. *Received and filed.*

F. International City / County Management Association Activities Update

Action: 1. *Received and filed.*

5. REPORTS / DISCUSSION

A. Report from the League of California Cities

Erin Sasse provided an update on current activities in the legislature. The State secured \$7 billion in direct and flexible funding to support local critical local services and secure CARES Act funding for all cities for expenditures related to COVID-19. The Federal Government secured \$500 billion in direct and flexible funding for all cities nationwide to support critical local services. The League is urging members to sign up for the Support Local Recovery Coalition.

The Governor's May revise allocates \$450 million of the State's CARES Act funding to cities for public health, public safety, and other services to address the COVID-19 pandemic.

Senate Bill (SB) 1431 (Glazer) Property Taxation, Reassessment, and Disaster Relief, would require county assessors to reassess certain types of properties based on their ability to generate income from

renters during the COVID-19 emergency due to eviction controls ordered statewide by the Governor's Executive Order. This measure would be retroactive to April 5, 2020. The League opposes this bill.

SB 795 (Beall) Affordable Housing and Community Development Investment Program, would invest \$2 billion annually for five years into the immediate construction of affordable housing units and programs that address and prevent homelessness. Additionally, this measure creates two new programs administered by the Office of Business and Economic Development Office (GoBiz) to help local governments with their economic recovery and natural disaster preparedness. The League supports this bill.

Action: 1. *Received and filed.*

B. Draft Fiscal Year 2020/2021 Agency Budget

Andrew Ruiz reported that it is too early to determine the impacts of COVID-19; therefore, staff have taken a conservative approach in preparing the budget. The overall budget will be cut by approximately 30% but will be continually updated throughout the development process.

The Administration Department generates its revenue from member dues, interest revenue, and overhead. Total Revenues and Transfers match Expenditures at \$2.9M.

The Transportation & Planning Department Revenues and Transfers match Expenditures and Transfers at \$34.2M.

The Energy Department Revenues and Transfers match Expenditures and Transfers at \$2.5M.

The Environmental Department Revenues and Transfers match Expenditures and Transfers at \$814k.

The Western Riverside Energy Partnership is evolving into a Regional Energy Network.

Western Community Energy (WCE) has launched and will be self-sustaining by the end of the fiscal year. Start-up costs loaned to WCE are anticipated to be recovered in Fiscal Year (FY) 2021/2022.

WRCOG set up three fiscal-related goals going into FY 2019/2020. The office relocation to the second floor will save the Agency approximately \$1M. Establishing a Section 115 Trust as a separate investment account will allow the Agency to contribute to the CalPERS Unfunded Accrued Liability (UAL). This will allow the Agency to make additional contributions to the UAL, in hopes to reduce the term to 15 years. The expansion of Commercial PACE (C-PACE) to additional providers to operate within the WRCOG statewide footprint will result in a significant increase in activity. C-PACE is becoming more attractive to new commercial construction, seismic, and strengthening attributes.

Overall, the Agency Revenues and Transfers in are projected to be \$40,442,624, and Expenditures and Transfers out are projected to be \$40,371,508. Staff have been working diligently on making sound judgement long-term financial decisions.

Action: 1. *Recommended that the Executive Committee approve the draft Fiscal Year 2020/2021 Agency Budget substantially as to form.*

(Lake Elsinore / Murrieta) 15 yes; 0 no; 0 abstain; Item 5.B was approved. The Cities of Banning, Beaumont, Corona, Menifee, Riverside, and Temecula, the County of Riverside, and the Morongo Band of Mission Indians were not present.

C. Future Forward Series Presentation: COVID-19 Fiscal Impacts Analysis

Teifion Rice-Evans provided a presentation on a recent analysis produced by Economic Planning Systems, Inc. (EPS) on the near-term fiscal impacts jurisdictions within Western Riverside County will be facing due to the current public health crisis. The assessment will be conducted in two phases. Phase 1 was completed and identified the expected level and timing of impacts of two tax revenues that will most directly be affected. According to the State of California Controller's Office, Sales and Use Tax will be the biggest hit revenue at immediate risk, coming in at 33% within WRCOG's subregion. Mr. Rice-Evans shared an overview of each jurisdiction and the possible impact within various job sectors. A majority of jobs in the retail sector show being at immediate risk.

Some fiscal vulnerability indicators focused on the General Fund revenues were Property Taxes and Property Taxes in-lieu of vehicle license fees, Sales and Use Taxes, Transient Occupancy and Lodging Taxes, Franchise Fees, User Utility, and Business Taxes.

Before September 30, 2020, Phase 2 will build on the Phase 1 work with feedback and will involve additional analysis, looking in more detail at a broader range of public revenues, the different ways in which they may be affected, and the implications for the Western Riverside County jurisdictions' overall fiscal health.

Action: 1. *Received and filed.*

D. Santa Ana Municipal Separate Storm Sewer System (MS4) Permit Compliance Program Update

Darcy Kuenzi presented a bi-annual update on the MS4 Permit compliance and other mandates for addressing stormwater management in the region.

The Santa Ana National Pollutant Discharge Elimination System (NPDES) Permit requires City Managers for the Cities of Beaumont, Calimesa, Canyon Lake, Corona, Eastvale, Hemet, Jurupa Valley, Lake Elsinore, Menifee, Moreno Valley, Norco, Perris, Riverside and San Jacinto, as well as the Riverside County Executive Officer, to meet at least two times annually to discuss the NPDES MS4 Permit Compliance Program.

As of now the Santa Ana and the Santa Margarita Regional MS4 Permits are still expired. Both Regional Board proceedings are set to renew in fall 2020.

The overall budget for Fiscal Year 2020/2021 for the Santa Margarita River is \$2,256,577 and \$3,017,440 for the Santa Ana River.

The biggest legislation impact that recently passed is Senate Bill (SB) 205 (Hertzberg) Business licenses: stormwater discharge compliance. As a means to control stormwater pollution, SB 205 will require applicable facilities to demonstrate enrollment with the industrial stormwater permit when applying for or renewing a business license.

Action: 1. *Received and filed.*

6. REPORT FROM THE EXECUTIVE DIRECTOR

Rick Bishop reported that WRCOG has created a weekly newsletter called "The Briefing," which includes status updates on programs within the Agency, as well as any COVID-19 updates. A monthly virtual webinar series on innovating through disruption called, "Future Forward," has launched. Staff hosted the first webinar on April 30, 2020 and is set for the next Future Forward webinar on Thursday, May 28, 2020.

7. ITEMS FOR FUTURE AGENDAS

There were no items for future agendas.

8. GENERAL ANNOUNCEMENTS

Committee member Grant Yates announced that a new Honda dealership opens in the City of Lake Elsinore this weekend.

9. NEXT MEETING

The Technical Advisory Committee is DARK in the month of June. The next Technical Advisory Committee meeting is scheduled for Thursday, July 16, 2020, at 9:30 a.m., via Zoom platform.

10. ADJOURNMENT

The meeting of the Technical Advisory Committee adjourned at 10:31 a.m.

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Western Riverside Council of Governments

Technical Advisory Committee

Staff Report

Subject: Finance Department Activities Update

Contact: Andrew Ruiz, Chief Financial Officer, aruiz@wrcoq.us, (951) 405-6740

Date: July 16, 2020

The purpose of this item is to provide an update on the Agency financials through May 2020.

Requested Action:

1. Receive and file.

Fiscal Year 2019/2020 Agency Audit

WRCOG's annual Agency audit started the week of June 15, 2020. WRCOG utilizes the services of the audit firm Rogers, Anderson, Malody, and Scott, LLC, (RAMS) to conduct its financial audit. The first visit is known as the "interim" audit; in July or August, RAMS will return to finish its second round, which is known as "fieldwork."

Financial Report Summary Through May 2020

The Agency Financial Report summary through May 2020, a monthly overview of WRCOG's financial statements in the form of combined Agency revenues and costs, is provided as Attachment 1.

Prior Action:

July 8, 2020: The Administration & Finance Committee received and filed.

Fiscal Impact:

This item is for informational purposes only; therefore, there is no fiscal impact.

Attachment:

1. Financial Report summary through May 2020.

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Item 5.B

Finance Department Activities
Update

Attachment 1

Financial Report summary through
May 2020

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Western Riverside Council of Governments
Monthly Budget to Actuals
For the Month Ending May 31, 2020

Description	Thru Actual 5/31/2020	Approved Budget 6/30/2020	Remaining Budget 6/30/2020
Member Dues	311,410	311,410	-
PACE Residential Revenue	408,236	892,500	484,264
Statewide HERO Revenue	401,753	570,000	168,247
Gas Co. Prtnrshp Revenue	50,941	108,400	57,459
SCE WRELP Revenue	48,361	54,219	5,858
PACE Commercial Sponsor Revenue	259,425	299,425	40,000
Commercial Recording Revenue	62,478	117,500	55,022
PACE Recording Revenue	79,017	111,800	32,783
CA HERO Recording fee Revenue	240,672	421,200	180,528
Regional Streetlights Revenue	457,343	187,511	(269,832)
Other Reimbursements	-	75,000	75,000
Solid Waste	112,970	107,313	(5,657)
Used Oil Grants	377,654	377,654	-
Air Quality	272,770	210,500	(62,270)
Adaptation Grant Revenue	85,394	125,000	39,606
EXPERIENCE Revenue	34,153	-	(34,153)
CAP Grant Revenue	430,530	125,000	(305,530)
LTF Revenue	800,250	800,250	-
RIVTAM	137,500	140,000	2,500
Other Misc Revenue	75,000	-	(75,000)
HERO Other Misc. Revenue	19,246	-	(19,246)
General Assembly Revenue	3,000	300,000	297,000
Commerical/Service - Admin	63,008	47,284	(15,724)
Commercial/Svcs	1,575,199	1,134,806	(440,392)
Retail - Admin	160,913	109,687	(51,226)
Retail	3,861,911	2,632,497	(1,229,414)
Industrial - Admin	262,434	502,285	239,851
Industrial	6,298,424	12,054,852	5,756,428
Residential/Multi/Single - Admin	785,103	1,121,669	336,566
Residential/Multi/Single	18,842,479	26,920,065	8,077,587
Multi-Family - Admin	268,403	199,074	(69,329)
Multi Family	6,441,677	4,777,779	(1,663,898)
Interest Revenue - Other	115,323	25,000	(90,323)
Fund Balance Carryover	870,000	870,000	-
Total Revenues	\$ 44,212,976	\$ 55,749,682	\$ 11,536,706

Expenses	Thru Actual 5/31/2020	Approved Budget 6/30/2020	Remaining Budget 6/30/2020
Salaries	1,849,660	1,956,067	106,407
Fringe Benefits	860,656	927,089	66,433
Overhead Allocation	1,772,964	1,893,320	120,356
General Legal Services	195,433	399,430	203,997
Audit Services	23,300	30,500	7,200
Bank Fees	(540)	40,150	40,690
Commissioners Per Diem	32,600	62,550	29,950
Parking Cost	-	10,000	10,000
Office Lease	309,877	465,000	155,123
WRCOG Auto Fuels Expenses	858	1,500	642
WRCOG Auto Maintenance Expense	-	500	500

Parking Validations	14,729	16,446	1,717
Staff Recognition	184	800	616
Coffee and Supplies	2,569	2,500	(69)
Event Support	136,679	183,798	47,119
Program/Office Supplies	16,041	22,263	6,222
Computer Supplies	6,325	5,381	(944)
Computer Software	57,525	26,500	(31,025)
Rent/Lease Equipment	15,968	30,000	14,032
Membership Dues	5,818	32,715	26,897
Subscriptions/Publications	2,439	3,225	786
Meeting Support Services	185	10,644	10,459
Postage	2,959	5,664	2,705
Other Expenses	807	1,250	443
COG HERO Share Expenses	2,323	10,000	7,677
Storage	4,528	10,000	5,472
Printing Services	7,869	7,500	(369)
Computer/Hardware	6,086	9,500	3,414
Misc. Office Equipment	-	1,000	1,000
Communications - Regular Phone	20,872	16,000	(4,872)
Communications - Cellular Phones	8,093	17,500	9,407
Communications - Computer Services	29,029	57,500	28,471
Communications - Web Site	5,650	8,000	2,350
Equipment Maintenance - General	4,822	10,000	5,178
Equipment Maintenance-Computer	13,212	21,250	8,038
Insurance - Gen/Busi Liab/Auto	91,240	104,000	12,760
WRCOG Auto Insurance	-	2,000	2,000
Recording Fee	120,847	260,741	139,894
Seminars/Conferences	2,906	11,905	8,999
General Assembly Expenses	107,207	300,000	192,793
Travel - Mileage Reimbursement	8,782	20,078	11,296
Travel - Ground Transportation	1,880	5,168	3,288
Travel - Airfare	5,556	12,250	6,694
Lodging	5,265	8,123	2,858
Meals	6,511	8,370	1,859
Other Incidentals	1,409	6,537	5,128
Training	4,895	9,250	4,355
OPEB Repayment	110,526	110,526	-
Supplies/Materials	32,439	21,800	(10,639)
Advertising Media - Newspaper Ad	1,020	10,000	8,980
Advertisement Radio & TV Ads	25,250	72,000	46,750
Staff Education Reimbursement	-	7,500	7,500
Consulting Labor	1,591,419	2,305,445	714,026
Computer Equipment/Software	-	3,000	3,000
Office Equipment Purchased	164,878	200,000	35,122
TUMF Project Reimb	22,466,087	45,000,000	22,533,913
	\$30,157,638	54,994,235	\$24,836,597



Western Riverside Council of Governments Technical Advisory Committee

Staff Report

Subject: International City / County Management Association Activities Update

Contact: AJ Wilson, California Senior Advisor, International City / County Management Association, ajwcm@aol.com, (760) 723-8623

Date: July 16, 2020

The purpose of this item is to provide an update of International City / County Management Association (ICMA) activities.

Requested Action:

1. Receive and file.

Annual Conference in Toronto is Converted to a Virtual Conference

Registration for the Virtual ICMA Annual Conference opened on July 6, 2020. You can participate in the virtual conference in September and receive the most economic advantage in July. Information on the event is below and details are provided on the ICMA website.

A Letter from ICMA Conference and Events Team

In light of the COVID-19 health crisis and in order to prioritize the well-being and safety of our members, exhibitors, sponsors, and partners, ICMA is making changes to the ICMA Annual Conference. Staff will not host an in-person experience. Instead, for the first-time ever, ICMA is launching a digital event that will take place September 23 - 26, 2020.

Over the past few months, we have watched the world around us rapidly change and witnessed local government leaders from around the globe work tirelessly to protect, support, and lead their communities through a series of crises. Now it is time to reboot, to be inspired again, and to connect. And it is more than just connecting; it is about coming together with your local government peers for a common purpose – to share your personal and professional experiences, to UNITE.

That has always been the magic of ICMA conferences – giving you the space to connect and learn from the people on the stage and in the audience. Just as we have always striven to be a world-class live event for local government professionals, we are ensuring that UNITE will be a world class digital event.

How can ICMA replicate an in-person interaction online and achieve that same special experience that you've come to know?

- Think a series of Facebook Live conversations leading up to September on hot topics in local government.
- Picture “live” keynotes and education sessions during the conference days and then having more than 100+ educational sessions available to view on-demand during the event and for 90+ days after the event.

- Imagine networking opportunities where you can chat with your fellow attendees in a post-session chat room, join in a happy hour where you can make your favorite beverage with a mixologist while networking with friends, or attend a concert featuring a celebrity artist!
- Envision a digital exhibit hall where you can view the best in innovative products, see live demonstrations, chat in real time, and schedule appointments.

It is a whole new world of possibilities.

ICMA's mission is to bring local government professionals together from around the globe to learn from each other and address the new realities of our communities. UNITE: A digital event which will go beyond the four days scheduled for the event. It will be a journey of the community coming together well before September arrives, being part of something bigger that is worth getting excited about, and continuing to stand together as a profession well after the event is over.

Will you join the largest gathering of local government professionals in the world?

This is UNITE. AN ICMA DIGITAL EVENT.

What You Can Expect



An all **new, and easy-to-use** online digital event platform.



Opportunities to **connect and network** with your local government peers, experts, partners, colleagues, and friends.



A **digital exhibit hall** and the ability to meet one-on-one with exhibitors.



Inspirational keynotes by leaders from the world stage.



Stories from your peers that will help support transformation in your organization and community.

Leading up to the official kick-off, there will be Facebook Live events, online resources, speaker interviews, engaging exhibitor and sponsor content, and more as we countdown to September. Stay tuned!

CAL-ICMA / CCMF Support for Manager's Families

There are obviously pressures on the families of city and county managers that are having effects during this crisis. In most cases managers have little time to give the attention that these issues may demand. And our families try very hard to handle their own “stuff” and not bring additional demands and pressures on the managers. To provide assistance for such personal support, CAL-ICMA and the California City Management Foundation (CCMF) have developed support resources. These efforts are being coordinated by the Senior Advisors in each area of the state. Mr. Wilson provides that role for Riverside County managers and their family members. If needed, please contact Mr. Wilson either on behalf of your family or have them contact him directly.

Senior Advisor Support

As your Senior Advisor, Mr. Wilson is available for personal discussions, resource identification, and general briefings for your employees who may be ICMA members or MMASC members. Please contact Mr. Wilson at (714) 323-9116 or ajwcm@aol.com.

Prior Action:

May 21, 2020: The Technical Advisory Committee received and filed.

Fiscal Impact:

This item is for informational purposes only; therefore, there is no fiscal impact.

Attachment:

None.

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Western Riverside Council of Governments

Technical Advisory Committee

Staff Report

Subject: Single Signature Authority Report

Contact: Andrew Ruiz, Chief Financial Officer, aruiz@wrcog.us, (951) 405-6741

Date: July 16, 2020

The purpose of this item is to notify the Committee of contracts recently signed under the Single Signature Authority of the Executive Director.

Requested Action:

1. Receive and file.

The Executive Director has Single Signature Authority for contracts up to \$100,000. For the months of April through June 2020 three contracts were signed by the Executive Director. These are summarized below.

1. In April 2020, a Professional Services Agreement (PSA) was executed with Economic Planning Systems, Inc. (EPS) for \$25,000, to conduct a fiscal impact assessment and analysis of COVID-19 for member jurisdictions.
2. In June 2020, a PSA Amendment was executed with Promeli Videoworks for \$52,265, to perform creative design and video production services for WRCOG.
3. In June 2020, a PSA was executed with SEI Consulting, LLC, for \$20,000, to conduct an update to the impacts of automation to the WRCOG subregion and its acceleration due to COVID-19.

Prior Action:

July 8, 2020: The Administration & Finance Committee received and filed.

Fiscal Impact:

This item is for informational purposes only; therefore, there is no fiscal impact.

Attachment:

None.

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Western Riverside Council of Governments Technical Advisory Committee

Staff Report

Subject: Approval of a Professional Services Agreement for the Analyses of the Smart Climate-Resilient Transportation Planning and Investments Project

Contact: Elisa Laurel, Program Manager, elaurel@wrcog.us, (951) 405-6705

Date: July 16, 2020

The purpose of this item is to present a Professional Services Agreement with WSP USA, Inc., which will be working on the Caltrans grant-funded Analyses for Smart Climate-Resilient Transportation Planning and Investments Project, and to request recommendation to the Executive Committee for approval thereof.

Requested Action:

1. Recommend that the Executive Committee approve the Professional Services Agreement between Western Riverside Council of Governments and WSP USA, Inc., to provide technical services conducting risk assessments on vulnerable transportation assets in the Inland Empire region in an amount not to exceed \$379,175.47.

Analyses for Smart Climate-Resilient Transportation Planning and Investments Project

In December 2018, WRCOG, in coordination with the San Bernardino County Transportation Commission (SBCTA), submitted an application to the Caltrans Adaptation Planning Grant Program, seeking funding for an Analyses for Smart Climate-Resilient Transportation Planning and Investments Project, to support regional efforts to conduct risk assessments on vulnerable transportation assets in the Inland Empire region. Caltrans awarded WRCOG and SBCTA a total of \$409,894 to develop these analyses. The Project will expand on the Regional Climate Adaptation Toolkit that was completed in February 2020 and funded through another grant from the Caltrans Adaptation Planning Grant Program.

The goal of the Toolkit was to assist local jurisdictions in developing climate adaptation and resiliency plans for transportation infrastructure and overall community resilience at the local level through the development the following:

- 1) Regional Climate Collaborative;
- 2) SBCTA Transportation and Community Vulnerability Assessment;
- 3) City-Level, Climate-Related, Transportation Hazards and Evacuation Maps;
- 4) Climate Resilient Transportation Infrastructure Guidebook; and
- 5) Regional Climate Adaptation & Resiliency Template.

This Project will expand and advance the pilot Toolkit by conducting risk assessments on a sample of vulnerable transportation assets that provide full asset value, including the needs of disadvantaged and/or vulnerable communities and transit dependent populations. The Project will continue engagement and collaboration of partnerships across state, regional, and local governments, and stakeholders. Critical partners will include transportation users who rely on an operating regional transportation network to gain access to businesses, hospitals, and shelters. The Analyses will research and develop adaptation strategies, with their associated costs, by projecting the cost of damages and repairs to various asset classes as well as the impact

of the assets' failure on the community. Furthermore, the project will incorporate co-benefits to public health, natural ecosystems, social equity, the economy, and greenhouse gas reduction. Ultimately the Analyses will provide local jurisdictions with concrete tools, methods, and resources for the region to incorporate asset risk into their planning processes for sound transportation project prioritization and investment.

Funding: Caltrans is providing \$409,894 of an estimated total project cost of \$463,000. The grant monies will cover all consultant expenses and a portion of WRCOG staff expenses. WRCOG will contribute \$53,106 through in-kind (staff time) services to meet a required local match of 11.47% of the project whole. Of the total budgeted amount, \$379,175.47 will be used for consultant expenses.

Schedule: The Project will commence immediately and, per the grant requirements, will conclude by the end of February 2022.

Prior Actions:

July 8, 2020: The Administration & Finance Committee recommended that the Executive Committee approve the Professional Services Agreement between Western Riverside Council of Governments and WSP USA, Inc., to provide technical services conducting risk assessments on vulnerable transportation assets in the Inland Empire region in an amount not to exceed \$379,175.47.

February 5, 2018: The Executive Committee Adopted Resolution Number 24-19; A Resolution of the Executive Committee of the Western Riverside Council of Governments authorizing the Executive Director to execute agreements with the California Department of Transportation for the Analyses for Smart Climate-Resilient Transportation Planning and Investments Project.

Fiscal Impact:

Expenditures for the Analyses for the Smart Climate-Resilient Transportation Planning and Investments Project are included in the Fiscal Year 2020/2021 Agency Budget under the Transportation Department.

Attachment:

1. Professional Services Agreement between the Western Riverside Council of Governments and WSP USA, Inc.

Item 5.E

Approval of a Professional Services Agreement for the Analyses of the Smart Climate-Resilient Transportation Planning and Investments Project

Attachment 1

Professional Services Agreement between the Western Riverside Council of Governments and WSP USA, Inc.

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WESTERN RIVERSIDE COUNCIL OF GOVERNMENTS PROFESSIONAL SERVICES AGREEMENT

1. PARTIES AND DATE.

This Agreement is made and entered into this ____ day of August, 2020, by and between the Western Riverside Council of Governments, a California public agency ("WRCOG") and WSP USA, Inc. ("Consultant"). WRCOG and Consultant are sometimes individually referred to as "Party" and collectively as "Parties."

2. RECITALS.

2.1 Consultant.

Consultant desires to perform and assume responsibility for the provision of certain professional services required by WRCOG on the terms and conditions set forth in this Agreement. Consultant represents that it is experienced in providing climate adaptation planning services, is licensed in the State of California, and is familiar with the plans of WRCOG.

2.2 Project.

WRCOG desires to engage Consultant to render such professional services for the Regional Climate Adaptation Toolkit for Transportation Infrastructure ("Project") as set forth in this Agreement.

3. TERMS.

3.1 Scope of Services and Term.

3.1.1 General Scope of Services. Consultant promises and agrees to furnish to WRCOG all labor, materials, tools, equipment, services, and incidental and customary work necessary to fully and adequately supply the climate adaptation planning services necessary for the Project ("Services"). The Services are more particularly described in Exhibit "A" attached hereto and incorporated herein by reference, and which are stated in the proposal to WRCOG and approved by WRCOG's Executive Committee. All Services shall be subject to, and performed in accordance with, this Agreement, the exhibits attached hereto and incorporated herein by reference, and all applicable local, state and federal laws, rules and regulations.

3.1.2 Term. The term of this Agreement shall be from August ____, 2020, to April 30, 2022, unless earlier terminated as provided herein. Consultant shall complete the Services within the term of this Agreement, and shall meet any other established schedules and deadlines.

3.2 Responsibilities of Consultant.

3.2.1 Control and Payment of Subordinates; Independent Contractor. The Services shall be performed by Consultant or under its supervision. Consultant will determine the means, methods and details of performing the Services subject to the requirements of this Agreement. WRCOG retains Consultant on an independent contractor basis and not as an employee. Consultant retains the right to perform similar or different services for others during the term of this Agreement. Any additional personnel performing the Services under this Agreement on behalf of Consultant shall also not be employees of WRCOG and shall at all times

be under Consultant's exclusive direction and control. Consultant shall pay all wages, salaries, and other amounts due such personnel in connection with their performance of Services under this Agreement and as required by law. Consultant shall be responsible for all reports and obligations respecting such additional personnel, including, but not limited to: social security taxes, income tax withholding, unemployment insurance, disability insurance, and workers' compensation insurance.

