

Valley – Ivyglen Subtransmission Project CPUC Minor Project Refinement Form

Minor project refinements are strictly limited to changes that will not trigger an additional permit requirement (except local government ministerial permits and associated requirements), do not substantially increase the severity of a previously identified significant impact based on criteria used in the FEIR, create a new significant impact, are located within the geographic boundary of the study area of the FEIR, and that don't conflict with any mitigation measure or applicable law or policy.

Date Requested: 10/01	/2020	Report No.: [CPUC Compliance Manager fills in]	
Date Approved: [date C approved form back to a Anticipated Start Date	CPUC Compliance Manager sends the pplicant] for Proposed Action: 11/10/2020	Approval Agency: N/A Anticipated End Date for Proposed Action: 3/01/2022	
Property Owner(s): SC Public Right of Way	E easements over private property and	Location/Milepost: Multiple locations throughout Segments VIG4-VIG8 as described below.	
Land Use/Vegetative C biological report.	over: Various; as described in attached	Sensitive Resources: Disturbed Riversidean sage scrub as described in attached biological report.	
Modification From:	Permit Plan Mitigation Measure Other:	ı/Procedure 🗌 Specification 🗌 Drawing	

Describe the proposed minor Project refinement, including how project refinement deviates from current project and an explanation for why the refinements are necessary:

Proposal to Expand the Boundaries of the General Disturbance Area:

According to Section 2.4.2.3 of the FEIR, the total general disturbance area analyzed for the Valley-Ivyglen 115-kV Project was intended to be large enough to ensure flexibility during construction and final siting of the proposed 115-kV facilities. Nevertheless, at several locations, work areas, or portions of work areas necessary to perform the work are outside of the general disturbance area for the Project as depicted in the biological resource maps (Attachment A) and described in Table 1. We propose to expand the general disturbance area so that the construction activities described in Section 2.3.1.1 of the FEIR can be performed within work areas of the size identified in Table 2-5 of the FEIR as being necessary to construct the Project components.

Proposal for Additional Work Areas and Disturbances:

Table 2 describes proposed additional work areas and land disturbances that were not included in NTPR-2 but are necessary to construct the Project work as described in Section 2.3.1.1 of the FEIR. The proposed

work areas are within the general disturbance area of the Valley-Ivyglen 115-kV Project and are of the size described in Table 2-5 of the FEIR as being necessary to construct the Project components.

The primary activities to be conducted at the proposed work areas would include installation of TSPs, LWS poles, wood poles, guard poles, guy poles, guy anchors, conductor, fiber optic, a telecommunication vault, and the transfer of distribution conductor from existing poles to the new 115-kV structures. Construction of these components would be accomplished in a manner consistent with the descriptions contained in the following VIG FEIR Sections: 2.4.5.4, 115-kV Structure Construction; 2.4.5.6, Wire Stringing; and 2.4.7.1, Fiber Optic Line Installation. Site preparation activities would include vegetation clearing, improvement/construction of access roads and work areas, and installation of Stormwater Pollution Prevention Plan (SWPPP) best management practices (BMPs).

Proposal to Revise Telecommunications Fiber Optic Line in VIG7 – De Palma Road:

A portion of the telecommunications fiber optic line for Segment VIG7 is licensed to be installed underground along De Palma Road as described in the FEIR (Section 2.3.1.2). SCE is proposing to instead install 955 feet of fiber optic line overhead on existing electrical utility poles along the south side of De Palma Road, and across De Palma Road to an existing structure on the north side. The utility poles were not present at the time the FEIR was prepared. Approximately 430 feet of undergrounding would still be necessary to take the fiber from the westernmost distribution pole on the north side of De Palma Road to the existing vault at the southern end of VIG8. All work would occur within the general disturbance area (Figure 1). The proposed overhead configuration is preferred by Riverside County because it eliminates the need to place the fiber optic line in/on the Indian Wash Bridge, thereby avoiding relocation of the line during future bridge widening.