3.2.2 Schedule of Services. Consultant shall perform the Services expeditiously, within the term of this Agreement, and in accordance with the Schedule of Services set forth in Exhibit "B" attached hereto and incorporated herein by reference. Consultant represents that it has the professional and technical personnel required to perform the Services in conformance with such conditions. In order to facilitate Consultant's conformance with the Schedule, WRCOG shall respond to Consultant's submittals in a timely manner. Upon request of WRCOG, Consultant shall provide a more detailed schedule of anticipated performance to meet the Schedule of Services.

3.2.3 Conformance to Applicable Requirements. All work prepared by Consultant shall be subject to the approval of WRCOG.

3.2.4 Substitution of Key Personnel. Consultant has represented to WRCOG that certain key personnel will perform and coordinate the Services under this Agreement. Should one or more of such personnel become unavailable, Consultant may substitute other personnel of at least equal competence upon written approval of WRCOG. In the event that WRCOG and Consultant cannot agree as to the substitution of key personnel, WRCOG shall be entitled to terminate this Agreement for cause. As discussed below, any personnel who fail or refuse to perform the Services in a manner acceptable to WRCOG, or who are determined by the WRCOG to be uncooperative, incompetent, a threat to the adequate or timely completion of the Project or a threat to the safety of persons or property, shall be promptly removed from the Project by the Consultant at the request of the WRCOG. The key personnel for performance of this Agreement are as follows: **Michael Flood, WSP, Special Projects Lead and Tim Gross, WSP, Program Manager**

3.2.5 WRCOG's Representative. WRCOG hereby designates **Christopher Gray, Director of Transportation and Planning**, or his or her designee, to act as its representative for the performance of this Agreement ("WRCOG's Representative"). WRCOG's Representative shall have the power to act on behalf of WRCOG for all purposes under this Contract. Consultant shall not accept direction or orders from any person other than WRCOG's Representative or his or her designee.

3.2.6 Consultant's Representative. Consultant hereby designates **Jason Majzoub, Vice President, Senior Area Manager** or his or her designee, to act as its representative for the performance of this Agreement ("Consultant's Representative"). Consultant's Representative shall have full authority to represent and act on behalf of the Consultant for all purposes under this Agreement. The Consultant's Representative shall supervise and direct the Services, using his best skill and attention, and shall be responsible for all means, methods, techniques, sequences and procedures and for the satisfactory coordination of all portions of the Services under this Agreement.

3.2.7 Coordination of Services. Consultant agrees to work closely with WRCOG staff in the performance of Services and shall be available to WRCOG's staff, consultants and other staff at all reasonable times.

3.2.8 Standard of Care; Performance of Employees. Consultant shall perform all Services under this Agreement in a skillful and competent manner, consistent with the standards generally recognized as being employed by professionals in the same discipline in the State of California. Consultant represents and maintains that it is skilled in the professional calling necessary to perform the Services. Consultant warrants that all employees and subcontractors shall have sufficient skill and experience to perform the Services assigned to them. Finally, Consultant represents that it, its employees and subcontractors have all licenses, permits, qualifications and approvals of whatever nature that are legally required to perform the Services, and that such licenses and approvals shall be maintained throughout the term of this Agreement. As provided for in the indemnification provisions of this Agreement, Consultant shall perform, at its own cost and expense and without reimbursement from WRCOG, any services necessary to correct errors or omissions which are caused by the Consultant's failure to comply with the standard of care provided for herein. Any employee of the Consultant or its sub-consultants who is determined by WRCOG to be uncooperative, incompetent, a threat to the adequate or timely completion of the Project, a threat to the safety of persons or property, or any employee who fails or refuses to perform the Services in a manner acceptable to WRCOG, shall be promptly removed from the Project by the Consultant and shall not be re-employed to perform any of the Services or to work on the Project.

3.2.9 Laws and Regulations. Consultant shall keep itself fully informed of and in compliance with all local, state and federal laws, rules and regulations in any manner affecting the performance of the Project or the Services, including all Cal/OSHA requirements, and shall give all notices required by law. Consultant shall be liable for all violations of such laws and regulations in connection with Services. If the Consultant performs any work knowing it to be contrary to such laws, rules and regulations and without giving written notice to WRCOG, Consultant shall be solely responsible for all costs arising therefrom. Consultant shall defend, indemnify and hold WRCOG, its officials, directors, officers, employees and agents free and harmless, pursuant to the indemnification provisions of this Agreement, from any claim or liability arising out of any failure or alleged failure to comply with such laws, rules or regulations.

3.2.10 Insurance.

3.2.10.1 Time for Compliance. Consultant shall not commence the Services under this Agreement until it has provided evidence satisfactory to WRCOG that it has secured all insurance required under this section, in a form and with insurance companies acceptable to WRCOG. In addition, Consultant shall not allow any subcontractor to commence work on any subcontract until it has provided evidence satisfactory to WRCOG that the subcontractor has secured all insurance required under this section.

3.2.10.2 Minimum Requirements. Consultant shall, at its expense, procure and maintain for the duration of the Agreement insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the Agreement by the Consultant, its agents, representatives, employees or subcontractors. Consultant shall also require all of its subcontractors to procure and maintain the same insurance for the duration of the Agreement. Such insurance shall meet at least the following minimum levels of coverage:

(A) Minimum Scope of Insurance. Coverage shall be at least as broad as the latest version of the following: (1) *General Liability*: Insurance Services Office Commercial General Liability coverage (occurrence form CG 0001 or exact equivalent); (2) *Automobile Liability*: Insurance Services Office Business Auto Coverage (form CA 0001, code 1 (any auto) or exact equivalent); and (3) *Workers' Compensation and Employer's Liability*:

Workers' Compensation insurance as required by the State of California and Employer's Liability Insurance.

(B) Minimum Limits of Insurance. Consultant shall maintain limits no less than: (1) *General Liability*: \$1,000,000 per occurrence for bodily injury, personal injury and property damage. If Commercial General Liability Insurance or other form with general aggregate limit is used, either the general aggregate limit shall apply separately to this Agreement/location or the general aggregate limit shall be twice the required occurrence limit; (2) *Automobile Liability*: \$1,000,000 per accident for bodily injury and property damage; and (3) *Workers' Compensation and Employer's Liability*: Workers' Compensation limits as required by the Labor Code of the State of California. Employer's Liability limits of \$1,000,000 per accident for bodily injury or disease.

3.2.10.3 Professional Liability. Consultant shall procure and maintain, and require its sub-consultants to procure and maintain, for a period of five (5) years following completion of the Services, errors and omissions liability insurance appropriate to their profession. Such insurance shall be in an amount not less than \$2,000,000 per claim. This insurance shall be endorsed to include contractual liability applicable to this Agreement and shall be written on a policy form coverage specifically designed to protect against acts, errors or omissions of the Consultant. "Covered Professional Services" as designated in the policy must specifically include work performed under this Agreement.

3.2.10.4 Insurance Endorsements. The insurance policies shall contain the following provisions, or Consultant shall provide endorsements on forms supplied or approved by WRCOG to add the following provisions to the insurance policies:

(A) General Liability.

(i) Commercial General Liability Insurance must include coverage for (1) Bodily Injury and Property Damage; (2) Personal Injury/Advertising Injury; (3) Premises/Operations Liability; (4) Products/Completed Operations Liability; (5) Aggregate Limits that Apply per Project; (6) Explosion, Collapse and Underground (UCX) exclusion deleted; (7) Contractual Liability with respect to this Agreement; (8) Broad Form Property Damage; and (9) Independent Consultants Coverage.

(ii) The policy shall contain no endorsements or provisions limiting coverage for (1) contractual liability; (2) cross liability exclusion for claims or suits by one insured against another; or (3) contain any other exclusion contrary to the Agreement.

(iii) The policy shall give WRCOG, its directors, officials, officers, employees, and agents insured status using ISO endorsement forms 20 10 10 01 and 20 37 10 01, or endorsements providing the exact same coverage.

(iv) The additional insured coverage under the policy shall be "primary and non-contributory" and will not seek contribution from WRCOG's insurance or self-insurance and shall be at least as broad as CG 20 01 04 13, or endorsements providing the exact same coverage.

(B) Automobile Liability.

(i) The automobile liability policy shall be endorsed to state that: (1) WRCOG, its directors, officials, officers, employees, agents and volunteers shall be covered as additional insureds with respect to the ownership, operation, maintenance, use, loading or unloading of any auto owned, leased, hired or borrowed by the Consultant or for which the Consultant is responsible; and (2) the insurance coverage shall be primary insurance as respects WRCOG, its directors, officials, officers, employees, agents and volunteers, or if excess, shall stand in an unbroken chain of coverage excess of the Consultant's scheduled underlying coverage. Any insurance or self-insurance maintained by WRCOG, its directors, officials, officers, employees, agents and volunteers shall be excess of the Consultant's insurance and shall not be called upon to contribute with it in any way.

(C) Workers' Compensation and Employers Liability Coverage.

(i) Consultant certifies that he/she is aware of the provisions of Section 3700 of the California Labor Code which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and he/she will comply with such provisions before commencing work under this Agreement.

(ii) The insurer shall agree to waive all rights of subrogation against WRCOG, its directors, officials, officers, employees, agents and volunteers for losses paid under the terms of the insurance policy which arise from work performed by the Consultant.

(D) All Coverages.

(i) Defense costs shall be payable in addition to the limits set forth hereunder.

(ii) Requirements of specific coverage or limits contained in this section are not intended as a limitation on coverage, limits, or other requirement, or a waiver of any coverage normally provided by any insurance. It shall be a requirement under this Agreement that any available insurance proceeds broader than or in excess of the specified minimum insurance coverage requirements and/or limits set forth herein shall be available to WRCOG, its directors, officials, officers, employees and agents as additional insureds under said policies. Furthermore, the requirements for coverage and limits shall be (1) the minimum coverage and limits specified in this Agreement; or (2) the broader coverage and maximum limits of coverage of any Insurance policy or proceeds available to the named insured; whichever is greater.

(iii) The limits of insurance required in this Agreement may be satisfied by a combination of primary and umbrella or excess insurance. Any umbrella or excess insurance shall contain or be endorsed to contain a provision that such coverage shall also apply on a primary and non-contributory basis for the benefit of WRCOG (if agreed to in a written contract or agreement) before WRCOG's own insurance or self-insurance shall be called upon to protect it as a named insured. The umbrella/excess policy shall be provided on a "following form" basis with coverage at least as broad as provided on the underlying policy(ies).

(iv) Consultant shall provide WRCOG at least thirty (30) days prior written notice of cancellation of any policy required by this Agreement, except that the Consultant shall provide at least ten (10) days prior written notice of cancellation of any such

policy due to non-payment of premium. If any of the required coverage is cancelled or expires during the term of this Agreement, the Consultant shall deliver renewal certificate(s) including the General Liability Additional Insured Endorsement to WRCOG at least ten (10) days prior to the effective date of cancellation or expiration.

(v) The retroactive date (if any) of each policy is to be no later than the effective date of this Agreement. Consultant shall maintain such coverage continuously for a period of at least three years after the completion of the work under this Agreement. Consultant shall purchase a one (1) year extended reporting period A) if the retroactive date is advanced past the effective date of this Agreement; B) if the policy is cancelled or not renewed; or C) if the policy is replaced by another claims-made policy with a retroactive date subsequent to the effective date of this Agreement.

(vi) The foregoing requirements as to the types and limits of insurance coverage to be maintained by Consultant, and any approval of said insurance by WRCOG, is not intended to and shall not in any manner limit or qualify the liabilities and obligations otherwise assumed by the Consultant pursuant to this Agreement, including but not limited to, the provisions concerning indemnification.

(vii) If at any time during the life of the Agreement, any policy of insurance required under this Agreement does not comply with these specifications or is canceled and not replaced, WRCOG has the right but not the duty to obtain the insurance it deems necessary and any premium paid by WRCOG will be promptly reimbursed by Consultant or WRCOG will withhold amounts sufficient to pay premium from Consultant payments. In the alternative, WRCOG may cancel this Agreement. WRCOG may require the Consultant to provide complete copies of all insurance policies in effect for the duration of the Project.

(viii) Neither WRCOG nor any of its directors, officials, officers, employees or agents shall be personally responsible for any liability arising under or by virtue of this Agreement.

3.2.10.5 Separation of Insureds; No Special Limitations. All insurance required by this Section shall contain standard separation of insureds provisions. In addition, such insurance shall not contain any special limitations on the scope of protection afforded to WRCOG, its directors, officials, officers, employees, agents and volunteers.

3.2.10.6 Deductibles and Self-Insurance Retentions. Any deductibles or self-insured retentions must be declared to and approved by WRCOG. Consultant shall guarantee that, at the option of WRCOG, either: (1) the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects WRCOG, its directors, officials, officers, employees, agents and volunteers; or (2) the Consultant shall procure a bond guaranteeing payment of losses and related investigation costs, claims and administrative and defense expenses.

3.2.10.7 Acceptability of Insurers. Insurance is to be placed with insurers with a current A.M. Best's rating no less than A:VII, licensed to do business in California, and satisfactory to WRCOG.

3.2.10.8 Verification of Coverage. Consultant shall furnish WRCOG with original certificates of insurance and endorsements effecting coverage required by this Agreement on forms satisfactory to WRCOG. The certificates and endorsements for each insurance policy shall be signed by a person authorized by that insurer to bind coverage on its

behalf, and shall be on forms provided by WRCOG if requested. All certificates and endorsements must be received and approved by WRCOG before work commences. WRCOG reserves the right to require complete, certified copies of all required insurance policies, at any time.

3.2.10.9 Subconsultant Insurance Requirements. Consultant shall not allow any subcontractors or subconsultants to commence work on any subcontract until they have provided evidence satisfactory to WRCOG that they have secured all insurance required under this section. Policies of commercial general liability insurance provided by such subcontractors or subconsultants shall be endorsed to name WRCOG as an additional insured using ISO form CG 20 38 04 13 or an endorsement providing the exact same coverage. If requested by Consultant, WRCOG may approve different scopes or minimum limits of insurance for particular subcontractors or subconsultants.

3.2.11 Safety. Consultant shall execute and maintain its work so as to avoid injury or damage to any person or property. In carrying out its Services, the Consultant shall at all times be in compliance with all applicable local, state and federal laws, rules and regulations, and shall exercise all necessary precautions for the safety of employees appropriate to the nature of the work and the conditions under which the work is to be performed. Safety precautions as applicable shall include, but shall not be limited to: (A) adequate life protection and life-saving equipment and procedures; (B) instructions in accident prevention for all employees and subcontractors, such as safe walkways, scaffolds, fall protection ladders, bridges, gang planks, confined space procedures, trenching and shoring, equipment and other safety devices, equipment and wearing apparel as are necessary or lawfully required to prevent accidents or injuries; and (C) adequate facilities for the proper inspection and maintenance of all safety measures.

3.3 Fees and Payments.

3.3.1 Compensation. Consultant shall receive compensation, including authorized reimbursements, for all Services rendered under this Agreement at the rates set forth in Exhibit "C" attached hereto and incorporated herein by reference. The total compensation shall not exceed Three Hundred Seventy-Nine Thousand, One Hundred Seventy-Five Thousand Dollars and Forty-Seven Cents (**\$379,175.47**) without written approval of WRCOG's Executive Committee. Extra Work may be authorized, as described below; and if authorized, said Extra Work will be compensated at the rates and manner set forth in this Agreement

3.3.2 Payment of Compensation. Consultant shall submit to WRCOG a monthly itemized statement which indicates work completed and hours of Services rendered by Consultant. The statement shall describe the amount of Services and supplies provided since the initial commencement date, or since the start of the subsequent billing periods, as appropriate, through the date of the statement. WRCOG shall, within 45 days of receiving such statement, review the statement and pay all approved charges thereon.

3.3.3 Reimbursement for Expenses. Consultant shall not be reimbursed for any expenses unless authorized in writing by WRCOG.

3.3.4 Extra Work. At any time during the term of this Agreement, WRCOG may request that Consultant perform Extra Work. As used herein, "Extra Work" means any work which is determined by WRCOG to be necessary for the proper completion of the Project, but which the Parties did not reasonably anticipate would be necessary at the execution of this Agreement. Consultant shall not perform, nor be compensated for, Extra Work without written authorization from WRCOG's Representative.

3.3.5 Prevailing Wages. Consultant is aware of the requirements of California Labor Code Sections 1720, et seq., and 1770, et seq., as well as California Code of Regulations, Title 8, Section 16000, et seq., ("Prevailing Wage Laws"), which require the payment of prevailing wage rates and the performance of other requirements on certain "public works" and "maintenance" projects. If the Services are being performed as part of an applicable "public works" or "maintenance" project, as defined by the Prevailing Wage Laws, and if the total compensation is \$1,000 or more, Consultant agrees to fully comply with such Prevailing Wage Laws. WRCOG shall provide Consultant with a copy of the prevailing rates of per diem wages in effect at the commencement of this Agreement. Consultant shall make copies of the prevailing rates of per diem wages for each craft, classification or type of worker needed to execute the Services available to interested parties upon request, and shall post copies at the Consultant's principal place of business and at the project site. Consultant shall defend, indemnify and hold the WRCOG, its elected officials, officers, employees and agents free and harmless from any claims, liabilities, costs, penalties or interest arising out of any failure or alleged failure to comply with the Prevailing Wage Laws.

3.4 Accounting Records.

3.4.1 Maintenance and Inspection. Consultant shall maintain complete and accurate records with respect to all costs and expenses incurred under this Agreement. All such records shall be clearly identifiable. Consultant shall allow a representative of WRCOG during normal business hours to examine, audit, and make transcripts or copies of such records and any other documents created pursuant to this Agreement. Consultant shall allow inspection of all work, data, documents, proceedings, and activities related to the Agreement for a period of three (3) years from the date of final payment under this Agreement.

3.5 General Provisions.

3.5.1 Termination of Agreement.

3.5.1.1 Grounds for Termination. WRCOG may, by written notice to Consultant, terminate the whole or any part of this Agreement at any time and without cause by giving written notice to Consultant of such termination, and specifying the effective date thereof, at least seven (7) days before the effective date of such termination. Upon termination, Consultant shall be compensated only for those services which have been adequately rendered to WRCOG, and Consultant shall be entitled to no further compensation. Consultant may not terminate this Agreement except for cause.

3.5.1.2 Effect of Termination. If this Agreement is terminated as provided herein, WRCOG may require Consultant to provide all finished or unfinished Documents and Data and other information of any kind prepared by Consultant in connection with the performance of Services under this Agreement. Consultant shall be required to provide such documents and other information within fifteen (15) days of the request.

3.5.1.3 Additional Services. In the event this Agreement is terminated in whole or in part as provided herein, WRCOG may procure, upon such terms and in such manner as it may determine appropriate, services similar to those terminated.

3.5.2 Delivery of Notices. All notices permitted or required under this Agreement shall be given to the respective Parties at the following address, or at such other address as the respective parties may provide in writing for this purpose:

Consultant: WSP USA Inc.
862 E. Hospitality Lane, Suite 350
San Bernardino, CA 92408
Attn: Jason Majzoub

WRCOG: Western Riverside Council of Governments
3390 University Avenue, Suite 200
Riverside, CA 92501
Attn: Christopher Gray

Such notice shall be deemed made when personally delivered or when mailed, forty-eight (48) hours after deposit in the U.S. Mail, first class postage prepaid and addressed to the Party at its applicable address. Actual notice shall be deemed adequate notice on the date actual notice occurred, regardless of the method of service.

3.5.3 Ownership of Materials and Confidentiality.

3.5.3.1 Documents & Data; Licensing of Intellectual Property. This Agreement creates a non-exclusive and perpetual license for WRCOG to copy, use, modify, reuse, or sublicense any and all copyrights, designs, and other intellectual property embodied in plans, specifications, studies, drawings, estimates, and other documents or works of authorship fixed in any tangible medium of expression, including but not limited to, physical drawings or data magnetically or otherwise recorded on computer diskettes, which are prepared or caused to be prepared by Consultant under this Agreement ("Documents & Data"). Consultant shall require all subcontractors to agree in writing that WRCOG is granted a non-exclusive and perpetual license for any Documents & Data the subcontractor prepares under this Agreement. Consultant represents and warrants that Consultant has the legal right to license any and all Documents & Data. Consultant makes no such representation and warranty in regard to Documents & Data which were prepared by design professionals other than Consultant or provided to Consultant by WRCOG. WRCOG shall not be limited in any way in its use of the Documents & Data at any time, provided that any such use not within the purposes intended by this Agreement shall be at WRCOG's sole risk.

3.5.3.2 Intellectual Property. In addition, WRCOG shall have and retain all right, title and interest (including copyright, patent, trade secret and other proprietary rights) in all plans, specifications, studies, drawings, estimates, materials, data, computer programs or software and source code, enhancements, documents, and any and all works of authorship fixed in any tangible medium or expression, including but not limited to, physical drawings or other data magnetically or otherwise recorded on computer media ("Intellectual Property") prepared or developed by or on behalf of Consultant under this Agreement as well as any other such Intellectual Property prepared or developed by or on behalf of Consultant under this Agreement.

WRCOG shall have and retain all right, title and interest in Intellectual Property developed or modified under this Agreement whether or not paid for wholly or in part by WRCOG, whether or not developed in conjunction with Consultant, and whether or not developed by Consultant. Consultant will execute separate written assignments of any and all rights to the above referenced Intellectual Property upon request of WRCOG.

Consultant shall also be responsible to obtain in writing separate written assignments from any subcontractors or agents of Consultant of any and all right to the above referenced Intellectual Property. Should Consultant, either during or following termination of this

Agreement, desire to use any of the above-referenced Intellectual Property, it shall first obtain the written approval of the WRCOG.

All materials and documents which were developed or prepared by the Consultant for general use prior to the execution of this Agreement and which are not the copyright of any other party or publicly available and any other computer applications, shall continue to be the property of the Consultant. However, unless otherwise identified and stated prior to execution of this Agreement, Consultant represents and warrants that it has the right to grant the exclusive and perpetual license for all such Intellectual Property as provided herein.

WRCOG further is granted by Consultant a non-exclusive and perpetual license to copy, use, modify or sub-license any and all Intellectual Property otherwise owned by Consultant which is the basis or foundation for any derivative, collective, insurrectional, or supplemental work created under this Agreement.

3.5.3.3 Confidentiality. All ideas, memoranda, specifications, plans, procedures, drawings, descriptions, computer program data, input record data, written information, and other Documents and Data either created by or provided to Consultant in connection with the performance of this Agreement shall be held confidential by Consultant. Such materials shall not, without the prior written consent of WRCOG, be used by Consultant for any purposes other than the performance of the Services. Nor shall such materials be disclosed to any person or entity not connected with the performance of the Services or the Project. Nothing furnished to Consultant which is otherwise known to Consultant or is generally known, or has become known, to the related industry shall be deemed confidential. Consultant shall not use WRCOG's name or insignia, photographs of the Project, or any publicity pertaining to the Services or the Project in any magazine, trade paper, newspaper, television or radio production or other similar medium without the prior written consent of WRCOG.

3.5.3.4 Infringement Indemnification. Consultant shall defend, indemnify and hold WRCOG, its directors, officials, officers, employees, volunteers and agents free and harmless, pursuant to the indemnification provisions of this Agreement, for any alleged infringement of any patent, copyright, trade secret, trade name, trademark, or any other proprietary right of any person or entity in consequence of the use on the Project by WRCOG of the Documents & Data, including any method, process, product, or concept specified or depicted.

3.5.4 Cooperation; Further Acts. The Parties shall fully cooperate with one another, and shall take any additional acts or sign any additional documents as may be necessary, appropriate or convenient to attain the purposes of this Agreement.

3.5.5 Attorney's Fees. If either Party commences an action against the other Party, either legal, administrative or otherwise, arising out of or in connection with this Agreement, the prevailing party in such litigation shall be entitled to have and recover from the losing party reasonable attorney's fees and all other costs of such action.

3.5.6 Indemnification. Consultant shall defend, indemnify and hold the WRCOG, its officials, officers, consultants, employees, volunteers and agents free and harmless from any and all claims, demands, causes of action, costs, expenses, liability, loss, damage or injury, in law or equity, to property or persons, including wrongful death, in any manner arising out of or incident to any alleged acts, omissions or willful misconduct of Consultant, its officials, officers, employees, agents, consultants and contractors arising out of or in connection with the performance of the Services, the Project or this Agreement, including without limitation the payment of all consequential damages and attorney's fees and other related costs and expenses.

Consultant shall defend, at Consultant's own cost, expense and risk, any and all such aforesaid suits, actions or other legal proceedings of every kind that may be brought or instituted against WRCOG, its directors, officials, officers, consultants, employees, agents or volunteers. Consultant shall pay and satisfy any judgment, award or decree that may be rendered against WRCOG or its directors, officials, officers, consultants, employees, agents or volunteers, in any such suit, action or other legal proceeding. Consultant shall reimburse WRCOG and its directors, officials, officers, consultants, employees, agents and/or volunteers, for any and all legal expenses and costs, including reasonable attorney's fees, incurred by each of them in connection therewith or in enforcing the indemnity herein provided. Consultant's obligation to indemnify shall not be restricted to insurance proceeds, if any, received by WRCOG, its directors, officials, officers, consultants, employees, agents or volunteers. This section shall survive any expiration or termination of this Agreement. Notwithstanding the foregoing, to the extent Consultant's Services are subject to Civil Code Section 2782.8, the above indemnity shall be limited, to the extent required by Civil Code Section 2782.8, to claims that arise out of, pertain to, or relate to the negligence, recklessness, or willful misconduct of the Consultant.

3.5.7 Entire Agreement. This Agreement contains the entire Agreement of the Parties with respect to the subject matter hereof, and supersedes all prior negotiations, understandings or agreements. This Agreement may only be modified by a writing signed by both Parties.

3.5.8 Governing Law. This Agreement shall be governed by the laws of the State of California. Venue shall be in Riverside County.

3.5.9 Time of Essence. Time is of the essence for each and every provision of this Agreement.

3.5.10 WRCOG's Right to Employ Other Consultants. WRCOG reserves right to employ other consultants in connection with this Project.

3.5.11 Successors and Assigns. This Agreement shall be binding on the successors and assigns of the Parties.

3.5.12 Assignment or Transfer. Consultant shall not assign, hypothecate, or transfer, either directly or by operation of law, this Agreement or any interest herein without the prior written consent of WRCOG. Any attempt to do so shall be null and void, and any assignees, hypothecates or transferees shall acquire no right or interest by reason of such attempted assignment, hypothecation or transfer.

3.5.13 Construction; References; Captions. Since the Parties or their agents have participated fully in the preparation of this Agreement, the language of this Agreement shall be construed simply, according to its fair meaning, and not strictly for or against any Party. Any term referencing time, days or period for performance shall be deemed calendar days and not work days. All references to Consultant include all personnel, employees, agents, and subcontractors of Consultant, except as otherwise specified in this Agreement. All references to WRCOG include its elected officials, officers, employees, agents, and volunteers except as otherwise specified in this Agreement. The captions of the various articles and paragraphs are for convenience and ease of reference only, and do not define, limit, augment, or describe the scope, content, or intent of this Agreement.

3.5.14 Amendment; Modification. No supplement, modification, or amendment of this Agreement shall be binding unless executed in writing and signed by both Parties.

3.5.15 Waiver. No waiver of any default shall constitute a waiver of any other default or breach, whether of the same or other covenant or condition. No waiver, benefit, privilege, or service voluntarily given or performed by a Party shall give the other Party any contractual rights by custom, estoppel, or otherwise.

3.5.16 No Third-Party Beneficiaries. There are no intended third-party beneficiaries of any right or obligation assumed by the Parties.

3.5.17 Invalidity; Severability. If any portion of this Agreement is declared invalid, illegal, or otherwise unenforceable by a court of competent jurisdiction, the remaining provisions shall continue in full force and effect.

3.5.18 Prohibited Interests. Consultant maintains and warrants that it has not employed nor retained any company or person, other than a bona fide employee working solely for Consultant, to solicit or secure this Agreement. Further, Consultant warrants that it has not paid nor has it agreed to pay any company or person, other than a bona fide employee working solely for Consultant, any fee, commission, percentage, brokerage fee, gift or other consideration contingent upon or resulting from the award or making of this Agreement. For breach or violation of this warranty, WRCOG shall have the right to rescind this Agreement without liability. For the term of this Agreement, no member, officer or employee of WRCOG, during the term of his or her service with WRCOG, shall have any direct interest in this Agreement, or obtain any present or anticipated material benefit arising therefrom.

3.5.19 Equal Opportunity Employment. Consultant represents that it is an equal opportunity employer and it shall not discriminate against any subcontractor, employee or applicant for employment because of race, religion, color, national origin, handicap, ancestry, sex or age. Such non-discrimination shall include, but not be limited to, all activities related to initial employment, upgrading, demotion, transfer, recruitment or recruitment advertising, layoff or termination. Consultant shall also comply with all relevant provisions of any WRCOG's Minority Business Enterprise program, Affirmative Action Plan or other related programs or guidelines currently in effect or hereinafter enacted.

3.5.20 Labor Certification. By its signature hereunder, Consultant certifies that it is aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for Workers' Compensation or to undertake self-insurance in accordance with the provisions of that Code, and agrees to comply with such provisions before commencing the performance of the Services.

3.5.21 Authority to Enter Agreement. Consultant has all requisite power and authority to conduct its business and to execute, deliver, and perform the Agreement. Each Party warrants that the individuals who have signed this Agreement have the legal power, right, and authority to make this Agreement and bind each respective Party.

3.5.22 Counterparts. This Agreement may be signed in counterparts, each of which shall constitute an original.

3.6 Subcontracting.

3.6.1 Prior Approval Required. Consultant shall not subcontract any portion of the work required by this Agreement, except as expressly stated herein, without prior written approval of WRCOG. Subcontracts, if any, shall contain a provision making them subject to all provisions stipulated in this Agreement.

[SIGNATURES ON FOLLOWING PAGE]

**SIGNATURE PAGE
TO
WESTERN RIVERSIDE COUNCIL OF GOVERNMENTS
PROFESSIONAL SERVICES AGREEMENT**

IN WITNESS WHEREOF, the Parties hereby have made and executed this Agreement as of the date first written above.

WESTERN RIVERSIDE COUNCIL
OF GOVERNMENTS

WSP USA, Inc.

By: _____
Rick Bishop
Executive Director

By: _____
Jason Majzoub
Vice President

APPROVED AS TO FORM:

By: _____
General Counsel
Best Best & Krieger, LLP

EXHIBIT “A” SCOPE OF SERVICES

SCOPE OF WORK FOR WRCOG/SBCTA ANALYSIS FOR SMART CLIMATE-RESILIENT TRANSPORTATION PLANNING AND INVESTMENTS

Introduction

The WRCOG/SBCTA region faces increasing risks of extreme heat, drought, wildfire, flash flooding and slope failure. The region’s transportation system is directly affected by these climate hazards while at the same time must serve as a crucial source of the resilience that is so urgently needed in protecting lives and property as well as the infrastructure itself. This project, Analyses for Smart Climate-Resilient Transportation Planning and Investments can help WRCOG, SBCTA, and the region’s local transportation agencies take full advantage of these opportunities. Doing so involves several technical aspects:

- ✓ Lifecycle cost accounting for the impacts of climate change over the course of an asset’s useful life, as required by Executive Order B-30-15
- ✓ More thorough evaluation of how asset closure affects its passenger and freight users, as well as entire communities, including disadvantaged populations, dependent on transportation facilities and services for access and mobility. Scenario-based analysis to help agencies understand which investments make the most sense uncertain potential futures
- ✓ Ability to demonstrate life-cycle cost-effectiveness of adaptation measures, through metrics such as Net Present Value, which can be used in funding applications

These aspects are not addressed in traditional planning and design practices, and so a risk-based approach to asset-level adaptation is required. The challenge is to transform planning and design practices, as well as operational elements, including transit operations and emergency response such that climate-related risk management is embedded in these activities and becomes the norm.

This project will include close coordination with WRCOG, SBCTA, and local agencies to understand their current practices and help them implement risk-based adaptation strategies. While innovative approaches such as this require some training, it will allow WRCOG/SBCTA to get ahead of the curve, positioning it for future federal as well as state funding. WSP will serve as a resource to the two agencies on this effort through this work program. The work effort will be initiated to complete the tasks as noted below noting the need for coordination to determine the final actions undertaken for each task, with the level of effort for each determined by the budget totals noted.

TASK 1. PROJECT INITIATION

Per the RFP, WRCOG and SBCTA have responsibility for the deliverables Task 1. The WSP Team will initiate the project with a kickoff meeting with WRCOG, SBCTA, and Caltrans. During this kickoff meeting, the team will review the scope, schedule, and budget and clarify the project approach as needed. Here a plan for quality assurance will be discussed, as well as a plan to address project risks and mitigations.

TASK 2. COLLABORATE AND ENGAGE THE COMMUNITY

This Task is intended to draw from the institutional knowledge and data available from across the region, to streamline the work effort and ground truth results. Collaboration and engagement with community members, local agency staff, and key stakeholders across the region will be important to ensuring a successful project. Engaging local agency staff and community stakeholders throughout the project will help to identify key issues and critical assets, confirm results,

identify strategies, and to provide guidance on reduction of climate risks to the regional transportation system and communities.

TASK 2.1. INTERVIEW CITY STAFF

Staff will be on the frontline of implementation and our experience has shown that effective implementation occurs when staff responsible have participated in the process. The team will reach out to city planners and public work officials early in the project for guidance and feedback on asset data and vulnerabilities in the region. PlaceWorks led engagement with local agency staff, primarily relying on webinars to share information, answer questions, and receive comments. We anticipate a mix of virtual and in person discussions. In-person discussions would likely occur through established meetings of WRCOG/SBCTA.

TASK 2.2. INLAND EMPIRE REGIONAL CLIMATE COLLABORATIVE AND ADVISORY COMMITTEE MEMBERS

This subtask will be led by WRCOG/SBCTA staff and will not involve the consultant team. The objective of this subtask will be to review and expand members of the Inland Empire Regional Climate Collaborative (IERCC) and Advisory Committee (AC) to support WRCOG and SBCTA in providing guidance and feedback on the project. This information will be provided to the WSP team to incorporate into project materials, as needed.

TASK 2.3. FORM AND CONDUCT A PUBLIC OUTREACH PLAN

As part of project initiation, the team will initiate a discussion with WRCOG/SBCTA staff to review public engagement opportunities, identify key stakeholders and opportunities for engagement, and establish goals and objectives for the engagement process. We will review the successes, challenges, and other considerations from past projects and similar efforts in the region. We will prepare a Public Outreach Plan that incorporates this information, reflecting our team's lessons learned and best practices in the region. The Public Outreach Plan will include the following sections:

- ✓ The purpose and desired outcomes for public outreach throughout the planning process
- ✓ A list of stakeholders and outreach and engagement opportunities for stakeholder types
- ✓ A list of potential co-sponsors and co-promoters to assist with outreach. The WSP Team will collaborate with WRCOG/SBCTA staff to identify community-based partners to support outreach events as co-sponsors and/or co-promoters to increase and tailor public outreach and engagement
- ✓ Public information items, including the project timeline, a process chart showing the relationship of outreach activities to the deliverables and similar materials
- ✓ Protocol for documenting engagement activities and sharing the results
- ✓ A protocol and schedule for communication and marketing. The marketing schedule will identify timing for release, distribution, and placement of publicity items
- ✓ A description of public outreach activities
- ✓ A schedule of outreach activities, including the responsible team members, the location, the format, and the needs for each event

The WSP Team (led by Placeworks) will develop a public outreach plan that draws from input from the Inland Empire Regional Climate Collaborative and Advisory Committee AC meetings, the best methods developed in Cycle 1, and the WSP Team's experience designing and implementing community outreach activities throughout the region. The outreach plan will include strategies to support the project team with identification of assets for the analysis, inform methods, identify and prioritize potential adaptation strategies, and to share and receive feedback on the overall findings of the risk-based assessment. This plan will be developed recognizing WRCOG/SBCTA's goal to emphasize outreach to low-income, disadvantaged residents through locally trusted institutions including churches, health centers, schools, and other community-based organizations and through existing partnerships with representative agencies in disadvantaged and under resourced communities.

The final work plan for this task will be determined through agency coordination and will be linked to available project resources to complete this work effort. The approaches recommended will be those most responsive to the desired outcomes. Any workshops to be held will have content determined through the project planning process.

TASK 2.4. LOCAL AGENCY SUPPORT/ADDITIONAL OUTREACH

The WSP Team will coordinate with WRCOG/SBCTA to identify key points in the process that would benefit from local agency support and additional outreach and initiate the coordination effort. The WSP Team will use techniques proven to be successful in Cycle 1 and Subtask 2.1 to complete this work.

Responsible Party: WRCOG, SBCTA, Consultant Team

Deliverables

- 1** Proposed questions/approach to guide discussions with local agency staff and summary of staff feedback/responses as applicable (2.1)
- 2** Public Outreach Plan, Outreach Materials, Workshop Materials and Summaries, Staffing Support for up to three workshops or equivalent events (2.3)
- 3** Copies of Additional Outreach Results (2.4)

TASK 3. IDENTIFY MOST CRITICAL ASSETS AND DEVELOP CLIMATE STRESSORS

TASK 3.1. DEVELOP AN ASSET CLASS TYPOLOGY

Drawing upon existing studies and data, as well as applicable best practices from other areas, WSP will work with WRCOG and SBCTA to define the major transportation asset classes of the region that are relevant to this study. Candidate asset classes include bridges, culverts, roadways, transit stops, airports, rail lines, stations and yards, freight facilities, and transportation maintenance facilities as well as operations centers. Developing asset class groupings enables transferability of results between assets within a given asset class. We will focus on asset classes where spatial data (e.g., GIS layers) are readily available.

As part of this step, we will also define the major climate hazard types facing each of these asset classes. These might include wildfire, flooding, extreme heat, drought, and slope failure (e.g., landslides, debris flow, erosion). Establishing these asset class hazard combinations will help organize the subsequent analyses. This will be done through conversations with WRCOG and SBCTA staff and will also rely on our relevant experience and existing literature.

TASK 3.2. DETERMINE A REPRESENTATIVE ASSET SAMPLE FOR EVALUATIONS

In coordination with WRCOG, SBCTA, and through Task 2 engagement with city staff, WSP will identify a representative sample of assets for detailed evaluation. This assessment will draw upon initial conversations with these staff members, the findings of the Regional Climate Adaptation Toolkit effort, and a review of articles and documentation of past events into brief case studies. With this information, the team will propose a set of candidate assets. Then, the potential projects will be screened based on a set of criteria, narrowing this list into the final set of assets to be evaluated. These criteria could include:

- ✓ Distribution of assets across the asset classes and hazards to be assessed (flooding, landslide, pavement design, heat/health, wildfire, etc.)
- ✓ Distribution of assets between Riverside and San Bernardino Counties
- ✓ Intensity of use (e.g., travel volume)
- ✓ Intensity of use by disadvantaged communities
- ✓ Strategic importance to regional economy (e.g., heavy freight use)
- ✓ Some evidence of past or expected physical risk to the asset due to climate-related hazards
- ✓ Data availability
- ✓ Agency staff and stakeholder insights
- ✓ Available project resources

After developing the criteria and gaining concurrence from the WRCOG and SBCTA team, WSP will assess the candidate assets against the criteria. A draft list of proposed assets will be submitted to WRCOG and SBCTA for review. This list will include documentation of the process used for selection. Upon review, the list will be revised as needed and resubmitted for final approval, outlining the projects to be advanced. Given project needs can vary depending on assessment type, the final selected list to advance will be for those that can be completed within the identified task budget.

TASK 3.3. DEVELOP CLIMATE SCENARIOS FOR EACH SELECTED ASSET

WSP will define the climate scenarios and process the applicable climate projections for each of the assets, delivered as a set of region-wide metrics applicable to all project of this type in the region. Assessing climate change at the asset level is a challenging and fast-evolving practice for several reasons. There is uncertainty in the climate models and emissions scenarios they use. There is additional uncertainty introduced during the post-processing of results into inputs usable for design. Furthermore, the climate conditions change over time, resulting in varying probabilities of extreme events over a transportation asset's lifecycle.

To address the challenges, we will use several approaches:

- ✓ Quantify uncertainty in projections by using confidence intervals
- ✓ Use multiple climate scenarios to help account for other sources of uncertainty (including multiple emissions scenarios and climate models)
- ✓ Use a lifecycle cost analysis to account for changing probabilities over time
- ✓ Leverage the most recent, state-of-the-art techniques for climate data processing.

For each asset class, we will identify the climate-related metrics required for the design and management of the asset. This effort will build upon the work we did in the Cycle 1 Pilots.

As part of this task, we will also define the climate models and emissions scenarios to be used, aiming for consistency across the different assets in the region. We will also define analysis timeframes, which will likely vary by asset class based on expected asset life.

After defining all necessary parameters, we will obtain the relevant data inputs and process it into the climate projections needed for the analysis. We will thoroughly document the projections and provide them to SBCTA and WRCOG.

Deliverables

- 1 Typology of Asset Classes in the Region
- 2 Documentation Describing Methodology, Data Sources, and Assets Chosen for Study
- 3 Documentation that Links Sample Assets to Asset Class Typology
- 4 Documentation Describing Climate Stressors, Data Sources, and Climate Scenarios Developed for Study

TASK 4. ASSET ASSESSMENT UNDER ASSET FAILURE SCENARIOS WITH AND WITHOUT ADAPTATION STRATEGIES

TASK 4.1. DEVELOP ASSET FAILURE SCENARIOS

Assessing how a climate hazard can affect an asset and how it can cause it to fail is a central element of understanding climate risk. For each asset class identified, and in consultation with Caltrans and local engineers, WSP will develop asset scenarios in the form of stressor costs functions. A stressor cost functions specifies how different magnitudes of a hazard (e.g., a flood elevation or heat wave duration) are likely to impact the asset. They typically include both a damage estimate (provided in dollars) and a disruption estimate (provided in either dollars, or hours or days of closure).

The table below shows an example of a stressor cost function (sometimes referred to as a depth damage function or a fragility curve). These functions are not part of traditional design and require a shift in mindset away from the single design criterion approach⁵ that applies to most of the transportation assets in the region, state, and across the U.S. These functions are developed through an internal workshop with our hazard. After we develop these draft failure scenarios for asset classes, we will work with engineers in the region from local agencies and Caltrans to ground truth and refine them.

OPTION #1 | DEPTH DAMAGE FUNCTION

Flood Elevation (Feet)	Physical Damage & Repair Cost	Socioeconomic Costs			Property	Total Cost	% Damage	Notes
		Detour		Injury				
		Days in Effect	Cost					
605	\$0	0	\$0	0	\$0	\$0	0%	
614	\$0	0	\$0	\$0	\$0	\$0	0%	
615	\$30,000	0	\$0	\$0	\$0	\$30,000	8%	Embankment erosion starts
616	\$30,000	0	\$0	\$0	\$0	\$30,000	8%	
617	\$40,000	0	\$0	\$0	\$0	\$40,000	10%	
618	\$50,000	0	\$0	\$0	\$0	\$50,000	13%	
619	\$70,000	0	\$0	\$0	\$0	\$70,000	18%	
620	\$80,000	0	\$0	\$0	\$0	\$80,000	20%	
621	\$100,000	0	\$0	\$0	\$0	\$100,000	25%	
622	\$130,000	0	\$0	\$0	\$0	\$130,000	33%	
623	\$160,000	0	\$0	\$0	\$0	\$160,000	40%	
624	\$200,000	0	\$0	\$0	\$0	\$200,000	50%	
625	\$250,000	1	\$140,000	\$0	\$0	\$390,000	98%	Overtopping
626	\$320,000	5	\$700,000	\$80,000	\$0	\$1,100,000	275%	
627	\$400,000	15	\$2,100,000	\$80,000	\$0	\$2,580,000	645%	

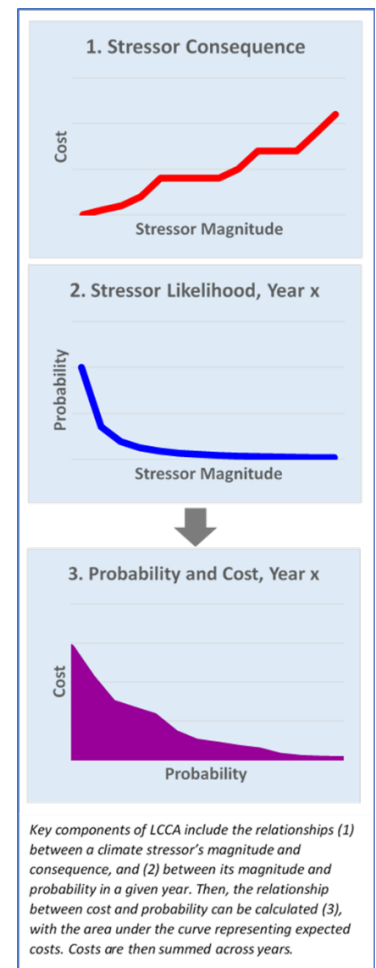
TASK 4.2. CONDUCT RISK-BASED ASSET ASSESSMENT

For Task 4.2, we will evaluate the performance of each asset through a quantitative risk assessment. Using the ADAP process described earlier, we will tie together the information developed on climate hazards at the site (3.2), asset failure (4.1), and socioeconomic impacts (5) into a risk profile that can be refined in later phases. The result will be a set of expected lifecycle costs for each asset under the different climate scenarios.

Depending on the type of asset, assessing performance may require additional analysis during this task. For example, a bridge or culvert susceptible to flooding would require additional hydrologic and hydraulic analysis of the watershed near the facility to understand the probability of the impacts. (The impacts themselves will have been developed as part of the stressor cost functions in 4.1). The result of this additional analysis will be stressor likelihood information for each year for the different climate scenarios. This effort will involve developing representative values for assets as conducting detailed assessments would extend beyond the resources of this project.

To the extent practicable, we will incorporate expected socioeconomic costs (developed in Task 5) into the lifecycle cost assessment. Some of the socioeconomic costs will be more straightforward to monetize (e.g., system wide hours of delay associated with an asset being closed for a specified time period). Others will be harder to quantify (e.g., effects of travel delay on wages earned by low, middle and high-income individuals). We will likely treat some of the harder-to-quantify impacts qualitatively, and propose methods by which prioritization could take place to incorporate both quantitative and qualitative measures.

Once we have the overall stressor-cost function and stressor likelihood functions for each year and climate scenario, we can calculate the expected cost for each year and climate scenario. The figure at right shows the basic steps of this process. Afterwards, costs can be summed across years to obtain expected lifecycle costs. Finally, a discount rate or set of discount rates can be applied, and results can be summarized as present value measures.



The analysis process and tools (including the spreadsheet deliverable) developed on the pilot risk assessment gives the WSP Team a head start on this subtask. This means more of the effort for this task can be toward developing a more comprehensive, rigorous analysis. As we did for the pilots, we will use a Monte Carlo simulation to generate confidence intervals for the lifecycle costs. The present discounted costs for the assets can be compared to those developed for the potential adaptation options (4.3) to help evaluate those options.

TASK 4.3. DEVELOP AND ANALYZE ADAPTATION STRATEGIES

For each asset facing significant climate-related risks, we will develop a set of candidate adaptation strategies to mitigate the identified risks. This will draw directly the WRCOG/SBTA Resilient Transportation Infrastructure Guidebook that was developed and other resources to generate a set of potential strategies and parameterized costs for implementation.

This effort will develop capital and O&M cost estimates for the identified strategies and will develop stressor cost functions for each strategy. These stressor cost functions will allow the generation of an estimate on how these investments would reduce the expected damage costs and disruption outage periods at each asset.

Where feasible, we will then repeat the assessment described in Task 4.5 to establish expected lifecycle costs to the asset under the different adaptation options and climate scenarios. For each asset, the result will be a set of present discounted lifecycle costs for each action alternative (including no-action and adaptation options) and climate scenario. Statistical analysis will be completed to identify the value that is most cost effective when comparing each strategy.

In addition to the lifecycle cost analysis, this effort will look to evaluate the adaptation strategies qualitatively. The qualitative assessment will likely include a consideration of different adaptation co-benefits, such as regional goods movement, social equity, stormwater management, or greenhouse gas mitigation. In some cases, where co-benefits can be readily monetized, they will be incorporated into the lifecycle cost assessment.

The final measures will combine both the quantitative and qualitative portions of the assessment into a prioritization framework that will recommend the highest priority adaptation options for each asset and across assets. One of the major advantages of the risk-based assessment is that by monetizing lifecycle costs, it enables easier comparison of action alternatives.

Deliverables

- 1 Documentation of Asset Failure Scenarios
- 2 Documentation of Methodology, Data Sources, and Findings of Risk-Based Asset Assessment
- 3 Documentation of Adaptation Strategies and Effectiveness in Failure Reduction

TASK 5. ASSESS SOCIOECONOMIC COSTS AND CONSEQUENCES RELATED TO ASSET FAILURE

TASK 5.1. DEVELOP SOCIOECONOMIC METRICS

The impacts on regional travelers of system impacts is a critical measure toward determining risk consequences at a broader systems level. Consequences will be critical to determine for economic drivers, regional residents and for low-moderate income residents for whom proportional costs of travel impacts may be more pressing.

Traveler impacts due to outage/closure are recognized as more impactful on people with low/moderate incomes because:

- ✓ Jobs for hourly work (shipping/logistics centers, manufacturing, retail/restaurant work, etc.) require the worker's presence on-site – there is limited/no flexibility of work location. Loss of access due to system outages (highway and/or transit) translates to loss of wages
- ✓ System closures impose additional travel costs (detours, etc.) on the user and/or require alternative modes of travel that impose additional travel time/cost penalties

- ✓ Available wages/income are typically more limited and therefore any increase due to transportation costs often impose inordinate financial strain

The WSP Team will work with WRCOG/SBCTA to define a set of socioeconomic metrics to be used in the assessment that reflect these concerns. These metrics can be used to characterize how asset closure or disruption affects the broader transportation system and users. The counties’ travel demand models (San Bernardino Transportation Analysis Model [SBTAM] and Riverside Transportation Analysis Model [RIVTAM]) will be analyzed for their capacity to report metrics specific to this measure. The development of these metrics will also utilize the outcomes of the community engagement task to ensure that the process is capturing impacts on disadvantaged populations as much as possible. A discussion of these potential metrics (at a non- technical level) will be included in that dialogue to ensure the metrics are the most appropriate to reflect traveler impacts.