Figure 1. Proposed Re-route of VIG7 Fiber Optic Line from Underground to Overhead.

Following the completion of all construction, sites would be restored/reclaimed in accordance with the Project SWPPPs, Project Commitment D, and the VIG Habitat Restoration and Revegetation Plan.

Environmental impact analysis for use of the above described areas was conducted as part of this MPR and is provided in the attached biological (Attachment A), cultural (Attachment B), and paleontological reports (Attachment C).

Describe the dimensions and area of any additional work areas and land disturbance associated with the proposed refinements. Include/attach photos, maps, or other documentation illustrating the existing conditions in the area:

The proposed expansion of the general disturbance area, additional work areas and disturbances would encompass 6.32 acres of work area in Segments VIG4–VIG8. The locations, dimensions, and activities to occur at each site is provided in Tables 1 and 2 and are visually shown in the biological resources maps (Attachment A).

Segment	Pole / Feature Name	Nearest Structure	Latitude	Longitude	Description	Activity
VIG4	Access Road	360E	N/A	N/A	~1,150 square feet of permanent disturbance for an increase in width of a Level 5 road northwest of 360E.	Improvement of road for future SCE maintenance.
VIG4	Anchor Site	390E	33.69884	-117.35744	~265 square feet of temporary work area for pole 390E.	Installation of guy anchor for the stability of 390E.
VIG5	TBD Pole	419E	33.70572	-117.37086	~105' northeast of 419E. ~227 square feet of temporary work area for an existing wood pole.	Transfer distribution line to 115-kV pole and remove existing wood pole.
VIG5	Access Road	453E– 456E	N/A	N/A	0.33 miles (1,745 feet) of Level 0 access roads on existing roads, to the west of the right-of-way, leading from 453E to 454E– 456E.	Access to 454E-456E.
VIG5	453E	453E	33.71527	-117.38544	~17,000 square feet of temporary work area for 453E. Part of the West of the Lake Street Option described in FEIR.	Installation of structure 453E and 915' of conductor between 453E and 457E.
VIG5	454E	454E	33.71583	-117.38585	~11,500 square feet of temporary work area for 454E. 3.14 square feet of permanent disturbance for a LWS pole. Part of the West of Lake Street Option described in FEIR.	Installation of structure 454E and 915' of conductor between 453E and 457E.
VIG5	455E	455E	33.71639	-117.38626	~18,285 square feet of temporary work area for 455E. 3.14 square feet of permanent disturbance for a LWS pole. Part of the West of Lake Street Option described in FEIR.	Installation of structure 455E and 915' of conductor between 453E and 457E.
VIG5	456E	456E	33.71682	-117.38657	~27,175 square feet of temporary work area for 456E. 28.3 square feet of permanent disturbance for a TSP. Part of the West of Lake Street Option described in FEIR.	Installation of structure 456E and 915' of conductor between 453E and 457E.
VIG5	4106977E	481E	33.72759	-117.39497	~580' west of 481E. ~1,000 square feet of temporary work area for an existing wood pole.	Modification of existing wood pole.
VIG5	4106980E	481E	33.72759	-117.39497	~740' west of 481E. 2,500 square feet of temporary work area for an existing wood pole.	Modification of existing wood pole.
VIG5	2112520E	500E	33.7316	-117.40298	95 feet south of 500E. 2,500 square feet of temporary work area for an existing wood pole.	Modification of existing wood pole.
VIG5	Anchor Site	500E	33.73150	-117.40300	area for an existing wood pole. 120 feet south of 500E. 625 square feet of temporary work area for a new guy anchor for 2112520E.	