The team will work to develop a process within the model framework that reports on system disruption metrics in a way that generates quantified, and comparable, system impact measures with the intent of turning over to WRCOG staff at the completion of this effort a process/tool that enables local staff to derive these measures for agency stakeholders. The final outcome of this effort will be determined by: dialogue with WRCOG staff, model compatibility, and the resources allocated to this task.

TASK 5.2. PERFORM SOCIOECONOMIC ASSESMENT

Metrics will be developed as input to the risk-based assessment in 4.2 and 4.3, identifying the metrics specified in 5.1. The monetizable metrics will be incorporated into the assessment as lifecycle costs, expressed in \$/hour or \$/day. The stressor cost table developed in Task 4.1 defines the disruption durations corresponding to the different magnitudes of a stressor. These disruption lengths can be multiplied by the \$/hour or \$/day values to compute total \$ of delay for each stressor magnitude (e.g., a flood elevation X’ is associated with \$Y of delay). The non-monetizable socioeconomic impacts will be incorporated into the qualitative elements of the risk-based assessment, identifying the appropriate metrics that are beneficial to determining traveler impacts and are most telling in identifying how best to report these as a part of project assessments. With this holistic assessment method, net benefits of the adaptation options and the overall prioritization of action alternatives can be modified to incorporate the finalized socioeconomic impacts.

Establishing an efficient/automated process for running the travel demand model to establish socioeconomic metrics will be an important part of this task. Thus, this capability could be offered to local agencies to conduct risk-based assessments, saving on staff time and funding required to deliver services to member agencies.

Deliverables

- 1 Documentation of Socioeconomic Metrics and Data Sources
- 2 Documentation of Methodology and Findings of Socioeconomic Impacts and Full Costs under Each Asset Failure Scenario

TASK 6. RESOURCE GUIDE

TASK 6.1. PRODUCE RESOURCE GUIDE

Drawing upon the work performed and deliverables produced in Tasks 3, 4 and 5 for life-cycle risk-based analyses for representative assets, and including examples for representative projects, WSP will document the steps of the climate risk assessment for the different asset and hazard types and prepare a resource guide for local and regional transportation practitioners. The guide will enable practitioners to conduct their own risk assessments, including the associated planning, cost-benefit, prioritization and socio-economic impact activities included in the overall process.

The guide will be a step-by-step set of instructions with clear descriptions and rationale for each step, with the steps correspond to the FHWA ADAP process. Where applicable, graphics will be used to help describe and document the

process for use. A draft guide will be prepared and routed to stakeholders for review and comments received will be addressed in the final guide.

Deliverables

1 Resource Guide

TASK 7. MAP FINDINGS TO ASSET CLASS TYPOLOGY

TASK 7.1. DOCUMENT FINDINGS AND APPLICATION TO ASSET CLASSES

In Task 7, findings and techniques from the individual asset assessments will be identified and applied to their overarching asset classes. While each asset is unique and therefore each asset-level assessment is unique, there are transferable techniques that can apply to overall asset class. For instance, provided enough data exists, culverts can often be treated programmatically – i.e., lifecycle costs can be estimated for each culvert as part of one assessment. WSP will document these techniques and lessons for each of the asset classes. After review, this documentation will be incorporated into the Resource Guide developed in Task 6.

Deliverables

1 Documentation of Mapping the Findings to the Asset Class Typology

TASK 8. CONSTRUCT A PLAN FOR INTEGRATING ANALYSIS INTO INFORMED DECISIONS

TASK 8.1. PRODUCE A ROADMAP OF ENTRY POINTS INTO EXISTING TRANSPORTATION PLANNING VEHICLES

WSP will work with WRCOG, SBCTA, and other local agencies to identify existing transportation planning vehicles that would benefit from the climate risk assessments. These could include project prioritization, project financing, design practices, maintenance planning, asset management, and other activities. Based upon this assessment, WSP will then build a roadmap of potential actions that these agencies can use to incorporate the risk assessments and improve the resiliency of their transportation systems. Lessons from stakeholders and the result of national research will be used to develop a roadmap for the Inland Empire region.

TASK 8.2. DEVELOP MEASURES TO JUSTIFY EXPENSES AND SUPPORT PROJECT PRIORITIZATION

WSP will provide recommendations on how practitioners can leverage these techniques to help prioritize and fund their projects at the local, state, and regional level. WSP's project finance team will lead this task to provide guidance on funding competitiveness. The final results of this effort will be incorporated into the Resource Guide developed in Task 6.

Deliverables

- 1** Roadmap for Identifying Entry Points to Incorporate Task 5
- 2** White Paper of Recommended Methods for Translating Task 5 Findings into Broader Regional Transportation Costs to Justify Adaptation Strategies and Project Prioritization

TASK 9. DEVELOP BASIC TOOLS FOR COMMUNITY USE

TASK 9.1. IDENTIFY AND BUILD BASIC TOOLS AND RESOURCES APPLICABLE ACROSS THE COMMUNITY

Throughout the project, tools and resources will be generated that that could be useful to local practitioners. Throughout the project, WSP will work with WRCOG and SBCTA to refine this set of potential tools and determine which tool(s) to develop as part of Task 9. Potential resources developed might include:

- ✓ An Excel spreadsheet that walks the user through the steps of the risk assessment process, from data input to lifecycle cost assessment. Through our work on the pilot assessments for SBCTA and on other analyses, we have already developed the basic elements of this tool and could add a user-friendly interface
- ✓ Asset-level climate projections processing tools for common data challenges, such as estimating future changes

- ✓ in peak flows or precipitation depth duration frequency curves
- ✓ Webinars and workshops for practitioners in addition to activities associated with Task 2
- ✓ During Task 5.2, create a travel demand model post-processing tool that can be used to calculate socioeconomic metrics without requiring modeling staff to run the model manually
- ✓ Web-based GIS platform showcasing analysis and findings. Our proposed technical staff work regularly with our internal software development team and can efficiently produce web-based tools to meet user needs
- ✓ A grant application assistance tool for resilience-related projects
- ✓ A project screening tool. The Phase I work effort utilized a range of available spatial/asset data to generate the initial scoring of assessments which incorporated broader system vulnerability measures. There is interest at WRCOG/SBCTA in advancing the use of this data resource to determine potential projects that may need to be advanced to a more detailed risk assessment. This option would involve analyzing the data generated for regional assets and determining a methodology that enables an assessment of physical risk concerns. This could be applied to projects moving forward as funded or programmed to be funded through the development fee program to ensure those projects are incorporating risk concerns as a part of their implementation.

We will work with WRCOG and SBCTA to scope out tool(s) and estimate timing and level of effort. We will work collaboratively to test and refine the tool(s) and provide thorough documentation for future users. The documentation can be included in the final version of the Resource Guide developed in Task 6.

Deliverables

1 Basic Tool(s) with User Guide(s) and Resources for Local Stakeholders

TASK 10. DESIGN PROJECT COORDINATION

The intent of this task is to engage an ongoing local planning/design project with opportunities for integrating resilience considerations. The selected project should have the following key elements:

- ✓ A management/oversight team (agency and consultants) that is willing to participate on this exercise
- ✓ A location where environmental conditions may increase risks, from precipitation or temperature effects
- ✓ A location where system impacts would be expected to be important, to the regional economy, to travelers, and/or to low/moderate income residents from the region who may be disproportionately impacted
- ✓ A location identified in previous documents as an asset of concern (if possible)

WSP will engage with the planning/engineering team providing services in order to understand the project context and design. We anticipate this coordination would occur through several phone interviews and potentially an in-person meeting with project staff (budget permitting).

WSP will work with the team to learn about potential climate-related risks and, during the conversations, provide recommendations on methods and actions to address these risks. These recommendations could cover topics such as:

- ✓ Guidance on the needs/requirements of the risk-assessment methodology
- ✓ Guidance on what downscaled climate data to use for the project
- ✓ Guidance on how to develop stressor-damage assumptions built into the design options
- ✓ Guidance on how to conduct system risk assessment, including traveler delay/impact metrics
- ✓ Guidance on running lifecycle cost assessment

If feasible, WSP can the project as one of the representative asset classes for the risk assessments to be done in earlier tasks.

WSP will prepare a short summary document (3-5 pages, estimated) that summarizes any lessons learned from the coordination with this regional project and identify any alterations to processes recommended for future efforts.

EXHIBIT “B” SCHEDULE OF SERVICES

Schedule:

For reference, the schedule for the overall Analysis for Smart Climate-Resilient Transportation Planning and Investments project is provided below.

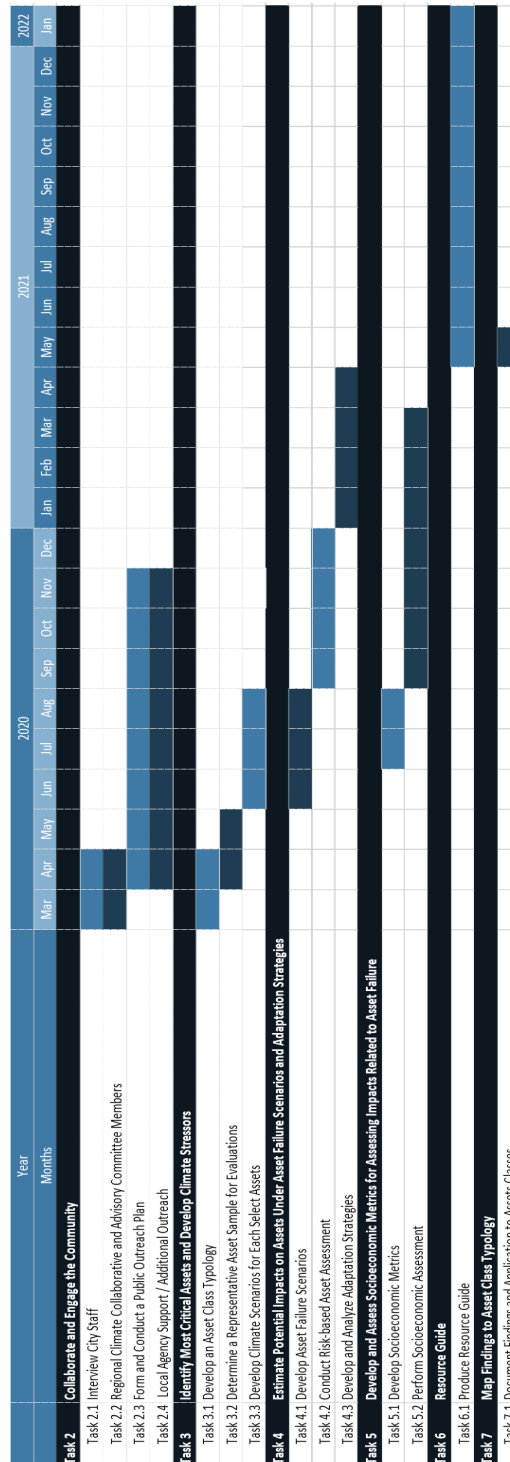


EXHIBIT "C" COMPENSATION

		Task Hours											Total Hours	Labor Budget
		2	3	4	5	6	7	8	9	10				
Name	Project Role	Billing Rate per Hour	Community Engagement	Critical Assets & Climate Stressors	Asset Assessment	Socioeconomic Costs	Resource Guide	Map Findings to Asset Class Typology	Integrating Analysis	Develop Tools	Design Project Coordination			
WSP														
TIMOTHY GROSE	Project Manager	\$186.63	10	36	100	20	35	10	12	20	20	263	\$49,082.83	
MICHAEL FLOOD	Senior Advisor	\$323.19	8	16	60	20	12	4	40	20	20	200	\$64,638.12	
M RAWLINGS MILLER	Climate Scientist	\$250.87	-	60	-	-	-	-	-	14	-	74	\$18,564.29	
MATTHEW MOORE	H&H Engineer	\$224.44	-	55	80	-	10	2	4	14	2	167	\$37,481.13	
GEORGE HARVILLA JR.	Civil Engineer	\$233.63	-	-	80	-	-	2	4	-	2	88	\$20,559.15	
ALLISON RELLY	Equity Planner	\$185.01	20	-	68	120	40	10	20	20	-	298	\$31,319.39	
MOISES ARZAMENDI	Geotechnical Engineer	\$230.06	-	10	40	-	-	-	-	-	2	52	\$11,963.23	
LUKE YANG	Transit Planner	\$192.38	-	-	40	-	-	-	4	-	-	44	\$8,464.85	
SURI SADASIVAM	Asset Management Specialist	\$211.16	-	-	60	-	-	-	22	-	2	84	\$17,737.14	
ANNIKA BAGSDALE	Climate Adaptation Planner	\$118.53	-	-	20	-	20	-	-	-	2	42	\$4,978.24	
PATRICK KRESL	Graphics Specialist	\$118.42	-	-	-	-	4	-	-	6	-	10	\$1,184.24	
WILLIAM HWANG	Project Finance	\$224.44	-	-	-	-	-	-	15	-	-	15	\$3,366.57	
DAVID CARLSON	Environmental Planner	\$285.64	-	-	20	20	-	-	6	-	-	46	\$13,139.60	
CHRISTI BYRD	Travel Demand Forecaster	\$255.73	-	-	-	100	-	-	-	60	2	162	\$41,427.81	
TO BE NAMED	Project Accountant	\$117.50	1	4	5	4	4	1	4	4	-	27	\$3,172.50	
	Subtotal Hours		39	181	573	284	125	29	131	158	52	1,572		
	Subtotal Labor Budget		\$6,665.90	\$42,056.44	\$120,078.14	\$54,553.20	\$20,169.31	\$5,242.76	\$30,091.27	\$35,475.03	\$12,743.43		\$327,079.08	
Placeworks														
TAMMY SEALE	Task 2 Lead	\$272.91	40	-	-	5	-	-	5	-	-	50	\$13,644.96	
WENDY NOWAK	Public Outreach Lead	\$260.52	41	-	-	-	-	-	-	-	-	41	\$10,681.32	
TBD	Associate	\$144.51	48	-	-	-	-	-	-	-	-	48	\$6,936.48	
TBD	Project Planner	\$113.54	90	-	-	-	-	-	-	-	-	90	\$10,218.60	
TBD	Planner	\$86.02	75	-	-	10	-	-	30	-	-	115	\$9,892.30	
TBD	Editor	\$137.67	3	-	-	-	-	-	-	-	-	3	\$413.01	
TBD	Graphics	\$103.24	3	-	-	-	-	-	-	-	-	3	\$309.72	
	Subtotal Hours		300	-	-	15	-	-	35	-	-	350		
	Subtotal Labor Budget		\$45,926.49	\$0.00	\$0.00	\$2,224.75	\$0.00	\$0.00	\$3,945.15	\$0.00	\$0.00		\$52,096.39	
	Total Hours		339	181	573	299	125	29	166	158	52	1,922		
	Total Labor Budget		\$52,596.00	\$42,056.44	\$120,078.14	\$56,777.95	\$20,169.31	\$5,242.76	\$34,036.42	\$35,475.03	\$12,743.43		\$379,175.47	

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Western Riverside Council of Governments

Technical Advisory Committee

Staff Report

Subject: Regional Streetlight Program Activities Update

Contact: Daniel Soltero, Staff Analyst, dsoltero@wrcog.us, (951) 405-6738

Date: July 16, 2020

The purpose of this item is to provide an update on the Regional Streetlight Program Operations & Maintenance services.

Requested Action:

1. Receive and file.

Background

At the direction of the Executive Committee, WRCOG developed a Regional Streetlight Program that allows the 11 participating jurisdictions (and Community Service Districts) to purchase streetlights within their boundaries which are currently owned and operated by Southern California Edison (SCE). Once the streetlights are owned by the member jurisdiction, the lamps will be retrofitted to Light Emitting Diode (LED) technology to provide more economical operations (i.e., lower maintenance costs and reduced energy use). Local control of the streetlight system provides jurisdictions with opportunities for future revenue generation such as digital-ready networks and telecommunications and information technology strategies.

Regional Streetlight Retrofit Completion

The Regional Streetlight Program has completed the retrofit of over 53,000 streetlights to energy efficient LED fixtures. In December 2018 and February 2019, the Cities of Moreno Valley and Murrieta were the first jurisdictions in the Program to start retrofitting their streetlights to LED fixtures. Over the course of 2019, an additional seven participating jurisdictions across the subregion started their streetlight LED retrofit projects, and most of those jurisdictions also saw the completion of their individual retrofit projects in the same year. Once the City of Murrieta's retrofit project was nearing completion, the retrofit projects in other jurisdictions could be started and run concurrently for a few weeks. The staggered projects resulted in up to three retrofit projects being managed at the same time, whether they were starting, in the middle of their project, or nearing completion.

In March 2020, the City of Menifee started its streetlight retrofit and three months later the project was completed. Additionally, the City of Perris started its streetlight retrofit project in May 2020 and completed the project in July 2020. The final two jurisdictions to start their streetlight retrofit projects ran concurrently for two months which allowed for a few technicians to be dispatched to other jurisdictions for punch list work including pole tagging and final remaining conversions that had an issue during the first round of retrofit. As the main portion of the retrofit project is completed and the project is substantially complete, a punch list is developed to conduct a quality check of all the data and to ensure all streetlight poles have been converted and/or tagged.

As the retrofit projects come to completion, WRCOG will continue to support the participating jurisdictions with preparing and submitting the SCE streetlight rebates. At this time WRCOG has distributed the rebate funds to

the Cities of Eastvale, Murrieta, and Wildomar for a combined rebate value of \$976,380. The remaining participating jurisdictions' rebates are currently in process of being prepared and uploaded to the SCE Online Tool. Additionally, WRCOG will continue to support jurisdictions with administrative support until the rebates are received and distributed to the jurisdictions. The table below shows the current status of the rebates process for each jurisdiction.

Jurisdiction	Rebate Amount	Status
Eastvale	\$413,917	Complete
Hemet	Est. \$172,930	10% - In progress
JCSD	Est. \$189,458	50% - In progress
Lake Elsinore	Est. \$374,362	15% - In progress
Menifee	Est. \$501,023	Pending New SCE Service Account Numbers
Murrieta	\$461,271.00	Complete
Perris	Est. \$513,477	Pending New SCE Service Account Numbers
San Jacinto	Est. \$187,390	25% - In progress
Temecula	Est. \$684,044	10% - In progress
Wildomar	\$101,192	Complete

Smart Streetlights Research

As the Regional Streetlight Program shifts away from the LED retrofit, WRCOG will be expanding the Program by researching the applications of smart city technologies with streetlights. Through technological innovations and applications, the concept of a smart city can result in increased operational efficiencies, increased level of service, higher cost-savings, and new opportunities to generate revenue. WRCOG will be researching smart city and internet of things (IoT) technologies regarding streetlights in four categories: Public Safety, Sustainability, Transportation, and Connectivity.

WRCOG will develop a Regional Smart Streetlights Plan which will assess all WRCOG member jurisdictions' readiness for smart city technologies including underground fiber networks, existing infrastructure, and general interest in implementing smart city or IoT technologies on publicly-owned streetlights. The Plan will consider member jurisdictions' interest and readiness for smart city implementation in order to recommend general technologies in each of the four categories that are compatible with existing infrastructure. WRCOG staff will be coordinating with participating member jurisdictions through the remainder of 2020 to determine regional interest in smart city and IoT technologies for streetlights, and development of the Regional Smart Streetlight Plan.

Prior Action:

May 21, 2020: The Technical Advisory Committee received and filed.

Fiscal Impact:

This item is for informational purposes only; therefore, there is no fiscal impact.

Attachment:

None.



Western Riverside Council of Governments Technical Advisory Committee

Staff Report

Subject: SCAG Connect SoCal Plan Update

Contact: Chris Gray, Director of Transportation & Planning, cgray@wrcoq.us, (951) 405-6710

Date: July 16, 2020

The purpose of this item is to provide an update of the Southern California Association of Governments (SCAG) Connect SoCal Plan.

Requested Action:

1. Receive and file.
-

Introduction

One essential duty of the SCAG is the preparation of a Regional Transportation Plan/Sustainable Community Strategy (RTP/SCS). Approval of the document is a requirement of both the federal and state government and is a prerequisite for transportation projects to receive a variety of funds. The RTP/SCS is prepared every four years and SCAG has been working over the past several years towards approval of the document in 2020.

During the spring of 2020, SCAG received numerous comments regarding the Draft RTP/SCS which fell into two broad categories. The first category of comments expressed concerns with the underlying land use data within the document. There is a coalition of the private industry, including the building industry and countywide economic / business councils, that provided comments regarding SCAG's Growth Forecast data. The second category of comments requested that SCAG more specifically address COVID-19 including its economic and social impacts.

In response to these comments, the SCAG Regional Council adopted Resolution No. 20-621-1 certifying the Connect SoCal Program Environmental Impact Report (PEIR) and approving Connect SoCal for federal conformity purposes only. The Resolution postponed for up to 120 days the date by which the Regional Council would be asked to consider approval of Connect SoCal in its entirety and outlined a series of activities to be undertaken by staff prior to reconsideration of the plan for all other purposes, including but not limited to submittal to the California Air Resources Board (ARB). The Resolution provided direction to staff to report back to the Regional Council within 60 days on progress related to items in the Resolution, including modifications to the Sustainable Communities Strategy (SCS) and associated modeling analysis.

SCAG staff has indicated that additional outreach has been conducted, and all activities directed by Resolution No. 20-621-1 have been completed. SCAG sent an email to its member jurisdictions' City Managers on June 2, 2020, announcing the opportunity to review and provide input on the Traffic Analysis Zone (TAZ)-level Growth Forecast data by June 9, 2020. SCAG indicated that it was accepting feedback and proposed modifications to capture growth anticipated from entitlements at the TAZ-level and/or to ensure that growth at the TAZ-level does not exceed general plan capacities, in accordance with [Connect SoCal's Growth Forecast Guiding Principles](#). It is WRCOG's understanding that 12 of the 197 jurisdictions in the SCAG region responded to this inquiry.

SCAG has also indicated that it is conducting additional analysis of the TAZ-level Growth Forecast data to ensure consistency with Connect SoCal's Growth Forecast Guiding Principles, which aim to ensure Connect SoCal does not exceed the maximum density of local general plans as conveyed by jurisdictions at the TAZ level except in the case of existing entitlements and development agreements. To the extent this analysis suggests the Connect SoCal TAZ-level data needs further refinement, SCAG staff has indicated that they will reach out directly to local jurisdictions to discuss these potential refinements.

SCAG is indicating that staff will be integrating the necessary technical modifications to the SCS data to address the Regional Council's direction and is preparing recommendations for addressing the short- and long-term impacts of the COVID-19 pandemic as part of the agency's broader work plan to implement Connect SoCal and prepare for future updates. Given the limited-nature of the technical modifications within a regional planning context, SCAG staff intends to recommend that the Regional Council proceed with adoption of Connect SoCal in its entirety once modifications to the SCS data have been modeled. Given the feedback heard to date and constraints of the 120 day timeline, staff is not recommending any changes to the policies or strategies in the plan itself but rather recommends emergent issues continue to be studied and addressed as part of a future plan update.

Prior Action:

None.

Fiscal Impact:

This item is for informational purposes only; therefore, there is no fiscal impact.

Attachment:

None.



Western Riverside Council of Governments Technical Advisory Committee

Staff Report

Subject: AB 3205 Regions Rise Grant Program Update

Contact: Elisa Laurel, Program Manager, elaurel@wrcog.us, (951) 405-6752

Date: July 16, 2020

The purpose of this item is to provide an update on the AB 3205 Regions Rise Grant Program.

Requested Action:

1. Receive and file.
-

Introduction

AB 3205 (as amended, Salas) establishes the Regions Rise Grant Program, administered by the Governor's Office of Business and Economic Development (GO-Biz) to support inclusive, cross-jurisdictional, and innovative processes that lead to inclusive strategies to address barriers and challenges confronting communities in creating economic prosperity for all. The Bill aims to create pathways for private business, philanthropy, and others to financially support inclusive planning and decision making processes reflective of a shared vision of a California for all, across the state's underserved regions for investment.

Recent provisions of AB 3205 include the following:

- 1) Requires a regional collective to have, as one of its primary missions, the addressing of one or more common regional issues and challenges that are larger than a single community, including, but not limited to, workforce development, educational pathways, land use, climate planning, transportation, housing, homelessness, economic mobility, equity gaps, and economic development.
- 2) Requires a regional collective that receives funding to establish a steering committee that is inclusive of historically underrepresented persons and representative of the membership of the region.
- 3) Specifies that eligible activities include funding to support regional collectives at different collaboration stages, including, but not limited to, initiating or expanding regional convenings and planning activities, sustaining regional convenings and planning activities in process, and implementing recommended strategies resulting from those activities.
- 4) Sets the following program priorities:
 - a) The region's need for cross-sectoral and cross-jurisdictional solutions to the demonstrated key regional challenges.
 - b) The readiness and capacity of the region to support rural, disadvantaged areas, or underserved population groups.

- c) The assessment of key deliverables funded under the grant and the potential of the regional collective's overall initiative to make system changes that can be operationalized based on success stories and best practices.

WRCOG staff is currently monitoring this Bill and is in discussions with several key stakeholders around the region to determine how best to position ourselves to secure funding from this grant opportunity.