Table 1: VIG4–VIG8 Areas to be Added to General Disturbance Area

VIG5	Access Road	500E	N/A	N/A	60 feet southeast of 500E. ~40 feet of Level 0 access road from Temescal Canyon Road to the existing wood pole, 2112520E.	Travel on an existing gravel access route.
VIG5	212317S	FIG 2185E	33.73403	-117.40630	87 feet north of FIG-2185E. 1,225 square feet of temporary work area for existing wood pole.	Modification of an existing wood pole.
VIG5	Anchor Site	FIG 2187E	33.73406	-117.40750	625 square feet of temporary work area for a new guy anchor for FIG-2187E.	Installation of guy anchor for stability of FIG 2187E.
VIG5	4065796E	FIG 2195E	33.73380	-117.41348	138 feet southwest of FIG-2195E. ~1,450 square feet of temporary work area for an existing wood pole and new guy anchor	Modification of an existing wood pole and installation of a guy anchor for pole stability.
VIG6	Access Road	533E	N/A	N/A	530 feet southwest of 533E. ~3,860 square feet of temporary disturbance associated with an existing Level 2 access road leading from Horse Thief Canyon Road to 531E-533E.	Improvement of road for future SCE maintenance.
VIG7	Access Road	535E	N/A	N/A	240 feet southwest of 535E. 41 linear feet and ~770 square feet of permanent disturbance for the construction of a Level 5 road to 534E and 535E.	Improvement of road for future SCE maintenance.
VIG7	Access Road	539E– 540E	N/A	N/A	~2,060 square feet of permanent disturbance for the construction of a Level 5 road between 539E and 540E.	Improvement of road for future SCE maintenance.
VIG8	V5532167	V5532167	33.74748	-117.45506	At the corner of Indian Truck Trail and De Palma Road. ~380 square feet of temporary work area and 25 square feet of permanent disturbance for a telecommunication vault	Access to telecommunication vault during installation of fiber optic line in existing conduit.

Table 2: VIG4–VIG8 Additionally Requested Work Areas Within the General Disturbance Area

Segment	Pole / Feature Name	Nearest Structure	Latitude	Longitude	Description	Activity
VIG4	TBD Pole	367E	33.69199	-117.34955	~60 feet southwest of 367E. ~475 square feet of temporary work area for an existing wood pole.	Transfer distribution line to 115-kV pole and remove existing wood pole.
VIG4	Access Road	390E	N/A	N/A	40 feet of Level 1 access road for overland travel from Baker St. to the guy anchor work area at 390E.	Access to anchor work area.
VIG4	TBD Pole	391E	33.69863	-117.37566	30 feet south of 391E. 1,225 square feet of temporary work area for an existing wood pole.	Transfer distribution line to 115-kV pole and remove existing wood pole.
VIG4	Access Road	391E	N/A	N/A	210 feet of Level 1 access road for travel on a driveway to an existing wood pole south of 391E.	Access to existing wood pole.
VIG4	Access Road	392E	N/A	N/A	48 feet of Level 1 access road to a guy anchor work area at 392E.	Access to anchor work area.
VIG4	TBD Pole	394E	33.70006	-117.35946	~110 feet northwest of 394E. 1,225 square feet of temporary work area for an existing wood pole.	Transfer distribution line to 115-kV pole and remove existing wood pole.
VIG4	4106903	405E	33.70433	-117.35247	530 feet northeast of 405E. 1,225 square feet of temporary work area for an existing wood pole.	Modification of an existing wood pole.

VIG4	4106904	405E	33.70400	-117.36298	333 feet northeast of 405E. 1,105 square feet of temporary work area for an existing wood pole and ~417 square feet of temporary work area for a new guy anchor for 4106904E.	Modification of an existing wood pole and installation of a guy anchor for pole stability.
VIG4	4106907	405E	33.70300	-117.36453	260 feet southwest of 405E. 1,225 square feet of temporary work area for an existing wood pole and 625 square feet of temporary work area for a guy anchor for 4106907E.	Modification of an existing wood pole and installation of a guy anchor for pole stability.
VIG4	4106908	405E	33.70266	-117.36505	460 feet southwest of 405E. 1,225 square feet of temporary work area for an existing wood pole.	Modification of an existing wood pole.
VIG4	Access Road	405E	N/A	N/A	170 feet of Level 0 access road from 4106907E to 4106908E.	Access along existing road to work area.
VIG5	Access Road	412E	N/A	N/A	110-foot long Level 1 overland travel route to reach an existing distribution pole.	Transfer distribution line to 115-kV pole and remove existing wood pole.
VIG5	Culvert	413E	N/A	N/A	~128 square feet of permanent ground disturbance for the installation of a 24" culvert and rip rap on the access road located northwest of 413E.	Installation of culvert and rip rap as part of road improvement for future SCE maintenance.
VIG5	Access Road	413E- 422E	N/A	N/A	1,790 feet of Level 5 access road between 413E and 422E. ~21,480 square feet of permanent disturbance. 29,160 square feet of temporary disturbance.	Construction of road for access to 413E-422E and future SCE maintenance.
VIG5	Access Road	414E	N/A	N/A	45 feet northeast of 414E. 35-foot long Level 1 overland travel route to reach an existing distribution pole.	Access to an existing wood pole.
VIG5	Access Road	415E	N/A	N/A	60 feet northeast of 415E. 24-foot long Level 1 overland travel route to reach an existing distribution pole.	Access to an existing wood pole.
VIG5	Access Road	416E	N/A	N/A	80 feet northeast of 416E. 30-foot long Level 1 overland travel route to reach an existing distribution pole.	Access to an existing wood pole.
VIG5	Gabion Baskets	421E	N/A	N/A	~780 square feet of permanent disturbance for wet-crossing gabion baskets located east and north of 421E.	Installation of wet crossings as part of road improvements for future SCE maintenance.
VIG5	TBD Pole	422E	33.70573	-117.37260	40 feet north of 422E. ~ 500 square feet of temporary work area for an existing wood pole.	Modification of an existing wood pole.
VIG5	TBD Pole	422E	33.70573	-117.37282	70 feet northwest of 422E. ~ 820 square feet of temporary work area for an existing wood pole.	Transfer distribution line to 115-kV pole and remove existing wood pole.
VIG5	TBD Pole	423E	33.706011	-117.37330	70 feet northwest of 423E. 645 square feet of temporary work area for an existing wood pole.	Transfer distribution line to 115-kV pole and remove existing wood pole.
VIG5	TBD Pole	424E	33.70631	-117.37382	98 feet northwest of 424E. 1,115 square feet of temporary work area for an existing wood pole.	Transfer distribution line to 115-kV pole and remove existing wood pole.
VIG5	Access Road	425E- 426E	N/A	N/A	An increase of 64 feet of Level 5 road from what was identified in NTPR-2. 768 square feet of	Improvement of road for future SCE maintenance.