Prior Action:

None.

Fiscal Impact:

This item is for informational purposes only; therefore, there is no fiscal impact.

Attachment:

None.



Western Riverside Council of Governments Technical Advisory Committee

Staff Report

Subject: Riverside County Economic Recovery Task Force Update

Contact: Juan Perez, Director of Transportation and Land Management, jcperez@rivco.org, (951) 955-6742

Date: July 16, 2020

The purpose of this item is to receive an update on COVID-19 activities as they relate to the Riverside County reopening processes and procedures in conjunction with the State of California requirements.

Requested Action:

1. Receive and file.

This item is reserved for a presentation from Juan Perez, Director of Transportation and Land Management Agency for the County of Riverside.

Prior Action:

None.

Fiscal Impact:

This item is for informational purposes only; therefore, there is no fiscal impact.

Attachment:

None.

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Western Riverside Council of Governments Technical Advisory Committee

Staff Report

Subject: Report from the League of California Cities

Contact: Erin Sasse, Regional Public Affairs Manager, League of California Cities,
esasse@cacities.org, (951) 321-0771

Date: July 16, 2020

The purpose of this item is to provide an update of activities undertaken by the League of California Cities.

Requested Action:

1. Receive and file.

This item is reserved for a presentation by Erin Sasse, Regional Public Affairs Manager for the League of California Cities.

Prior Action:

June 1, 2020: The Executive Committee received and filed.

Fiscal Impact:

This item is for informational purposes only; therefore, there is no fiscal impact.

Attachment:

None.

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Western Riverside Council of Governments

Technical Advisory Committee

Staff Report

Subject: Public Service Fellowship Activities Update

Contact: Rachel Singer, Staff Analyst, rsinger@wrcog.us, (951) 405-6754

Date: July 16, 2020

The purpose of this item is to provide an update on the WRCOG Public Service Fellowship Program and initiate discussions regarding logistics for the fifth round of the Program.

Requested Action:

1. Receive and file.

In partnership with higher education institutions and member agencies, WRCOG developed and launched a Public Service Fellowship Program in 2016. The Program provides current college students and recent graduates with career opportunities in local governments in a way that is mutually beneficial to both the Fellow and the host agency.

Background

WRCOG's Public Service Fellowship Program was established in 2016.. The goal of the Fellowship Program is to retain local students to fulfill the subregion's needs for a robust public-sector workforce and to combat the problem of "brain drain," which occurs when local students graduate and then leave the region to seek full-time employment outside of the region. The Fellowship Program aims to engage local students and alumni in career opportunities with local governments and agencies in a way that is mutually beneficial to both the Fellows and the host agency.

WRCOG is responsible for general Program administration and oversight including maintaining employment of the Fellows, soliciting interest from local government agencies, serving as the liaison between member agencies and the universities, providing Program funding, reviewing applications, conducting interviews, recommending Fellow placements, and coordinating payment of Fellowship stipends. In addition, WRCOG provides ongoing training to Fellows on career readiness and relevant topics during monthly program workshops to support their hands-on work experience.

Since inception, 60 Fellows have been placed in member agencies over four rounds of the Program, contributing over 57,000 hours of service to member agencies.

Round V Updates

In February 2020, the Executive Committee, advised by the Technical Advisory Committee and Fellowship Ad Hoc Committee, enacted some changes to the Fellowship Program to sustain the longevity of the Program and enhance the host agency and Fellow experience. The changes to the Program included the following:

- Host Agencies will contribute 50% towards the cost of its Fellow
- Host agencies applying for a Fellow will provide a specific description of the anticipated tasks

- Fellows will have a limit of 30 work hours per week
- WRCOG will implement an Exit Interview for Fellows and host agency supervisors

Among these changes, the Executive Committee also required the continuation of WRCOG's policy to alternate Fellow placement in host agencies to ensure that each member can have the opportunity to receive a Fellow in alternating years.

COVID-19 Implications

In light of various challenges associated with the impacts of COVID-19, the fifth round of the Fellowship Program was postponed in March 2020 from an original start date of July 2020 to a start date of September 2020. This postponement was done in the best interest of WRCOG's host agencies and prospective Fellows. The updated schedule is currently as follows:

- July 31, 2020 – All Fellowship applications due from interested participants and host agencies
- August 2020 – Fellowship interviews, selection, and placement in host agencies
- September 2020 – Fellowship Program begins
- May 2021 – Fellowship Program concludes

To date, WRCOG has received 50 Fellow applications and 10 host agency applications from the Cities of Canyon Lake, Jurupa Valley, Murrieta, and San Jacinto, in addition to the County of Riverside Districts 2 and 5, the Eastern Municipal Water District, Western Community Energy, and Western Municipal Water District.

WRCOG understands that priorities may have shifted due to the challenges associated with COVID-19 and would like to re-confirm interest in the Fellowship Program from already applied host agency applicants as well as members who have not yet submitted a Host Agency Application but plan to by the July 31, 2020, deadline. Notably, there are 18 members which are prioritized for the fifth round of the Fellowship Program and have not yet submitted Fellowship applications (see Attachment 1 for the Host Agency Application). Members which have priority placement will also be eligible for half of the matching funds needed for a Fellow (see Attachment 2 for the Priority Placement Document). The members who are being prioritized for the fifth round of the Program include the Cities of Beaumont, Corona, Eastvale, Hemet, Menifee, Moreno Valley, Murrieta, Norco, Perris, San Jacinto, and Temecula, the County of Riverside Districts 1, 2, and 3, the Eastern Municipal Water District, Morongo Band of Mission Indians, March JPA, and the Riverside County Superintendent of Schools.

To preserve the quality of the Fellowship cohort, it is WRCOG's preference that Fellowship cohorts have at least 12 Fellows. After the July 31, 2020, deadline, WRCOG staff will provide an update to this Committee regarding the status of the Fellowship Round V and the need for any deferral or additional delay.

Because of the various challenges related to COVID-19, staff will also reconvene the Fellowship Ad Hoc Committee after July 20, 2020, to discuss solutions moving forward. Currently, the Fellowship Ad Hoc Committee is comprised of representatives from the Cities of Banning, Canyon Lake, Lake Elsinore, and San Jacinto, and the Eastern Municipal Water District.

Prior Actions:

February 3, 2020: The Executive Committee 1) required agencies applying for a WRCOG Fellow to contribute 50% towards the cost of that Fellow, 2) required agencies applying for a WRCOG Fellow to provide a specific description of the tasks the Fellow is expected to work, 3) limited future Fellows to working no more than 30 hours per week, 4) maintained the continuation of WRCOG's policy of alternating Fellow placement to give priority to ensure that each agency can receive a Fellow in alternating years, 5) directed staff to reach out to UCR, CBU, and Cal State San Bernardino to further inquire if financial contribution is feasible, and 6) implemented an Exit Interview for Fellows and host agency supervisors.

January 16, 2020: The Technical Advisory Committee recommended that the Executive Committee 1) require agencies applying for a WRCOG Fellow to contribute 50% towards the cost of that Fellow; 2) require agencies applying for a WRCOG Fellow to provide a specific description of the tasks the Fellow is expected to work when applying for that Fellow; 3) limit future Fellows to working no more than 30 hours per week; 4) maintain WRCOG's policy of alternating Fellow placement to give priority to ensure that each agency can receive a Fellow in alternating years; 5) direct staff to reach out to UCR, CBU, and Cal State San Bernardino to further inquire if financial contribution is feasible; and 6) directed staff to implement an Exit Interview for Fellows and host agency supervisors.

January 8, 2020: The Administration & Finance Committee recommended that the Executive Committee 1) require agencies applying for a WRCOG Fellow to contribute 50% towards the cost of that Fellow; 2) require agencies applying for a WRCOG Fellow to provide a specific description of the tasks the Fellow is expected to work when applying for that Fellow; 3) limit future Fellows to working no more than 30 hours per week; 4) maintain WRCOG's policy of alternating Fellow placement to give priority to ensure that each agency can receive a Fellow in alternating years; 5) direct staff to reach out to UCR, CBU, and Cal State San Bernardino to further inquire if financial contribution is feasible; and 6) direct staff to implement an Exit Interview for Fellows and host agency supervisors.

September 19, 2019: The Technical Advisory Committee designated five-member agency representatives to sit on the Fellowship Ad Hoc Committee for the fifth round of the Program. Representatives are from the Cities of Banning, Canyon Lake, Lake Elsinore, and San Jacinto, as well as Eastern Municipal Water District.

Fiscal Impact:

Activities for the Fellowship Program are included in the Agency's adopted Fiscal Year 2020/2021 Budget under the Transportation and Planning Department.

Attachments:

1. Host Agency Application.
2. Priority Placement Document.

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Item 6.C

Public Service Fellowship Activities
Update

Attachment 1

Host Agency Application

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Public Service Fellowship Program Round 5 (2020-2021) Host Agency Application

Please submit completed forms to Rachel Singer at rsinger@wrcog.us by July 31, 2020.

I. Program Overview

In February 2016, WRCOG launched the Public Service Fellowship Program to retain local talent fulfilling the subregion's need for a robust public sector workforce and to combat the frequency of local students leaving the region after graduation to secure full-time employment elsewhere. The Program is geared toward engaging local students and young professionals in career opportunities within local agencies.

WRCOG is responsible for general Program operation and oversight, administering employment of Fellows, soliciting interest from local government agencies, and assigning Fellow placements. WRCOG also provides ongoing hard- and soft-skills training to Fellows in monthly Professional Development Sessions to support their hands-on work experience.

II. Host Agency Responsibilities

Host agencies are responsible for providing an enriching learning experience for Fellows. The Fellowship Program is highly selective and asks for a superior level of talent, professionalism, and initiative from Fellows—setting them apart from average interns. As such, host agencies are asked to provide meaningful growth opportunities and mentorship supporting the necessary skill development to make them equipped to meet the public sector staffing needs of the subregion upon graduation.

III. Host Agency Placement Priority

Fellow placement will operate on an every-other-year basis. Placements will be prioritized based on whether an agency received a Fellow in the previous round. Those that did not receive a Fellow in the previous round will be given priority over those that did receive a Fellow.

IV. Round 5 Updates

Beginning in Round 5, the Program will implement a 50/50 split cost of a Fellow between the host agency and WRCOG to extend remaining program funds. The Program will continue to sustain every-other-year placement and the 50/50 split cost is subject to the every-other-year placement. However, member agencies can opt to host a Fellow back-to-back years if they fund 100% of the cost of a Fellow.

V. Payment

The total cost of one Fellow is \$20,000. Under the 50/50 split, a host agency is responsible for \$10,000. Once a Fellow placement is confirmed in a member agency, WRCOG will send an invoice and the funds will be due from the member agency at the start of the fiscal year in July 2020. If a host agency is interested in fully funding a Fellow, \$20,000 will be paid to WRCOG at the start of the Program.

In the even that a Fellow drops out or leaves the program early, WRCOG will calculate the prorated amount and reimburse the host agency the remaining hours a Fellow did not complete.

VI. Priority Placement

There are three tiers of priority for Fellow placement in a host agency. They are as follows:

- **Tier 1 (top priority):** Member agencies who are to receive a Fellow per the every-other-year placement.
- **Tier 2:** Member agencies who are funding 100% of the cost of a Fellow back-to-back years.
- **Tier 3:** Additional Fellows requested by a member agency and who will be 100% funded through a member agency.

VII. Jurisdiction/Agency Information

Agency Name: _____

Phone Number: _____

Address: _____

Who will be responsible for supervising and mentoring the Fellow(s)?

Name: _____

Title: _____

Department: _____

Email: _____

Phone: _____

VIII. Fellow Information

A. Please identify the type of Fellow that you would like to apply for:

Fellow under 50/50 split (funded by WRCOG & host agency and subject to alternating host agency placement): ____

Fellow 100% funded through host agency (not subject to alternating host agency placement): ____

B. Select the preferred area of study/education background(s) you would like the Fellow(s) to have. Please check all that apply:

Public Policy: ____

Political Science: ____

Business Administration: ____

Marketing: ____

Public Health: ____

Economics: ____

Engineering: ____

Finance: ____

Environmental Science: ____

Other: _____

C. Preferred level of educational attainment of Fellow(s). Please check one:

Bachelor's degree in process: ____

Bachelors' degree: ____

Master's degree in process: ____

Master's degree: ____

D. Please complete the table below outlining **all** assignments and activities your agency would like prospective Fellow(s) to work on in 2020/2021:

**If you are requesting more than one Fellow, please complete an additional table noting prospective projects each desired Fellow would work on.*

**All Fellows should have at least one “spotlight” project, which will be their primary responsibility and one that they can take particular ownership of. The hope is that Fellows can point back to their spotlight project as an example of the work completed in the Program.*

Prospective Fellow Projects					
Name of Project	Description	Agency Department	Fellow's Role	Anticipated Duration	Spotlight Project?
<i>*ex: Climate Adaptation Plan (CAP)</i>	<i>WRCOG is compiling a regional CAP to equip the region to meet State mandated goals.</i>	<i>Planning</i>	<i>Data collection, entry, and communications</i>	<i>9 months</i>	<i>Yes</i>
<i>*ex: Communications Support</i>	<i>Fellow will support drafting and posting social media contact</i>	<i>Government Relations</i>	<i>Taking photographs and posting for agency wide social media efforts</i>	<i>9 months</i>	<i>No</i>

E. Do you wish to participate in the Fellow interview process, or do you want the Fellowship Program Administrators (WRCOG) to make a placement selection on your behalf? Please check one:

Participate in interview process: ____

Receive Fellow placement: ____

IX. Other Comments

Please leave any other comments or feedback on the Public Service Fellowship you would like WRCOG staff to be aware of prior to placing the Round III Fellows.

X. Interest Form Submission and Program Contact Information

Please submit interest forms to Rachel Singer at rsinger@wrcog.us by Friday, July 31, 2020.

For questions please contact:

Rachel Singer rsinger@wrcog.us (951) 405-6754 Staff Analyst	Chris Gray cgray@wrcog.us (951) 405-6710 Director of Transportation and Planning
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(2020-2021) Round V Program Timeline:

January 6, 2020: Fellow Application Released

February 5, 2020: Host Agency Application Released

April 2, 2020: WRCOG Postpones 2020-2021 Fellowship Cohort

July 31, 2020: ALL Fellowship Applications Due (Host Agencies and Fellows)

August 2020: Fellowship Interviews, Selection & Placement in Host Agencies

September 2020: Fellowship Program Begins

May 2021: Fellowship Program Concludes

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Item 6.C

Public Service Fellowship Activities Update

Attachment 2

Priority Placement Document

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WRCOG Fellowship Program
Round 5 Priority Placement Status

What does priority placement mean? Priority placement occurs on an every-other-year basis for member agencies. If a member has submitted a host agency application *and* they have priority placement, WRCOG will actively seek to place a Fellow in that agency before other members who received a Fellow the previous year. Please note that a member agency **MUST** submit a host agency application in order to qualify.

Member Agencies with Round 5 Priority Placement Status

City of Beaumont

City of Corona

County of Riverside, District 1

County of Riverside, District 2

County of Riverside, District 3

City of Eastvale

City of Hemet

City of Menifee

City of Moreno Valley

City of Murrieta

City of Norco

City of Perris

City of San Jacinto

City of Temecula

Eastern Municipal Water District

Morongo Band of Mission Indians

March JPA

Riverside County Superintendent of Schools

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Western Riverside Council of Governments Technical Advisory Committee

Staff Report

Subject: WRCOG Climate Adaptation Efforts

Contact: Casey Dailey, Director of Energy & Environmental Programs, cdailey@wrcog.us, (951) 405-6720

Chris Gray, Director of Transportation & Planning, cgray@wrcog.us, (951) 405-6710

Date: July 16, 2020

The purpose of this item is to provide an update of WRCOG's current efforts related to Climate Adaptation and discuss two forthcoming grant-funded projects that will commence work in Fiscal Year 2020/2021.

Requested Action:

1. Receive and file.

Introduction

Western Riverside County has long been challenged by climate events including droughts, extreme heat and seasonal storms. These climate events often lead to even more damaging secondary effects such as fires and flooding. An example of these types of challenges occurred in 2018 when a large fire near Lake Elsinore was followed by extreme storms which in turn caused flooding.

As our subregion continues to grow, climate events continue impacting our residents, employees, and visitors. While the impacts to privately owned land are significant, the infrastructure such as the streets are also impacted. While most publicly owned infrastructure is designed to withstand these climate events, there have been numerous instances in which these events have caused this infrastructure to fail. One needs to look no farther than the catastrophic damage inflicted on several State Highways in our region as documented by WRCOG at https://www.youtube.com/watch?v=L9_9ZhMG0Ko&t=2s.

While these climate events are certainly challenging, they do lend themselves to regional solutions as many agencies share the same challenges. Recognizing the benefits of a regional approach, WRCOG recently undertook a series of studies to further assist the jurisdictions in Western Riverside County to prepare for and mitigate risks associated with climate threats within the subregion. A summary of each effort is provided below.

Resilient IE Phase I – Completed February 2020

Resilient IE was developed in collaboration with the San Bernardino County Transportation Authority (SBCTA) with funding from Caltrans. Resilient IE worked to support regional and local efforts to prepare for and mitigate risks associated with climate adaptation on the region's transportation infrastructure with five primary project components:

1. A newly established regional climate collaborative, the Inland Southern California Climate Collaborative (ISC3) – Launched in early 2020, ISC3 is a diverse, cross-sectoral network of agencies, organizations,

companies, and institutions working together to advance equitable solutions to create a resilient and thriving inland southern California. ISC3 covers all of Riverside, San Bernardino, and Imperial Counties, and continues to recruit new members.

2. Subregional vulnerability assessments and adaptation strategies – Resilient IE updated Vulnerability Assessments and Adaptation Strategies to identify effects of anticipated increases in the frequency and intensity of climate-related hazards and assets in the subregion that are vulnerable, as well as opportunities and methods to mitigate identified vulnerabilities and increase resilience. WRCOG and SBCTA have secured additional funding from Caltrans' SB 1 Adaptation Planning Grant program to expand the pilot into a rigorous region-wide analysis of the climate risks associated with critical assets within the transportation network (Resilient IE Phase II).
3. City-level, climate-related transportation hazards and evacuation maps – An interactive web map was created to depict city-level evacuation routes and hazards (i.e., flood plains, extreme heat days, and wildfire burn areas) that can be used for a variety of climate adaptation and resiliency planning efforts, including insertion into local hazard mitigation plans, safety elements of the General Plan, or local adaptation plans / strategies.
4. A regionally-tailored climate resilient transportation infrastructure guidebook – The Climate Resilient Transportation Infrastructure Guidebook provides insights on current policy, procedures, local and regional challenges and solutions, and resilient infrastructure strategies. The Guidebook also includes case studies, design examples, and implementation guidance.
5. A template regional climate adaptation and resiliency element – The template is a timely resource for jurisdictions to incorporate into its General Plans and/or use in other policy documents to meet newly enacted requirements under Senate Bill (SB) 379, which mandates that the safety elements of General Plans must now include climate adaptation and resiliency strategies, or that these strategies must otherwise be included in local hazard mitigation plans. This template builds on work previously conducted by WRCOG and provides the necessary framework for jurisdictions to comply with SB 379 and other mandates.

The combination of Items 2, 3, 4, and 5 are referred to as the Resilient IE Toolkit and can be found at <http://www.wrcog.coq.ca.us/DocumentCenter/View/8019/Resilient-IE-Toolkit>

Resilient IE Phase II – to be Complete by February 2022

Resilient IE Phase II – Analyses for Smart Climate Resilient Transportation Planning and Investments – will expand and advance the pilot Toolkit by conducting risk assessments on a sample of vulnerable transportation assets that provide full asset value, including the needs of disadvantaged and/or vulnerable communities and transit dependent populations. The project will continue engagement and collaboration of partnerships across state, regional, and local governments and stakeholders. Critical partners will include transportation users who rely on an operating regional transportation network to gain access to businesses, hospitals, and shelters. The Analyses will research and develop adaptation strategies, with their associated costs, by projecting the cost of damages and repairs to various asset classes as well as the impact of the assets' failure on the community. Furthermore, the project will incorporate co-benefits to public health, natural ecosystems, social equity, the economy, and greenhouse gas reduction. Ultimately the Analyses will provide local jurisdictions with concrete tools, methods, and resources for the region to incorporate asset risk into their planning processes for sound transportation project prioritization and investment.

California Resilience Challenge: Energy Resiliency Plan

In April 2020, the Bay Area Council Foundation awarded WRCOG a grant as part of the California Resilience Challenge, a statewide initiative to assist communities with planning grants to increase their resilience against the effects of climate change. WRCOG will be developing a regional energy resiliency plan addressing the climate change impacts such as wildfires, extreme heat, and resulting public safety power shutoffs (PSPS) on the region's power supply. As climate change impacts such as extreme heat days and wildfires are predicated to increase, this leaves the region in a precarious situation with regards to PSPS as extremely dry, hot, windy events and wildfires are the typical cause for power shutoffs. The ability of each city to locally respond to climate-related events and disasters depends heavily on the dependability of 24/7 energy and power.

The proposed Western Riverside Energy Resiliency Plan will build resilience in the region by developing a blueprint for energy resiliency technologies, projects, and applications for its member jurisdictions. The Plan will identify critical infrastructure and loads in each member city and identify projects and strategies to maintain power supply during power interruptions from environmental events resulting from climate change or PSPS. Furthermore, this Plan will identify both short- and long-term projects and strategies for each city, varying from local generation and energy storage (short-term), to development of local power microgrids and energy-independent 'islands' across the subregion (long-term).

Outreach and engagement will occur throughout the subregional Energy Resiliency Plan process and are critical to help ensure continued success. As such, WRCOG has partnered with UC Riverside's Center for Environmental Research and Technology (CE-CERT).

Prior Action:

None.

Fiscal Impact:

This item is for informational purposes only; therefore, there is no fiscal impact.

Attachment:

None.

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Western Riverside Council of Governments Technical Advisory Committee

Staff Report

Subject: Environmental Department Programs Activities Update

Contact: Kyle Rodriguez, Staff Analyst, krodriguez@wrcog.us, (951) 405-6721

Date: July 16, 2020

The purpose of this item is to provide an activities update on the Environment and Recycling Programs.

Requested Action:

1. Receive and file.

WRCOG's Environmental Department assists member jurisdictions with addressing state mandates which require education and outreach programs that reduce greenhouse gas emissions. The Environmental Department houses three programs to meet California's goals: 1) a Solid Waste Committee, which assists in the development of strategies for reduction of Short-Lived Climate Pollutants; 2) a regional Used Oil Recycling Program, designed to promote the proper recycling and disposal of used oil, oil filters, and Household Hazardous Waste (HHW); and 3) the Clean Cities Coalition, which aims to cut petroleum use in the transportation sector through the integration of alternative fuels and advanced technologies.

Solid Waste Committee

In 1994, WRCOG established the Solid Waste Committee (SWC) after the adoption of Assembly Bill 939, "The Integrated Waste Management Act," to regionally address waste diversion goals in Western Riverside County. The SWC works with its member jurisdictions, its partners, and the California Department of Resources Recycling and Recovery (CalRecycle), meeting quarterly to discuss solid waste, environmental, and recycling issues and ways to address requirements.

AB 939 Electronic Annual Reports (EAR) Submission Date: Participation in the SWC includes the preparation and submittal of the EAR by WRCOG staff on behalf of the members. The EAR helps members complete their legally required annual self-evaluation of solid waste diversion performance. The CalRecycle Disposal Reporting System (DRS), used by nearly all California cities, counties, and regional agencies since 2000, will transition to a new Recycling and Disposal Reporting System (RDRS) per AB 901 regulation. The RDRS will change how organics, a recyclable material, and other solid waste are reported to CalRecycle, giving a more accurate total to help track progress in reducing emissions of short-lived climate pollutants. The original due date of August 1, 2020, has been extended until further notice, due to the transition in reporting systems. For those cities that are not members of the SWC (Beaumont and Norco) and prepare and submit their own EARs (Jurupa Valley, Eastvale, Moreno Valley, Menifee) do NOT submit the EAR until CalRecycle has notified jurisdictions via auto-email. CalRecycle anticipates disposal data to be available mid-August.

San Jacinto awarded Illegal Disposal Site Abatement Grant: In August 2019, staff presented grant opportunities to members of the SWC. WRCOG offers grant assistance through Blais & Associates for members interested in specific opportunities. CalRecycle opened the Illegal Disposal Site Abatement Grant Program in November 2019 to help accelerate the pace of cleanup on properties where illegal dumping occurs. Abandoned items create public health and safety hazards, as well as water quality issues, for residents and

visitors. In June 2020, the City of San Jacinto was awarded \$140,000 to help clean up homeless encampments at three sites within the City. CalRecycle funding will be used for the direct removal costs of contaminated solid waste materials specifically for increased cleanup utilizing City and contracted staff.

Used Oil Recycling and Household Hazardous Waste (HHW)

The Used Oil Program is funded by a grant from CalRecycle, which allows jurisdictions to provide outreach and education on the proper recycling of used motor oil, oil filters, and HHW. WRCOG provides outreach on behalf of 17 member jurisdictions that participate in the Used Oil Program. The primary objective is to teach “Do It Yourself” individuals who change their oil how to dispose of used oil and oil filters properly. Due to COVID-19, WRCOG has postponed in-person oil and outreach events in the subregion until public health conditions improve.