					permanent disturbance and ~1,920 square feet of temporary disturbance.	
VIG5	TBD Pole	427E	33.70692	-117.37485	98 feet southeast of 427E. 680 square feet of temporary work area for an existing wood pole.	Transfer distribution line to 115-kV pole and remove existing wood pole.
VIG5	Anchor Site	440E	33.71130	-117.38131	625 square feet of temporary work area for installation of a guy anchor for 440E.	Installation of guy anchor for stability of 440E.
VIG5	Access Road	440E	N/A	N/A	37 feet of Level 1 access road to a guy anchor work area for 440E.	Access to anchor work area at 440E.
VIG5	Access Road	441E	N/A	N/A	34 feet of Level 1 access road to a guy anchor work area for 441E.	Access to anchor work area at 441E.
VIG5	Guard Areas	483E	N/A	N/A	7500 square feet of temporary guard areas west of 483E and FIG-2163E	Installation of guards to protect public during wire stringing.
VIG5	STUB	483E	33.72870	-117.39345	160 feet northwest of 483E. 3.14 square feet of permanent disturbance for a new wood pole. 1,850 square feet of temporary work area for installation of a wood pole and anchor.	Installation of a stub pole and anchor for the stability of an existing wood pole.
VIG5	Access Road	488E	N/A	N/A	57 feet of Level 1 access road from Temescal Canyon Road to a guy anchor work area at 488E.	Access to anchor work area at 488E.
VIG5	FIG 2167 FIG 2176	FIG 2167 FIG 2176	N/A	N/A	The FIG 115-kV structures would each be shifted 15-91 feet from what was approved in NTP-2. An additional ~27,850 square feet of temporary work area from what was approved in NTP-2 would establish contiguous work areas from FIG-2167 to FIG-2176.	The overall shift of the line to the north would eliminate safety concern of crews working directly underneath the existing energized 115-kV line. The additional work area would also allow crews to avoid oak trees, eliminate the need for oak tree removal, and minimize the trimming of branches.
VIG5	491E – 493E	491E – 493E	N/A	N/A	The VIG 115-kV structures would be shifted south from what was approved in NTP-2. An additional ~46,500 square feet of temporary work area from what was approved in NTP-2 would establish contiguous work areas from 491E to 493E.	The VIG 115-kV structures would be shifted south to avoid conflicts with future road expansion and bridge building by the City of Lake Elsinore. The additional work area would also allow crews to avoid oak trees, eliminate the need for oak tree removal, and minimize the trimming of branches
VIG5	FIG 2177E	FIG 2177E	33.73205	-117.40080	13,190 square feet of temporary work area for FIG-2177E. 28.3 square feet of permanent disturbance for a TSP.	Installation of FIG- 2177E.
VIG5	Anchor Site	FIG 2183E	33.73367	-117.40509	280 square feet of temporary work area for installation of a guy anchor for FIG-2183E.	Installation of guy anchor for stability of FIG-2183E.
VIG5	Access Road	FIG 2187E	N/A	N/A	45 feet of Level 1 access road for overland travel from Concordia Ranch Road to the anchor work area for FIG-2187E.	Access to anchor work area for FIG-2187E.

VIG5	TBD Pole	FIG 2188E	33.73394	-117.40822	38 feet southwest of FIG-2188E. 1,075 square feet of temporary work area for an existing wood pole.	Transfer distribution line to 115-kV pole and remove existing wood pole.
VIG5	TBD Pole	FIG 2189E	33.73395	-117.40895	89 feet southwest of FIG-2189E. 1,125 square feet of temporary work area for an existing wood pole.	Transfer distribution line to 115-kV pole and remove existing wood pole.
VIG5	TBD Pole	FIG 2193E	33.73408	-117.41116	78 feet northeast of FIG2-2193E. 1,125 square feet of temporary work area for an existing wood pole.	Transfer distribution line to 115-kV pole and remove existing wood pole.
VIG5	TBD Pole	FIG 2194E	33.73417	-117.41188	110 feet northeast of FIG-2194E. 1,125 square feet of temporary work area for an existing wood pole.	Transfer distribution line to 115-kV pole and remove existing wood pole.
VIG5	TBD Pole	FIG 2194E	33.73427	-117.41260	172 feet northwest of FIG-2194E. 1,225 square feet of temporary work area for an existing wood pole.	Transfer distribution line to 115-kV pole and remove existing wood pole.
VIG5	TBD Pole	FIG 2195E	33.73415	-117.41312	76 feet northwest of FIG-2195E. 840 square feet of temporary work area for an existing wood pole.	Transfer distribution line to 115-kV pole and remove existing wood pole.
VIG5	TBD Pole	514E	33.73263	-117.41006	86 feet northwest of 514E. 934 square feet of temporary work area for an existing wood pole.	Transfer distribution line to 115-kV pole and remove existing wood pole.
VIG5	TBD Pole	519E	33.73264	-117.41312	80 feet southeast of 519E. 1,225 square feet of temporary work area for an existing wood pole.	Transfer distribution line to 115-kV pole and remove existing wood pole.
VIG6	Access Road	527E	N/A	N/A	96 feet and approximately 1,176 square feet of temporary disturbance for a Level 2 access road turn-around at 527E.	Temporary access road for a turn-around at 527E. Road to be restored after construction.
VIG6	TBD Pole	527E	33.73319	-117.41869	340 feet northwest of 527E. 1,028 square feet of temporary work area for an existing wood pole.	Transfer distribution line to 115-kV pole and remove existing wood pole.
VIG6	TBD Pole	528E	33.73341	-117.41953	363 feet southeast of 528E. 1,125 square feet of temporary work area for an existing wood pole.	Transfer distribution line to 115-kV pole and remove existing wood pole.
VIG6	Access Road	527E- 528E	N/A	N/A	530 feet of Level 1 access road for overland travel from the I-15 shoulder to reach the two TBD poles between 527E and 528E.	Access to existing wood distribution poles.
VIG6	Access Road	534E	N/A	N/A	90 feet southeast of 534. 53 linear feet of Level 5 access road beyond what was included in NTPR-2. ~1,608 square feet of permanent disturbance.	Improvement of road for future SCE maintenance.
VIG7	TBD Pole	544E	33.741509	-117.43502	50 feet north of 544E. 1,125 square feet of temporary work area for an existing wood pole.	Transfer distribution line to 115-kV pole and remove existing wood pole.
VIG7	Access Road	560E	N/A	N/A	245 feet of Level 0 access road on Glen Eden Road to the work area for existing pole 4873280E.	Access to existing wood pole.
VIG7	Fiber Optic Line	565E	N/A	N/A	Instead of installing 1,330 feet of underground conduit for fiber optic line from 565E to V5548778 as proposed in NTPR-2, SCE would install 955 feet of fiber overhead on existing distribution poles and 430 feet underground to V5548778. The change would result in a decrease of 1,439	Installation of fiber optic line overhead and underground.