End of Year Analytics: WRCOG’s social media campaign efforts are moving away from event promotion to public announcements and providing resources for recycling used motor oil and other HHW. Using video ads to reach all audiences to promote safe disposal, WRCOG’s videos have been played by over 1.6 million viewers since April 2020. For more analytics on the 2019/2020 social media campaign, a recap is provided as an attachment.

Western Riverside EcoHero Shows: EcoHero is a helpful resource that introduces environmental and recycling programs (food waste, used motor oil & HHW, littering) through songs, dances, and music videos while explaining to students how they can make an impact at home and school. A total of 11 schools participated during the 2019-2020 school year, reaching over 3,000 students (3,547 total). The live shows began at schools throughout Western Riverside County in December 2019 and were performed locally at six schools. During COVID-19, EcoHero provided livestream shows at five schools. Testimonials, dates, schools, and more information on the EcoHero Shows in Western Riverside County are attached (Attachment #2).

Western Riverside County Clean Cities Coalition

The Western Riverside County Clean Cities Coalition seeks to integrate technology with alternative fuels and infrastructure. Clean Cities Coalitions work with the U.S. Department of Energy (DOE) to improve efficiency, increase domestic energy security, and improve operating costs for consumers and businesses. Transportation is a large part of the energy economy; 70% of total U.S. petroleum usage is for transportation. The Clean Cities National Network tracks and reports fuel pricing, openings and closures of fuel stations, and vehicle and station equipment costs to the DOE to provide a picture of Alternative Fuel Vehicles (AFV) technology adoption, petroleum fuel use reductions, and air quality improvement to the subregion. Through Coalitions, the DOE funds additional activities designed to help advance the AFV market in the subregion.

State Route (SR) 91 Alternative Fuel Corridor: On February 26, 2020, the California Energy Commission, along with Caltrans and the Western Riverside County Clean Cities Coalition, nominated SR-91 to the U.S. Department of Transportation as an Alternative Fuel Corridor as designated by the Federal Highway Administration (FHWA). AFV Corridors are designed to establish a national network of alternative fueling and charging infrastructure along national highway system corridors. On June 25, 2020, SR-91 was designated as an AFV Corridor under the FHWA for electric and hydrogen passenger vehicles. The designation of SR-91 will increase funding opportunities and address infrastructure gaps along or near the Corridor.

Prior Action:

May 4, 2020: The Executive Committee received and filed.

Fiscal Impact:

This item is for informational purposes only; therefore, there is no fiscal impact.

Attachments:

1. Used Motor Oil social media campaign analytics.
2. Western Riverside County EcoHero Show recap.
3. State Route 91 Nomination Package.

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Item 6.E

Environmental Department Programs
Activities Update

Attachment 1

Used Motor Oil social media
campaign analytics

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Jul 1, 2019 - Jun 30, 2020



Reach & Impressions

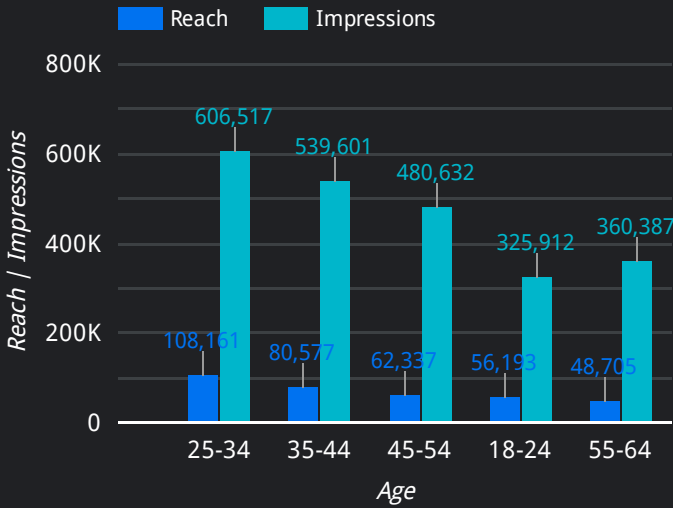
by Age

Reach

356.0K

Impressions

2.3M



Website Clicks & Clicks

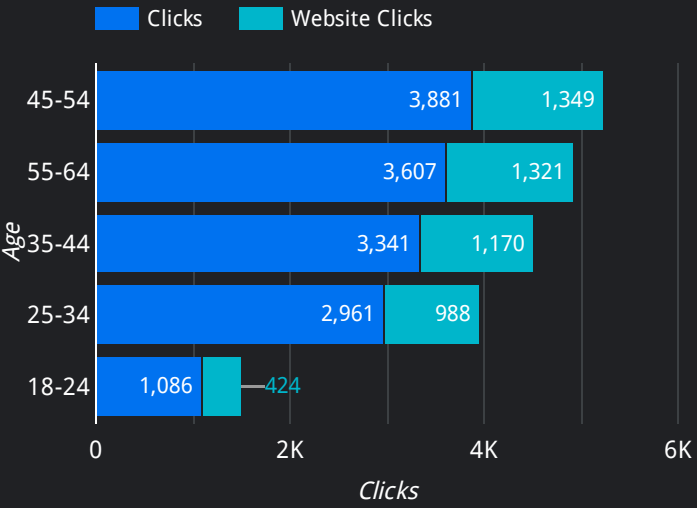
by Age

Website Clicks

5.3K

Clicks

14.9K

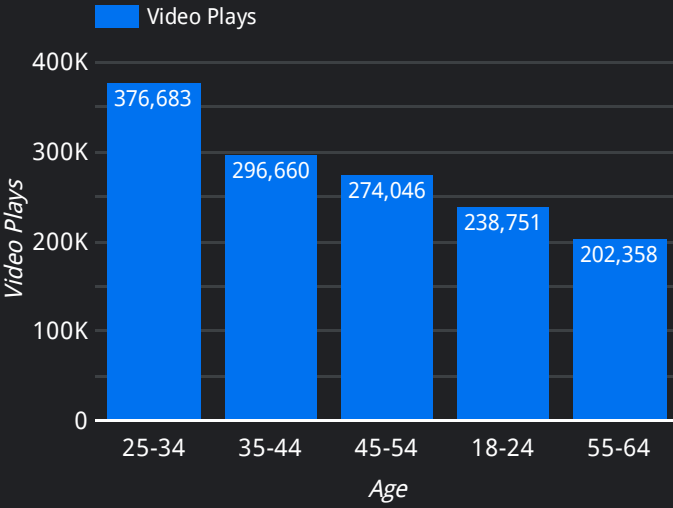


Video Plays

by Age

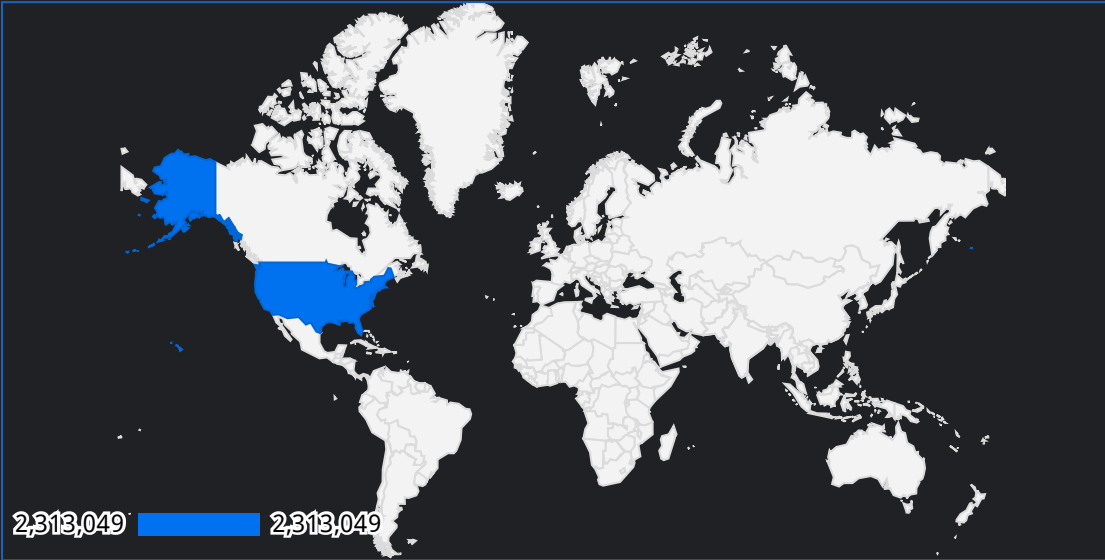
Video Plays

1.4M



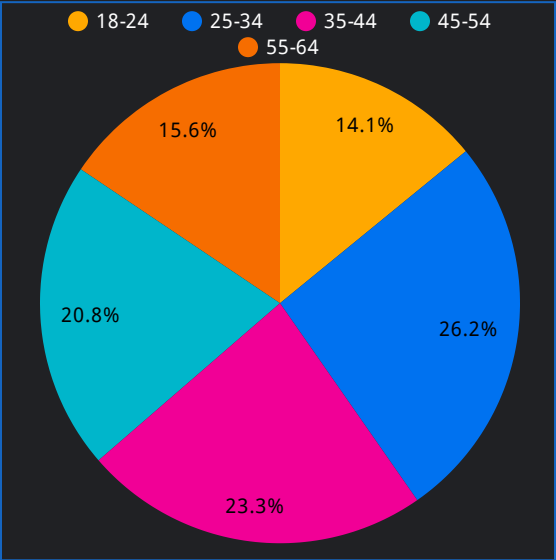
Country Breakdown

by Impressions



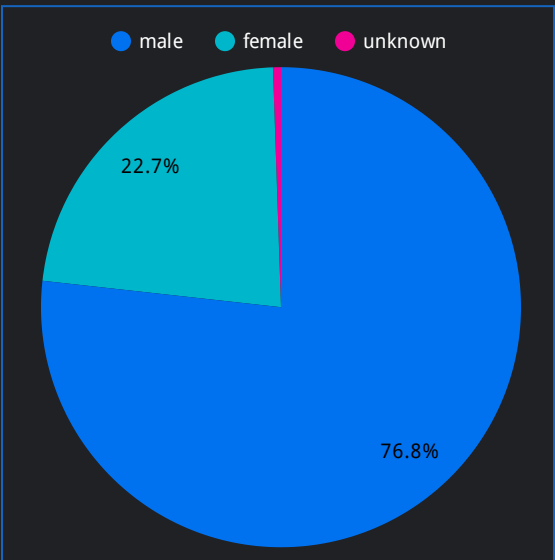
Age Breakdown

by Impressions



Gender Breakdown

by Impressions



Ads Breakdown

by Impressions

	Ads	Impressions
1.	Brand awareness - Vals	529,155
2.	Brand awareness - Oil Change	402,621
3.	Brand awareness - Motorcycle	381,471
4.	Car	308,749
5.	DIY / Green	203,710
6.	Brand awareness - Earth	201,849

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Item 6.E

Environmental Department Programs
Activities Update

Attachment 2

Western Riverside County EcoHero
Show recap

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THE ECOHERO SHOW



www.EcoHeroShow.com | ecoheroshow@gmail.com | 888-482-3885

EcoHero Show + Western Riverside Council of Gov'ts 2019-2020 Recap



Thank you, Kyle and Rayza!

Thanks To You + Others

We were able to:

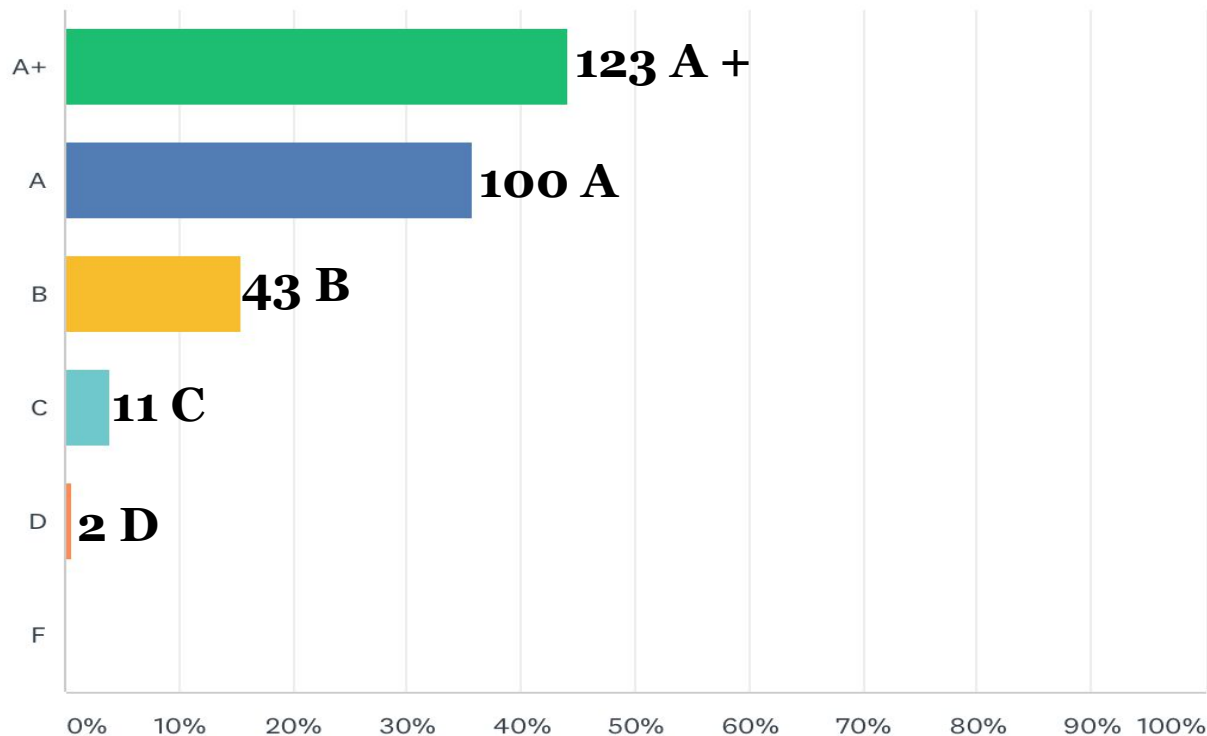
- Perform “The EcoHero Show” in-person to **357 schools** and stream at-home to an additional 55 schools.
- We reached an estimated **185,000 students** and their families/teachers, which is enough to fill the **Staples Center 9 times!**
- Students took our messages home, resulting in **475,000+ views** on our YouTube channel equating to **14,260 hours** of watch time.



Survey Results: Faculty at Schools Grading Our Show

Please "Grade" the overall presentation

Answered: 279 Skipped: 0



Superhero Performers



EcoHero Lexi



Eco TKO

Superhero Performers



Eco Shara



Eco J

Superhero Performers



Ms. Eco



Mr. Eco

Superheroes Behind The Scenes



Pia Piscitelli

- School Booker -



Ellen Piscitelli

- Assistant School Booker -



Candice Dickens-Russel

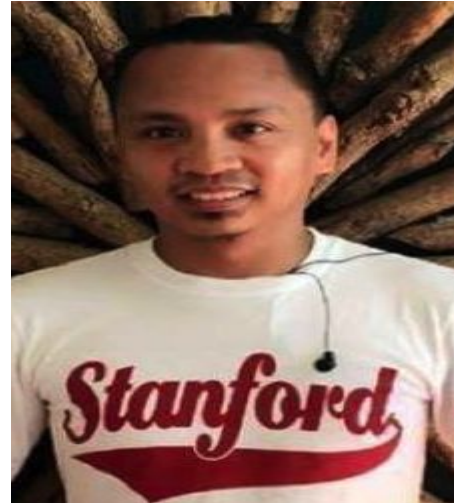
- Assistant School Booker -

Superheroes Behind The Scenes



Monique Figueiredo

- Sponsor Liaison -



Rayand Villanueva

- Logistics Coordinator -

Schools + Dates In Western Riverside

1. Date: Tuesday, December 10, 2019

School: Palm Innovation Academy

of Shows: 2

of Attendees: 398

2. Date: Tuesday, December 10, 2019

School: Wildomar Elementary

of Shows: 2

of Attendees: 523

3. Date: Wednesday, December 11, 2019

School: E. Hale Curran Elementary

of Shows: 2

of Attendees: 600

4. Date: Wednesday, December 11, 2019

School: Estudillo Elementary

of Shows: 1

of Attendees: 300

5. Date: Thursday, December 12, 2019

School: Luiseno School

of Shows: 1

of Attendees: 600

6. Date: Friday, December 20, 2019

School: Pachappa Elementary

of Shows: 2

of Attendees: 742

Live Stream

7. Date: Wednesday, May 13, 2020

School: Glen Avon Elementary

of Shows: 1

of Attendees: 47

8. Date: Thursday, May 21, 2020

School: Freedom Crest Elementary

of Shows: 1

of Attendees: 109

9. Date: Wednesday, May 27, 2020

School: Paloma Elementary

of Shows: 1

of Attendees: 46

10. Date: Thursday, May 28, 2020

School: Sierra Vista Elementary School

of Shows: 1

of Attendees: 155

11. Date: Friday, May 29, 2020

School: Machado Elementary

of Shows: 1

of Attendees: 27

Total Students Reached: 3,547

Testimonials From Western Riverside

“I was very impressed with how the presenter took command of the group. The children were very engaged. The program was very interactive. The pacing was perfect!”

12/16/2019: Michelle Carlisle, 2nd Grade Teacher, Wildomar Elementary

“It was a very entertaining performance filled with lots of fun and excitement.”

12/16/2019: Dr. Scott, Principal, Estudillo Elementary

“Our students are always so excited for the EcoHero show! The simple but fun messages really seem to click and stick. They take those messages back to the classroom and home, helping both to preserve precious natural resources, lower energy bills, and reduce waste. Every school needs this assembly!”

12/17/2019: Emily Brooks, PTA Vice President of Programs, E. Hale Curran Elementary”

“The show was entertaining and full of energy!”

**1/5/2020: Beatriz Chavez, Assistant Principal,
Palm Innovation Academy**

“The information was awesome and I really enjoyed the energy the presenter brought to the presentation.”

1/6/2020: Jessica Jackson, 5th, Palm Innovation Academy



Testimonials From Western Riverside

Live Stream

“I really enjoyed it. It’s probably hard to perform without the energy you receive from a live audience. I would like to schedule this again for when school is in session.”

5/13/2020: Sylvia Bottom, Principal, Glen Avon Elementary

“I think it was great for the kids! They enjoyed having an assembly.”

5/13/2020: Ana Barriga, Grade 1, Glen Avon Elementary

“It was incredibly engaging! I can only imagine how amazing this would be if we were able to safely all be together live. The hosts did a great job!”

5/21/2020: Breanna Williams, 2nd Grade, Freedom Crest Elementary

“Engaging, entertaining and informative.”

5/21/2020: Katie Speed, 1st Grade Teacher, Freedom Crest elementary

“Music seemed to being engaging.”

5/23/2020: Mr. John E. Stephens, 3rd Grade, Freedom Crest Elementary



Testimonials From Western Riverside

“For a virtual assembly, the gals did a great job. It's challenging to keep kids entertained for educational purposes. I noticed that there was close to 50 student in the entire time - no dropouts toward the end. That's impressive!”

5/27/2020: Karen Vogt, 5th Grade , Paloma Elementary

“Very positive and upbeat presentation! Thank you for the positive attitude & mindset!”

5/28/2020: Billie Kerr-Mosher, Assistant Principal , Sierra Vista Elementary

“Great job getting kids to join in by teaching them the dance moves. Love the multimedia approach (singing, Video, dancing). You made it fun, interactive, and interesting for students.”

5/28/2020: Lisa Graham, 5th gr teacher, Sierra Vista Elementary

“I thought it was an engaging show, filled with catchy songs, that helped students learn about ways to be eco friendly.”

5/28/2020: Laura Berry, 2nd Grade, Sierra Vista Elementary

“I really enjoyed the show as a teacher. I'm a song and dance kind of teacher, so the presentation really resonated with me. I would love to continue to use these songs in my classroom moving forward. My students enjoyed the songs and really liked seeing pictures at the end. They liked the chat.”

5/29/2020: Carrie Justvig, K-3 Special Education, Sierra Vista Elementary



Streaming Pivot

Due to Covid 19, we were forced to pilot streaming our assembly live. We were surprised at how effectively our show translated through that medium. We hope to perform live shows again as soon as it is safe but are happy to have been able to stream! Here are pictures from some children we streamed to who sent pics.



Unmeasurable Impact

We compile testimonials from teachers and principals, keep track of the number of students we reach at each school, and get inspired by the groups of children who share with us the action they're taking around litter reduction and recycling in their communities. What's harder to track is the positive impact our shows are making on students long term. Social media has allowed some of that to surface with students now in high school reaching out to us. One of those comments is below from a YouTube video. Thank you for allowing us to reach students like the one below! We are truly grateful for the opportunity.



The Cook 26 minutes ago (edited)

Not sure if you remember me because it was several years ago, but you visited my elementary school called Harloe. I'm now a freshmen at a high school call new tech. I need to give you a lot of credit for how you changed me. Before, I was your average, run of the mill kid crazed about video games. Now I'm part of a student council encouraging community service and aspiring to become a law enforcement ranger of the national park service. It wasn't all you that turned me out to be like this, but you certainly hit the on switch. I have major respect for your work and hope you can spread this knowledge to young students everywhere.

Show less



REPLY



THE ECOHERO SHOW



www.EcoHeroShow.com | ecoheroshow@gmail.com | 888-482-3885

Item 6.E

Environmental Department Programs
Activities Update

Attachment 3

State Route 91 Nomination Package

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The nomination of California State Route 91 for Designation as an Alternative Fuel Corridor

The California Department of Transportation (Caltrans) is pleased to nominate California State Route 91 (SR-91) in Southern California for designation as Alternative Fuel Corridors for both electricity (DCFC) and Hydrogen. We are requesting that the SR-91 corridor defined in this document be considered corridor-ready for both fuel types. This corridor, if designated, would join Interstates 15, 10, 215, and California State Route 60 as Alternative Fuel Corridors in the greater San Bernardino and Riverside region (Inland Empire).

Lead State Agency Originating the Nomination

- California Department of Transportation Headquarters
 - Jannette Ramirez, ZEV Program Lead
Jannette.ramirez@dot.ca.gov
(916) 653-4577

Entities with Jurisdiction Over SR-91

- California Department of Transportation (Caltrans)
- Riverside County Transportation Commission (RCTC)
- Orange County Transportation Agency (OCTA)
- Southern California Association of Governments (SCAG)

Alternative Fuels Projected

- Electric Vehicle Charging (DCFC)
- Hydrogen

The narrative below describes the proposed corridor and provides the information requested in the Federal Highway Administration (FHWA) Request for Nominations Round 4.

Description of the Corridor Proposed: State Route 91 (SR-91)

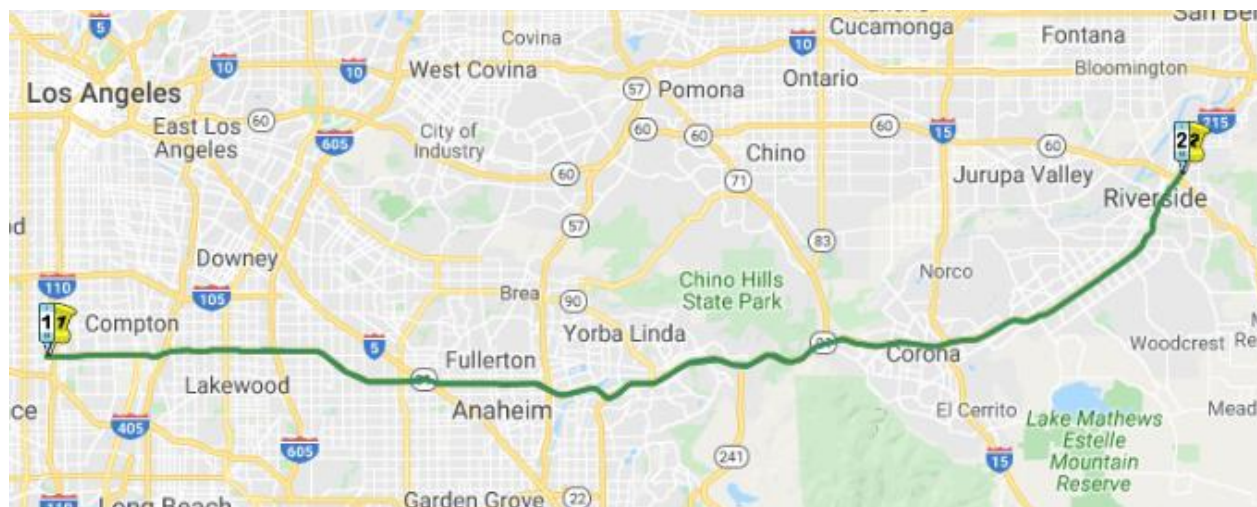
Caltrans nominates the entire length of SR-91 in California, beginning in Los Angeles County and Ending in Riverside County, as corridor-ready for both Electricity and Hydrogen under Section 1413 of the FAST Act. Per FHWA's definition of a corridor, the start and endpoint of the corridor are the designated by the first and last fueling station on the corridor. The proposed corridor begins at a DC FAST charging station in the City of Torrance located at the Del Amo Fashion Center, 3525 Carson St, Torrance, CA 90503. The Del Amo Fashion Center is (4) miles from the highway. The proposed corridor ends at a DC FAST charging station in the City of Riverside located at Greenlots – 33082, 1084 Columbia Ave, Riverside, CA 92507. The Greenlots station is (1) one mile from the highway, extending the length of the corridor to almost 60 miles.