					square feet of temporary disturbance.	
VIG7	Pull Site	566E	N/A	N/A	Southeast of 566E. 4,450 square feet of additional pull site area with an overlapping Level 1 access road along an existing dirt road.	In response to the Western Riverside County Regional Conservation Authority's concern about impacts to a sensitive plant at this location, SCE would use the requested pull site area as the primary location for setting up pulling equipment in order to avoid the east side of the pull site where the sensitive plant population is most dense.
VIG7	TBD Pole	572E	33.74847	-117.44727	30 feet southeast of 572E. 385 square feet of temporary work area for an existing wood pole.	Transfer distribution line to 115-kV pole and remove existing wood pole.

Summary of Proposed Land Disturbance:

Temporary and permanent disturbance areas associated with MPR No. 03 are shown in Table 4. The quantity and dimensions of MPR No. 03 disturbance areas are consistent with what is described in Table 2-5 of the FEIR. Section 2.4.2.1 of the FEIR states that construction of VIG would disturb approximately 633.7 acres of land, including approximately 141.5 acres of permanent disturbance. Total impacts for all VIG NTPRs/MPRs are anticipated to be below the quantities given in the FEIR. If quantities in future NTPRs/MPRs exceed the FEIR, an explanation of significance will be provided.

Table 4: Disturbances	Associated wit	h MPR No. 03
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Feature	Number of Miles	Temporary Impact Total	Permanent Impact Total
Level 0 Road Improvement	0.42		
Level 1 Road Improvement	0.23		
Level 2 Road Improvement	0.10	0.089 ac (3,860 sq ft)	
Level 5 Road Improvement	0.37	0.71 ac (31,080 sq ft)	0.64 ac (27,836 sq ft)
Temporary Work Areas		4.86 ac (211,566 sq ft)	
LWS or Wood Pole, New			0.0002 ac (9.42 sq ft)
TSP, New			0.001 ac (56.6 sq ft)
Gabion Basket, New			0.02 ac (780 sq ft)
Rip Rap / Culvert			0.003 ac (128 sq ft)
Underground Trench		-0.03 ac (-1,439 sq ft)	
Telecommunication vault		0.01 ac (380 sq feet)	0.0006 ac (25 sq ft)
Total	1.12 miles	5.63 ac (245,447 sq ft)	0.67 ac (29,835 sq ft)

Provide a summary list of applicable Project requirements (e.g., MMs, etc.) for which the refinements are being requested:

No refinements to the Project requirements are being requested. The existing Project requirements will be followed, as applicable, for the newly requested area.