SR-91 is a major east-west State Route that passes through three of the most populated counties in Southern California. SR-91 begins at Vermont Avenue in the city of Gardena in Los Angeles County, passes through Orange County, and ends in Riverside County at the junction with SR-60 and Interstate 215. The 91 corridor is over 59 miles long. We propose that this entire length of corridor be designated. Seven interstates (405, 110, 710, 605, 5, 5, and 215) and nine State Routes (1, 107, 19, 39, 57, 55, 90, 71, and 241) intersect SR-91 along its route. SR-91 includes a four-lane, 18-mile toll road built between the

SR-91/SR-55 interchange and the SR-91/ I-15 interchange. The SR-91 runs through the following sixteen cities:

- Carson
- Torrance
- Gardena
- Compton
- Lakewood
- Norwalk
- Cerritos
- Buena Park
- Fullerton
- Anaheim
- Placentia
- Yorba Linda
- Orange
- Corona
- Riverside

Figure 1: Map of SR-91



Source: Caltrans Postmile Tool

Major Metropolitan Areas Located Along the SR-91 Corridor

The SR-91 corridor passes through three of the largest metropolitan counties in California: Riverside, Los Angeles, and Orange County.

Below are brief descriptions of each county that is along the SR-91 corridor from the west to east:

Los Angeles County: Los Angeles (LA) County is the largest metropolitan county in California, with a population of nearly 10 million and a total area of 4,751 sq. miles. The County is a center for not only culture but also economic and commercial growth. LA County is a major job center consisting of more than 240,000 businesses. It is the nation's top international trade center and manufacturing center. LA County is also a major tourist center consisting of entertainment/music venues, museums, beaches, amusement parks, cultural attractions, and state parks.

Orange County: Orange County is the third-largest metropolitan county of California, with a population of 3.1 million and a total area of 948 sq. miles. Orange County is a tourist center with popular theme parks,

cultural attractions, and beaches that draw in a great deal of traffic. Additionally, it is a major job center that pulls in 185,000 residents daily from LA County and 73,000 residents from Riverside County daily.

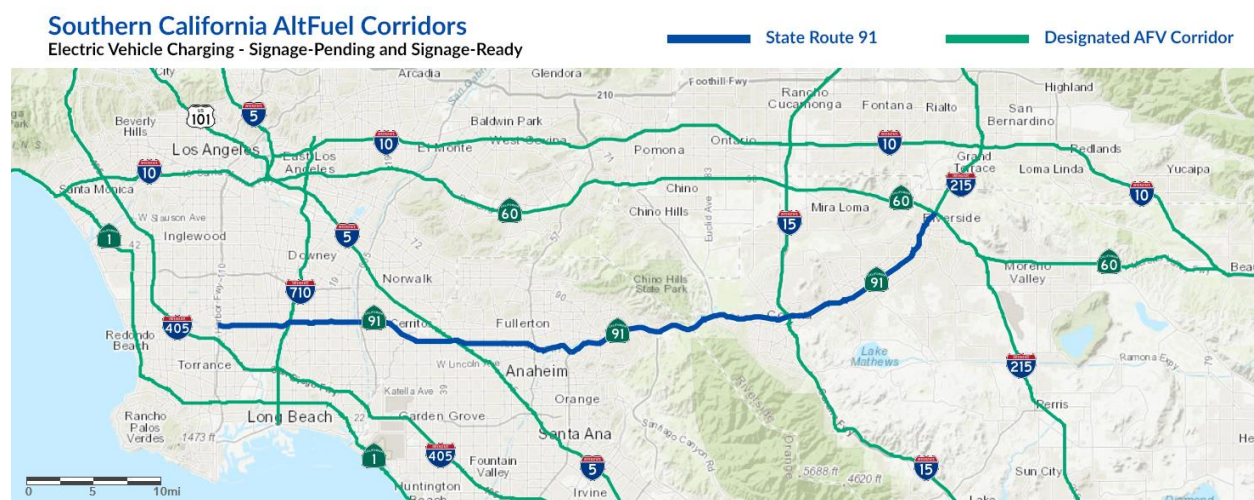
Riverside County: Riverside is the fourth largest county in California with a population of 2.4 million and a total area of 7,303 sq. miles. Riverside County one of the fastest-growing counties in the nation by population and economic growth due to its housing affordability relative to its coastal county counterparts. There are 848,597 housing units in the region and the numbers will continue to rise as more people move into the area. The key industries in the County include logistics, manufacturing, health care, and business and information services.

How SR-91 Contributes to the National Network

One goal of the Fixing America's Surface Transportation Act (FAST Act) is to establish an alternative fuel network that aims to increase the travel reliability of passenger and commercial alternative fuel vehicles. Designating the SR-91 corridor as an Alternative Fuel Corridor establishes connections between corridors that are already a part of the national alternative fuel corridor network, which includes: Interstates 15, 5, 215, and 710, as well as State Route 60. The integration of SR-91 with existing transportation planning processes will help maintain the consistency of signages already placed on established corridors and therefore, alert drivers of the availability of alternative fueling stations.

Because the cost of living in the Inland Empire is comparatively lower than other regions in Southern California, and because Orange and Los Angeles Counties contain major job centers in proximity to the SR-91 corridor, a significant number of commuters live in the Inland Empire and work in other regions, with SR-91 serving as a major commuter route.

Figure 2: Map of Southern California Alternative Fuel Corridors



Why the SR-91 Corridor is Being Proposed for Designation and A Case for a Non-Interstate Highway

The SR-91 corridor ferries commuters through three of the largest counties in California—Los Angeles, Riverside, and Orange. The corridor is 57.9 miles in total length, with 17.3 miles in Los Angeles County, 18.9 miles in Orange County, and 21.7 miles in Riverside County. SR-91 is a heavily traveled commuter corridor that has a high annual average daily traffic ranging from approximately 100,000 to 300,000

vehicles. The annual average daily traffic will continue to increase in the near future as the housing market and the population continues to grow in the Inland region. According to the Riverside County Transportation Commission, the average daily traffic is expected to increase to an estimate of 420,000 vehicles by 2040.

Riverside County is one of the fastest-growing counties in the country. In 2018, Riverside County ranked fifth in the nation for population growth according to the U.S. Census. The County experienced a population increase of 1.1%, with an addition of 33,000 residents. Additionally, a 2016 growth forecast from the Southern California Association of Governments (SCAG) projected a 42 percent increase in population growth between 2012 – 2040. In parallel, SCAG also projected an increase in household growth by 52 percent between 2012 – 2020. The projected growth will further drive up the number of vehicles on the corridor. Between 2011-2015, there was an average of 51,000 Riverside County residents who commuted to Los Angeles County for work and an average of 73,342 Riverside residents who commuted to Orange County for work. The corridor's important linkages between cities makes the SR-91 corridor a great potential for increasing the use of alternative fuels, such as electric and hydrogen.

California is experiencing a growth in both the alternative fuel market and consumer AFV adoption. Accordingly, sufficient fueling and charging opportunities will be needed to keep pace with current and future demands. In 2017, a total of 11,000 alternative fuel vehicles were registered in the California Department of Motor Vehicles database near the east-end of SR-91. Currently, there are a total of 42 DC Fast charging locations with both J1772 combo (CSS) and CHAdeMO connectors, and a total of five hydrogen stations along the corridor. Additional infrastructure and charging stations can be strategically implemented to increase the density of fueling infrastructure along the corridor and to maximize convenience and adoption. Sufficient access to public charging is crucial as more people become interested in adopting AFVs and continue to utilize the corridor for work, travel and recreational purposes.

SR-91 runs through disadvantaged communities that are heavily burdened by pollution. Residents who live near highways are more likely to have higher risks of adverse health risks caused by the high levels of traffic-related air pollution exposure. AFV adoption will play an important role in curbing the health effects of traffic-related pollution as the average daily traffic is expected to increase in the near future.

Type, Number, and Distance Between Existing Alternative Fuel Facilities

1. Electric Charging Stations (DC Fast Chargers)

There are 42 DC fast-charging stations along the SR-91 corridor. All 42 stations provide both CHAdeMO and SAE Combo (CCS) standards. The distance between these electric charging stations ranges from 0.2 miles to 15.4 miles.

2. Hydrogen Fueling Stations

There are 5 hydrogen fueling stations located along the SR-91 corridor. The distance between these hydrogens fueling stations ranges from 5 miles to 27.7 miles.

Starting and End Point of Corridor

- Target T0290
 - 2169 W. Redondo Beach Blvd.
Gardena, CA 90247
- Greenlots – 33082
 - 1084 Columbia Ave
Riverside, CA 92507

Prioritization of EV and Hydrogen Infrastructure along FHWA Designated AFV Corridors

Through the FAST Act, EV and H2 vehicle refueling infrastructure along designated AFV corridors can receive priority consideration for funding through the Congestion Mitigation and Air Quality Improvement (CMAQ) Program. Through annual CMAQ funding cycles, Caltrans will grant priority to eligible proposals providing EV and H2 refueling infrastructure along the corridors, once designated. The CMAQ program is an important mechanism to close gaps and support infrastructure networks allowing more utilization of alternative fuel vehicles and further designation of corridors as signage ready.

How the Gaps Will Be Filled in the 91 Corridor:

WRCOG Alternative Fueling Gaps Analysis

Through the Western Riverside County Clean Cities Coalition (Coalition), the Western Riverside Council of Governments (WRCOG) has compiled data and developed an internal tool that can be used to identify gaps in AFV fueling and charging infrastructure in the Western Riverside County subregion. The tool incorporates consumer AFV adoption data, local jurisdictional and Coalition member AFV fleet data, charging and fueling station location data, and local CalEnviroScreen and California Healthy Places Index data. This information is layered to provide a comprehensive, realistic picture of the AFV vehicle and infrastructure deployment in the subregion. It is used to identify concentrations of vehicles, gaps in infrastructure, and priority areas for future funding and deployment. The tool was also used to provide data for this nomination.

Environmental Mitigation Trust

The VM Mitigation Trust (Trust) is a component of partial settlements with VW resulting from its use of illegal defeat devices – software designed to cheat on emissions tests – in certain 2009 to 2016 model year diesel cars that were sold in California. The Trust provides funding opportunities for specified eligible actions to mitigate the excess nitrogen oxide (NOx) emissions caused by the subject VW vehicles.

In June 2017, the requirements outlined in the Consent Decree, Senate Bill 92 was passed, which directs how California's Mitigation Trust funds are to be spent. The Trust ensures that 35% of California's allocation will benefit low – income or disadvantaged communities that are disproportionately impacted by air pollution. The Trust requires the Lead Agency, California Air Resources Board (CARB) to strive to ensure that the expenditures align with the state's priorities and provide for public transparency before approval. In May 2018 CARB approved the Beneficiary Mitigation Plan that describes California's plan for spending the State's allocation, including the overall goals for the use of the funds, the disadvantaged or low-income communities, the allocations for each proposed category, and the estimated emission reductions.

The Trust allocated \$10 million to Light-Duty Zero-Emission Infrastructure. \$5 M total awards for electric vehicle charging stations. This category is intended to accelerate electric vehicle adoption by expanding and filling gaps in California's charging network. Projects in this category will be selected on a competitive basis and will help meet the fueling needs of the growing electric vehicle fleet. The funds will be used to fill gaps on SR-91 and will target disadvantaged or low-income communities providing 50% of funding towards these areas. The allocation also has \$5 million intended to accelerate fuel cell vehicle adoption by expanding and filling gaps in California's hydrogen fueling network. Funding will be offered as co-funding to projects selected through other solicitations to install hydrogen stations.

Electrify America Cycle 2

Electrify America allocated \$800 million of its \$2 billion investment funds for ZEV infrastructure, education programs and access investments in California. Electrify America plans on investing \$200 million dollars for Cycle 2, July 2019 – December 2021, of its Zero Emission Vehicle Investment Plan. Electrify America is required by the state to allocate 35% of its investment in low-income or disadvantaged communities. Electrify America has chosen the Riverside – San Bernardino (Inland Empire) region to receive Cycle 2 funding. A portion of the \$200 million dollars will focus on developing and installing DC fast chargers for electric vehicles. These charging stations will be accessible to the public 24 hours of the day and will be built in high traffic areas to lower barriers and costs to owning an electric vehicle.

Plan for Signage on the Corridor

The installation of signage along the corridor will be coordinated with Caltrans.

- Include coordination efforts with DOT
 - o Point of contact: Moe Bhuyian, Phone # 1-909-383-4266, email: moe.bhuyian@dot.ca.gov
- Location of starting/ending corridor signage
- Plan for signage approaching exits and beyond off-ramps

Listing of Each Station Along the Highway & Distance between All Stations Along the Corridor

The following tables provide a list of qualifying EV charging and H2 fueling stations along the SR-91 corridor, within 5 miles of the highway centerline. The distance between each station is calculated through AFDC's Corridor Measurement Tool. Each station listed has both CHAdeMO and SAE CCS connector types are no greater than five miles off the highway, and is no greater than 50 miles from another qualifying station site, per infrastructure coverage criteria for "Corridor-Ready" corridors.

Note, however, that stations with a star (*) are listed as qualifying in the AFDC's Corridor Measurement Tool but are either very close to this distance or may be further from the highway depending on the method of measurement.

Electric Stations

Station Name	Address	Type	Distance Between the Two Stations	Distance off the Highway (Eastbound)	Exit Number (Eastbound)	Distance off Highway (Westbound)	Exit Number (Westbound)	Meet Criteria?
Target T0290	2169 W. Redondo Beach Blvd. Gardena, CA 90247	CHAdEMO & SAE CCS		2.6 mi	Vermont Avenue	2.6 mi	Vermont Avenue	Yes
EVSP Torrance	17537 Yukon Ave Torrance, CA 90504	CHAdEMO & SAE CCS	2 mi	2.7 mi	Vermont Avenue	2.7 mi	Vermont Avenue	Yes
EVSP Torrance	4045 190th St Torrance, CA 90504	CHAdEMO & SAE CCS	1 mi	3.9 mi	Vermont Avenue	3.9 mi	Vermont Avenue	Yes
SRH	20300 Hawthorne Blvd Torrance, CA 90503	CHAdEMO & SAE CCS	2 mi	* 6.2 mi	Vermont Avenue	*6.2 mi	Vermont Avenue	Yes
EVSP Torrance	3301 Torrance Blvd Torrance, CA 90503	CHAdEMO & SAE CCS	2 mi	* 6.1 mi	Vermont Avenue	*6.1 mi	Vermont Avenue	Yes
Del Amo Fashion Center	3525 W Carson St Torrance, CA 90503	CHAdEMO & SAE CCS	1 mi	*6.5 mi	Vermont Avenue	*6.5 mi	Vermont Avenue	Yes

Station Name	Address	Type	Distance Between the Two Stations	Distance off the Highway (Eastbound)	Exit Number (Eastbound)	Distance off Highway (Westbound)	Exit Number (Westbound)	Meet Criteria?
EVSP Torrance	2300-2376 Jefferson St Torrance, CA 90501	CHAdEMO & SAE CCS	1.7mi	5.1 mi	Vermont Avenue	5.1 mi	Vermont Avenue	Yes
EVSP Torrance	1334 Post Ave Torrance, CA 90501	CHAdEMO & SAE CCS	1 mi	4.7 mi	Vermont Avenue	4.7 mi	Vermont Avenue	Yes
Walmart	19503 Normandie Ave Torrance, CA 90501	CHAdEMO & SAE CCS	2 mi	1.6 mi	Vermont Avenue	1.6 mi	Vermont Avenue	Yes
Greenlots - 33052	21243 South Avalon Boulevard Carson, CA 90745	CHAdEMO & SAE CCS	3 mi	3.1 mi	Exit 7B - Avalon Blvd	3.3 mi	Exit 7B - Avalon Blvd	Yes
Soledad Center	909 S Central Ave Compton, CA 90220	CHAdEMO & SAE CCS	5 mi	1.4 mi	Exit 8 - Central Ave	1.3 mi	Exit 8 - Central Ave	Yes
Island Pacific Seafood Market	3300 Atlantic Ave Long Beach, CA 90807	CHAdEMO & SAE CCS	11 mi	4.8 mi	Exit 13 - Cherry Ave	4.9 mi	Exit 13 - Cherry Ave	Yes
Lakewood Center Mall	500 Lakewood Center Mall Lakewood, CA 90712	CHAdEMO & SAE CCS	7 mi	2.6 mi	Exit 14 B - Downey Ave	2.5 mi	Exit 15 B - Clark Avenue	Yes

Station Name	Address	Type	Distance Between the Two Stations	Distance off the Highway (Eastbound)	Exit Number (Eastbound)	Distance off Highway (Westbound)	Exit Number (Westbound)	Meet Criteria?
Los Cerritos Center	200 Los Cerritos Mall Cerritos, CA 90703	CHAdemo & SAE CCS	4 mi	2.7 mi	Exit 16 - Bellflower Blvd	2.9 mi	Exit 16 - Bellflower Blvd	Yes
Greenlots - 33042	18201 Studebaker Rd Cerritos, CA 90703	CHAdemo & SAE CCS	1 mi	2.0 mi	Exit 18 - Pioneer Blvd	1 mi	17A - Studebaker Road	Yes
EVgo Charging Station	10930 Rosecrans Ave Norwalk, CA 90650	CHAdemo & SAE CCS	4 mi	2.5 mi	Exit 17 - I-605 N/ I-605 S	2.1 mi	Exit 17 A - Studebaker Road	Yes
Downey Promenade	8830 Apollo Way Downey, CA 90242	CHAdemo & SAE CCS	4 mi	3.7 mi	Exit 15 - Lakewood Boulevard/ CA-19	3.8 mi	Exit 15A - Lakewood Boulevard/ CA-19	Yes
Walmart 4132 - Downey, CA	9001 Apollo Way Downey, CA 90242	CHAdemo & SAE CCS	.7mi	4.4 mi	Exit 16 - Bellflower Blvd	3.8 mi	Exit 15 B - Clark Ave	Yes
Stonewood Center	306 Stonewood St Downey, CA 90241	CHAdemo & SAE CCS	2 mi	*5.3 mi	Exit 17 - I-605 N	*5.2 mi	Exit 15 B - Clark Ave	Yes
BP City Hall	8152 Knott Ave Buena Park, CA 90620	CHAdemo & SAE CCS	12 mi	1.4mi	Exit 23A - Knott Ave	1.6 mi	Exit 23A - Knott Ave	Yes

Station Name	Address	Type	Distance Between the Two Stations	Distance off the Highway (Eastbound)	Exit Number (Eastbound)	Distance off Highway (Westbound)	Exit Number (Westbound)	Meet Criteria?
BP City Hall	8152 Knott Ave Buena Park, CA 90620	CHAdemo & SAE CCS	2 mi	1.4mi	Exit 23A - Knott Ave	1.6 mi	Exit 23A - Knott Ave	Yes
BP City Hall	7871 Pinchot Ct Buena Park, CA 90621	CHAdemo & SAE CCS	2 mi	.8 mi	Exit 23B - Beach Blvd/ CA-39 Buena Park	1.0 mi	Exit 23B - Beach Blvd/ CA-39 Buena Park	Yes
Walmart	1340 S Beach Blvd La Habra, CA 90631	CHAdemo & SAE CCS	4 mi	*5.2 mi	Exit 23B - Beach Blvd/ CA-39 Buena Park	*5.1 mi	Exit 23B - Beach Blvd/ CA-39 Buena Park	Yes
Brookhurst Community Center	2271 W Crescent Ave Anaheim, CA 92801	CHAdemo & SAE CCS	8 mi	2.3 mi	Exit 24	2.3 mi	Exit 23C - Magnolia Avenue	Yes
H&S Energy	700 N Brookhurst St Anaheim, CA 92801	CHAdemo & SAE CCS	0.2mi	1.2 mi	Exit 26 - Brookhurst St	1.3 mi	Exit 26 - Brookhurst St	Yes
Walmart	11822 Gilbert St Garden Grove, CA 92841	CHAdemo & SAE CCS	4 mi	4.9 mi	Exit 26 - Brookhurst St	5 mi	Exit 26 - Brookhurst St	Yes
Anaheim Plaza	510 N Euclid St Anaheim, CA 92801	CHAdemo & SAE CCS	5 mi	1.3 mi	Exit 27 - Euclid St	1.4 mi	Exit 27 - Euclid St	Yes
Outlets at Orange	20 City Blvd W Orange, CA 92868	CHAdemo & SAE CCS	6 mi	*6.6mi	Exit 30B (SR 57)- eastbound	*6.3 mi	Exit 31	Yes

Station Name	Address	Type	Distance Between the Two Stations	Distance off the Highway (Eastbound)	Exit Number (Eastbound)	Distance off Highway (Westbound)	Exit Number (Westbound)	Meet Criteria?
Greenlots - 43100	2626 East Katella Avenue Anaheim, CA 92806	CHAdemo & SAE CCS	3 mi	3.9 mi	Exit 30B (SR 57)- eastbound	4.8 mi	Exit 30 - State College Blvd	Yes
H&S Energy	3085 E La Palma Ave Anaheim, CA 92806	CHAdemo & SAE CCS	5 mi	1 mi	Exit 31	0.5 mi	Exit 32 - Kraemer Blvd	Yes
Brea Mall	1065 Brea Mall Brea, CA 92821	CHAdemo & SAE CCS	7 mi	4.7 mi	Exit 30A - State College Blvd	4.6 mi	Exit 30 - State College Blvd	Yes
WCH POWER 1	8323 E La Palma Ave Yorba Linda, CA 92887	CHAdemo & SAE CCS	14 mi	1.1 mi	Exit 39 - Weir Canyon Rd	.9 mi	Exit 39 - Weir Canyon Rd	Yes
Savi Ranch Center	23036 Eastpark Drive Yorba Linda, CA 92887	CHAdemo & SAE CCS	1 mi	1.5 mi	Exit 39 - Weir Canyon Rd	1.2 mi	Exit 39 - Weir Canyon Rd	Yes
Arco	800 Serfas Club Dr Corona, CA 92882	CHAdemo & SAE CCS	10 mi	.5 mi	Exit 47 - Serfas Club Dr	0.4 mi	Exit 47 - Serfas Club Dr	Yes
Coronasun	1390 W 6th St Corona, CA 92882	CHAdemo & SAE CCS	3 mi	1.2	Exit 49 - Lincoln Ave	1.2 mi	Exit 49 - Lincoln Ave	Yes
COC EV CHARGING	324-374 S Vicentia Ave Corona, CA 92882	CHAdemo & SAE CCS	1 mi	1 mi	Exit 50 - Main Street	1 mi	Exit 50 - Main Street	Yes

Station Name	Address	Type	Distance Between the Two Stations	Distance off the Highway (Eastbound)	Exit Number (Eastbound)	Distance off Highway (Westbound)	Exit Number (Westbound)	Meet Criteria?
COC EV CHARGING	735 Public Safety Way Corona, CA 92880	CHAdEMO & SAE CCS	1 mi	1.2 mi	Exit 50 - Main Street	1.2 mi	Exit 50 - Main St	Yes
Walmart	1290 E Ontario Ave Corona, CA 92881	CHAdEMO & SAE CCS	6 mi	3.6	Exit 50 - Main Street	3.6 mi	Exit 50 - Main St	Yes
Corona Hills Plaza	360 N McKinley St Corona, CA 92879	CHAdEMO & SAE CCS	5 mi	0.6 mi	Exit 53 - McKinley St	0.6 mi	Ext 53B - McKinley St N	Yes
Walmart	5200 Van Buren Blvd Riverside, CA 92503	CHAdEMO & SAE CCS	7 mi	3.6 mi	Exit 59 - Adams Street, Auto Center Drive	3.4 mi	Exit 58 - Van Burn	Yes
Greenlots - 43108	3900 N Main St Riverside, CA 92522	CHAdEMO & SAE CCS	8 mi	1 mi	Exit 64 - University Ave	0.7 mi	Exit 64 - Mission Inn	Yes
Greenlots - 33082	1084 Columbia Ave Riverside, CA 92507	CHAdEMO & SAE CCS	3 mi	1 mi	Exit 35 - Columbia	2.6 mi	Exit 34C - Pomona Fwy	Yes

Hydrogen Stations

Station Name	Address	Distance Between the Two Stations	Distance off the Highway (Eastbound)	Exit Number (Eastbound)	Distance off Highway (Westbound)	Exit Number (Westbound)	Meet Criteria?
Air Products and Chemicals Inc - Lawndale	15606 Inglewood Ave Lawndale, CA 90260		5.2 mi	Artesia Blvd	n/a	n/a	Yes
Shell - Torrance	2051 W 190th St Torrance, CA 90501	4 mi	2.6 mi	S Vermont Ave	n/a	n/a	Yes
FirstElement - Long Beach	3401 Long Beach Blvd Long Beach, CA 90807	9 mi	4.4 mi	Exit 12B - I-710S	4.1 mi	Exit 11 - Long Beach Blvd	Yes
Air Liquide - Anaheim	3731 E La Palma Ave Anaheim, CA 92806	54 mi	0.8 mi	Exit 33 - Tustin Ave	.5 mi	Exit 33 - Tustin Ave	Yes
City of Riverside - ITM Power	3044 St. Lawrence St Riverside, CA 92504	28 mi	1.2 mi	Exit 51 - Adams St / Auto Center Dr	1.2 mi	Exit 51 - Adams St / Auto Center Dr	Yes

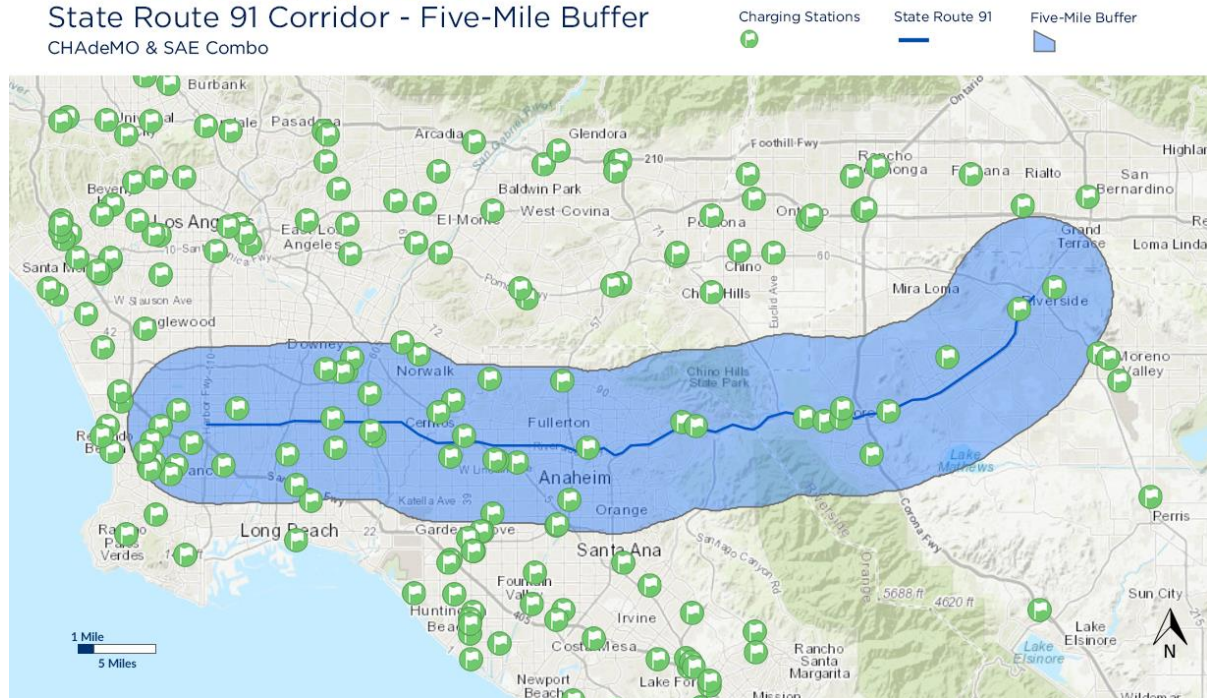
Station Proximity Maps – Entire Corridor

The following maps depict EV charging and hydrogen fueling along the entire proposed SR-91 AFV corridor, within 5 miles of the highway centerline. Station data is sourced from the Department of Energy Alternative Fuel Data Center (AFDC).

EV Fast Charging Stations

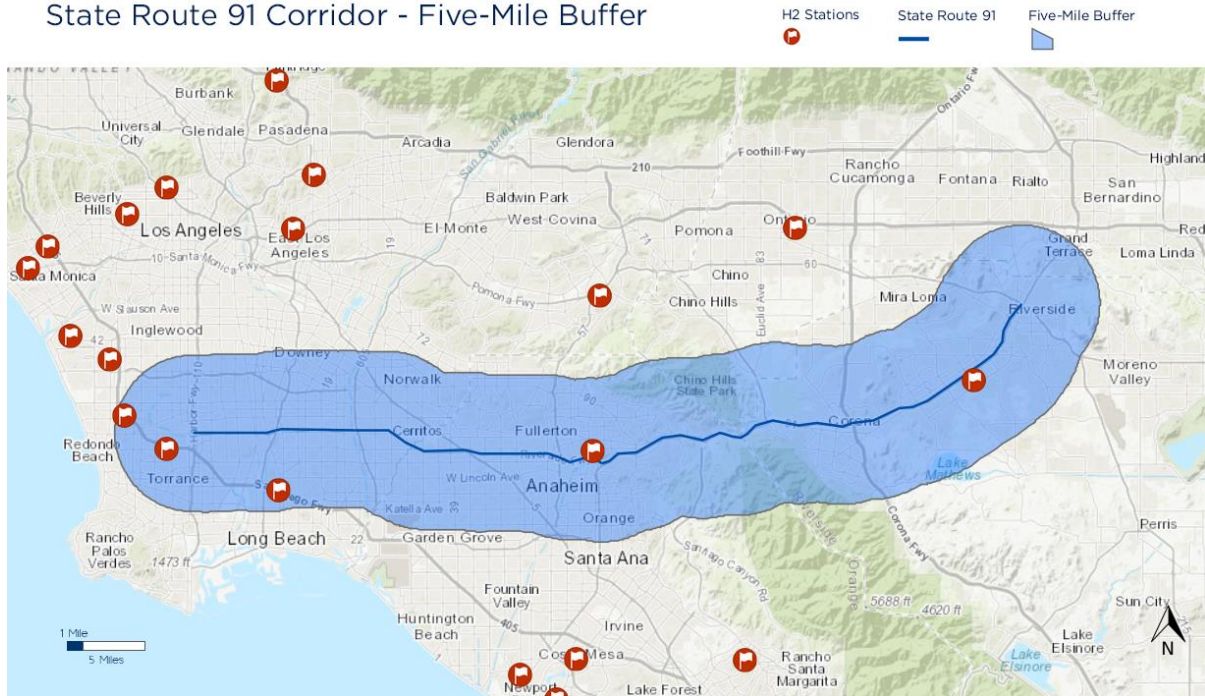
State Route 91 Corridor - Five-Mile Buffer

CHAdemo & SAE Combo



Hydrogen Stations

State Route 91 Corridor - Five-Mile Buffer



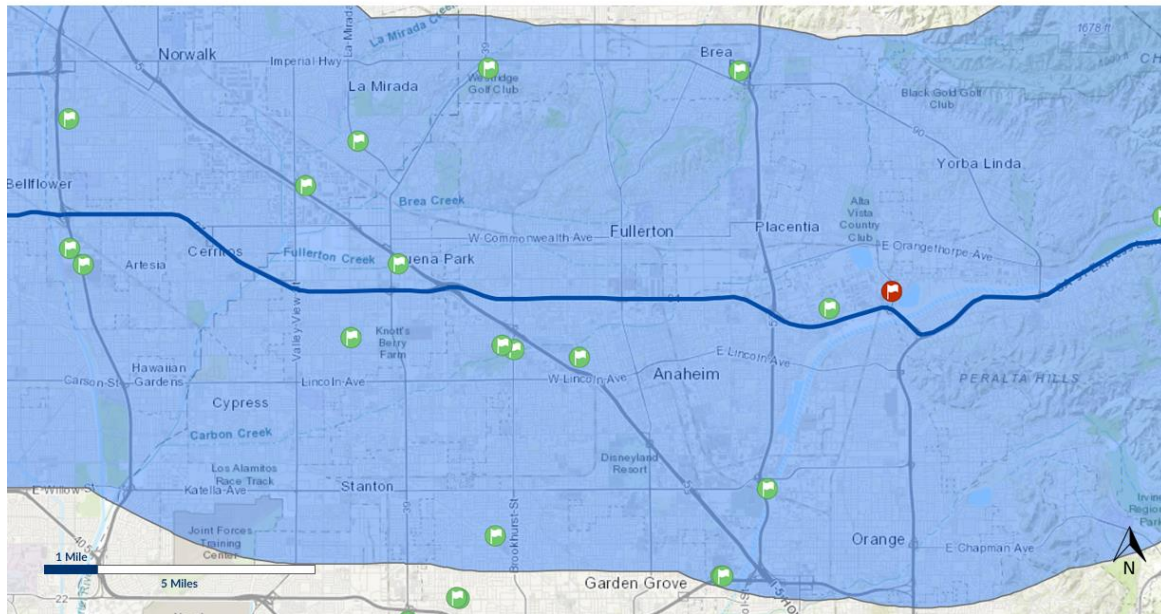
Station Proximity Maps – County Specific

The following maps depict EV charging and hydrogen fueling focused in each county containing a portion of the proposed SR-91 AFV corridor, within 5 miles of the highway centerline. Station data is sourced from the Department of Energy Alternative Fuel Data Center (AFDC).

EV Fast Charging & H2 Stations - Orange County

State Route 91 Corridor - Five-Mile Buffer
CHAdEMO & SAE Combo

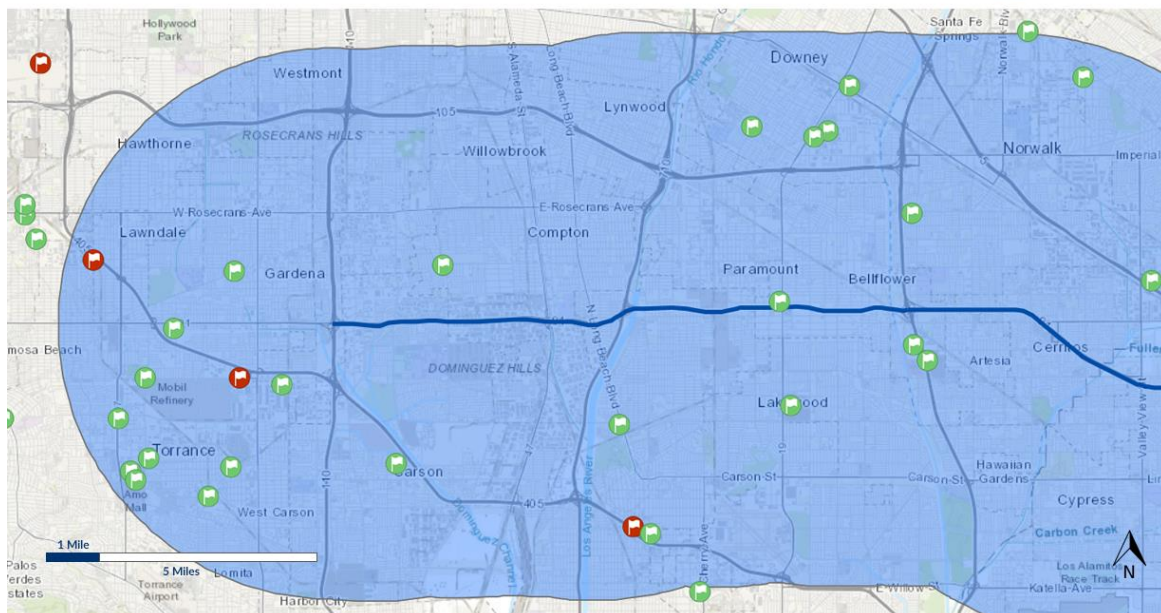
Charging Stations H2 Stations SR91 Five-Mile Buffer



EV Fast Charging & H2 Stations - Los Angeles County

State Route 91 Corridor - Five-Mile Buffer
CHAdEMO & SAE Combo

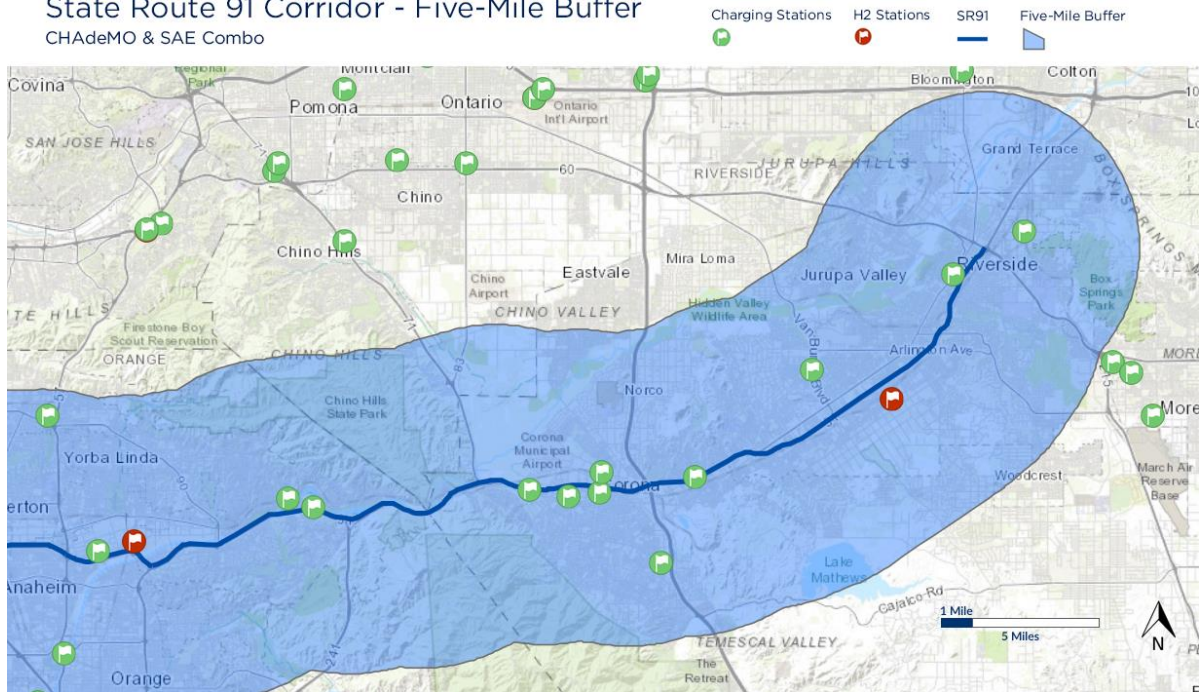
Charging Stations H2 Stations SR91 Five-Mile Buffer



EV Fast Charging & H2 Stations - Riverside County

State Route 91 Corridor - Five-Mile Buffer

CHAdEMO & SAE Combo



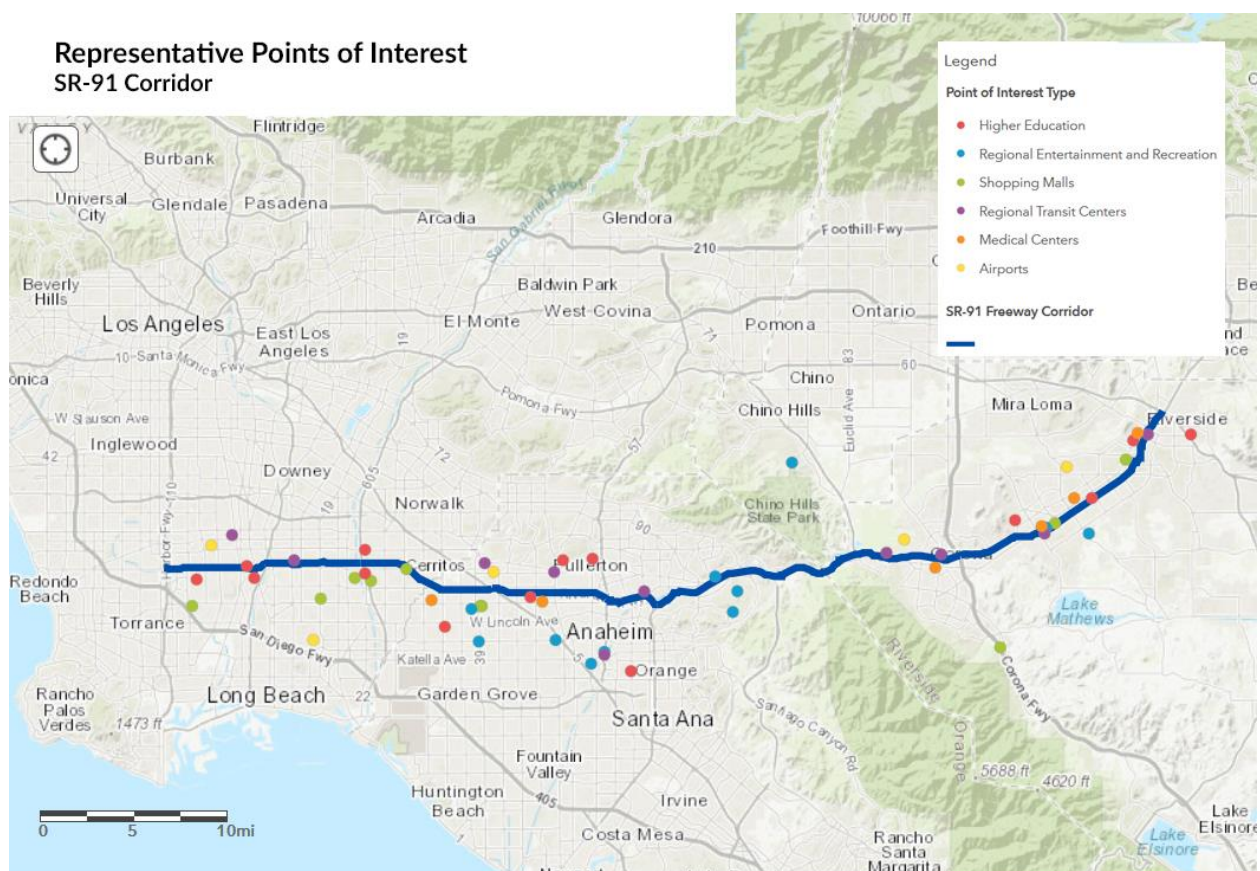
Points of Interest Along SR-91

In addition to its value as a commuter corridor, SR-91 provides access to points of interest (POIs) and recreational opportunities that are often accessed by car. Visitors to these POIs often stay for extended periods of time, creating opportunities for effective EV charging. The table below provides a list of facilities by the city. Note that this list is meant to provide a representative sample of POIs and does not include a comprehensive inventory.

City	Point of Interest	Address
Shopping Malls		
Carson	SouthBay Pavilion	20700 S. Avalon Blvd
Lakewood	Lakewood Center Mall	500 Lakewood Center Mall
Cerritos	Plaza 183	183 rd St.
	Cerritos Promenade	11471 Gridley Rd.
	Cerritos town Center	12731 Towne Center Dr.
Buena Park	Buena Park Downtown	8354 On the Mall
	Buena Park Place	8308 On the Mall
Corona	Shops at Dos Lagos	2780 Cabot Dr.
Riverside	Galleria at Tyler	1299 Galleria at Tyler
	Riverside Plaza	3639 Riverside Plaza Dr.
	Main Street Pedestrian Mall	Main Street between 6 th St. and 9 th St.
Higher Education		
Carson	California State University, Dominguez Hills	1000 E. Victoria

City	Point of Interest	Address
Compton	Compton College	1111 E. Artesia Blvd.
Long Beach	Long Beach Bible Colleges	135 W. Victoria St.
Norwalk	Cerritos College	11110 Alondra Blvd.
Cerritos	Fremont College	18000 Studebaker Rd.
Cypress	Cypress College	9200 Valley View St.
Anaheim	North Orange County Community College	1830 W. Romneya Dr.
Fullerton	Fullerton College	321 E. Chapman Ave.
	California State University, Fullerton	800 N. State College Blvd.
Orange	Chapman University	1 University Dr.
Riverside	La Sierra University	4500 Riverwalk Parkway
	California Baptist University	8432 Magnolia Ave.
	Riverside Community College	4800 Magnolia Ave.
	University of California, Riverside	900 University Ave.
Regional Entertainment and Recreation Centers		
Buena Park	Knotts Berry Farm	8039 Beach Blvd.
	Adventure City	1238 S. Beach Blvd.
Anaheim	Disneyland	1313 Disneyland Dr.
	Honda Center	2695 E. Katella Ave.
	Angel Stadium	2000 E. Gene Autry Way
	Yorba Regional Park	7600 E. La Palma Ave.
	Oak Canyon Nature Center	6700 E. Walnut Canyon Rd.
	Deer Canyon Park	7502 E. Hollow Oak Rd.
Chino Hills	Chino Hills State Park	4721 Sapphire Rd.
Riverside	California Citrus State Historic Park	9400 Dufferin Dr.
	Castle Park	3500 Polk St.
Airports		
Compton	Compton/Woodley Airport	901 W. Alondra Blvd.
Long Beach	Long Beach Airport	4100 Donald Douglas Dr.
Fullerton	Fullerton Municipal Airport	4011 W. Commonwealth Ave.
Corona	Corona Municipal Airport	1900 Aviation Dr.
Riverside	Riverside Municipal Airport	6951 Flight Rd.
Regional Transit Centers		
Compton	MLK Transit Center	404 N. Tamarind Ave.
Long Beach	Jackson Transit Center	6860 Cherry Ave.
Buena Park	Buena Park Metrolink Station	8400 Lakeknoll Dr.
Fullerton	Fullerton Transit Center	120 E. Santa Fe Ave.
Anaheim	Anaheim Regional Transportation Intermodal Center (ARTIC)	2626 E. Katella Ave.
	Anaheim Canyon Metrolink Station	1039 N. Pacific Center Dr.

City	Point of Interest	Address
Corona	West Corona Metrolink Station	155 Auto Center Dr.
	Corona Transit Center	250 E. Blaine St.
Riverside	La Sierra Metrolink Station	10901 Indiana Ave.
	Riverside Downtown Metrolink Station	4066 Vine St.
Medical Centers		
La Palma	La Palma Intercommunity Hospital	7901 Walker St.
Anaheim	Anaheim Regional Medical Center	1111 W. La Palma Ave.
Corona	Corona Regional Medical Center	800 S. Main Street
Riverside	Kaiser	10800 Magnolia Ave.
	Parkview Community Hospital	3865 Jackson St.
	Riverside Community Hospital	4445 Magnolia Ave.



TUMF Study of infrastructure growth in 5 years

- WRCOG developed and administers the Transportation Uniform Mitigation Fee (TUMF), a program that ensures that new development pays its fair share for the increased traffic that it creates. The TUMF will raise over \$3 billion for transportation projects in Western Riverside County.
- Over the previous five years of development (Single-family, Multifamily, Industrial Retail, and Service) has been steadily increasing in Riverside County. This increase of development shows significant growth adding to the already largest metropolitan areas in Southern California.
- Below is a table showing the TUMF revenue with estimated permits issued. Since 2014 a total of 23,024 permits have been issued for development plans with total revenue of \$266,923,284. The increase in growth has resulted in an increase in traffic on the already heavily used SR-91. install stations to fill gaps incentivizing traffic flow to rapidly growing development projects.

TUMF Fees	FY13/14					TOTAL
	SF	MF	Industrial	Retail	Service	
All Zones	\$ 8,873.00	\$ 6,231.00	\$ 1.73	\$ 10.49	\$ 4.19	
Permits Issued						Total Permits
Total Permits	1,821	281				2101
Square Footage Built						Total SqFt
Total Sqaure Feet			1,242,931	396,902	85,772	1,725,605

TUMF Fees	FY14/15					TOTAL
	SF	MF	Industrial	Retail	Service	
All Zones	\$ 8,873.00	\$ 6,231.00	\$ 1.73	\$ 10.49	\$ 4.19	
Permits Issued						Total Permits
Total Permits	2,360	1,199				3560
Square Footage Built						Total SqFt
Total Sqaure Feet			3,045,491	265,173	269,918	3,580,582

TUMF Fees	FY15/16					TOTAL
	SF	MF	Industrial	Retail	Service	
All Zones	\$ 8,873.00	\$ 6,231.00	\$ 1.73	\$ 10.49	\$ 4.19	
Permits Issued						Total Permits
Total Permits	2,916	1,032				3948
Square Footage Built						Total SqFt
Total Sqaure Feet			2,906,471	366,654	691,077	3,964,201

TUMF Fees	FY16/17					TOTAL
	SF	MF	Industrial	Retail	Service	
All Zones	\$ 8,873.00	\$ 6,231.00	\$ 1.73	\$ 7.50	\$ 4.19	
Permits Issued						Total Permits
Total Permits	3,179	450				3,629
Square Footage Built						Total SqFt
Total Sqaure Feet			4,089,710	479,982	512,886	5,082,578

TUMF Fees	FY17/18					TOTAL
	SF	MF	Industrial	Retail	Service	
All Zones	\$ 8,873.00	\$ 6,134.00	\$ 1.77	\$ 7.50	\$ 4.56	
Permits Issued						Total Permits
Total Permits	3,580	557				4137
Square Footage Built						Total SqFt
Total Sqaure Feet			6,083,631	622,387	613,916	7,319,933

TUMF Fees	FY18/19					TOTAL
	SF	MF	Industrial	Retail	Service	
All Zones	\$ 8,873.00	\$ 6,134.00	\$ 1.77	\$ 7.50	\$ 4.56	
Permits Issued						Total Permits
Total Permits	3659	1990				5649
Square Footage Built						Total SqFt
Total Sqaure Feet			7,540,010	428,260	482,308	8,450,578

Data:

Traffic data:

<https://dot.ca.gov/programs/traffic-operations/census/traffic-volumes/2017/route-87-91>

<https://www.rctc.org/projects/sr91-project/>

Census data:

<https://www.census.gov/newsroom/press-releases/2019/estimates-county-metro.html?cid=CBSM>

<https://www.census.gov/data/tables/time-series/demo/commuting/commuting-flows.html>

Consumer AFV adoption data:

CA Department of Motor Vehicles

Station Location Data:

<https://afdc.energy.gov/stations/#/find/nearest>