Would the proposed refinements conflict with any of the above-listed MMs or other Project requirements or applicable laws, regulations, or policies?	No	Yes
Explain proposed refinements consistency/inconsistency with applicable Project requirements below.		

The proposed refinements do not conflict with any of the project commitments or mitigation measures listed in FEIR Section 9 Mitigation Monitoring, Compliance, and Reporting Plan.

Would the Proposed Project refinements result in a new impact, or increase the severity of a previously analyzed impact on:	No	Yes
Aesthetics (e.g. damage scenic resources or vistas, degrade the existing visual character of the site and its surroundings, or create sources of light or glare)?		

Summary of Proposed Project Refinement Impacts on Aesthetics:

The proposed additional work areas and the work to be conducted are consistent with the descriptions of structures to be installed and disturbances to occur during construction provided in Sections 2.3.1.1, 2.3.1.3, and Table 2-5 of the FEIR.

The proposed revision to the telecommunications fiber optic line in VIG7 (De Palma Road) from underground to overhead would place 955 feet of fiber optic line onto existing electrical utility poles currently supporting 33-kV and 12-kV distribution conductors. The overhead fiber optic line would span six poles and would be positioned approximately 26 feet above the ground and 17–30 feet below the 12-kv distribution conductor. The proposed fiber optic line would be visible to drivers travelling along De Palma Road and on the I-15 freeway located 115 feet to the north, as well as to residents in homes located approximately 450 feet to the southwest. The fiber optic line would be visually indistinct relative to these electrical conductors and would not have a substantial adverse effect to a scenic vista, scenic resources, or to the visual character of the location.

Aesthetic impacts associated with these refinements do not create a new significant impact or a substantial increase in the severity of a previously identified impact identified in Section 4.1.4.2 of the FEIR. All applicable avoidance/minimization measures identified in FEIR Chapter 9 Mitigation Monitoring, Compliance, and Reporting Plan would be followed.

Agriculture and Forestry (e.g. convert farmland to non-agricultural use, or forest land to non-forest use, or create a conflict with existing agricultural zoning or a Williamson Act)?

Summary of Proposed Project Refinement Impacts on Agriculture and Forestry:

The proposed additional work areas are not located on land designated as farmland or forest. Impacts to agriculture and forestry associated with this refinement do not create a new significant impact or a substantial increase in the severity of a previously identified impact identified in Section 4.2.4.2 of the FEIR. All applicable avoidance/minimization measures identified in FEIR Chapter 9 Mitigation Monitoring, Compliance, and Reporting Plan would be followed.

Air Quality (e.g. violate any air quality standard, or produce criteria air pollutant emissions, or expose sensitive receptors to addition pollutants)?

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Summary of Proposed Project Refinement Impacts on Air Quality:

Activities occurring at the proposed locations and the types of equipment and vehicles used are consistent with the activities described in Sections 2.3.1.1 and 2.3.1.3 of the FEIR. Impacts to air quality associated with this refinement do not create a new significant impact or a substantial increase in the severity of a previously identified impact identified in Section 4.3.4.2 of the FEIR. All applicable avoidance/minimization measures identified in FEIR Chapter 9 Mitigation Monitoring, Compliance, and Reporting Plan would be followed.

Biological Resources (e.g. have an adverse effect on sensitive or special-status species; impact riparian, wetland, or any other sensitive habitat; or interfere with the movement of native resident or migratory fish or wildlife)?

Previous Biological Survey Report Reference:

The proposed work areas were included in previous biological surveys for the FEIR, as described in the biological report (Attachment A).

Summary of Proposed Project Refinement Impacts on Biological Resources:

The work areas do not overlap with wetlands or waterways; no amendments to the waters permits would be needed.

Several proposed work areas in VIG5–VIG7 occur within Riversidean sage scrub (RSS)/disturbed Riversidean sage scrub, including an anchor worksite north of FIG-2187E (VIG5), existing wood poles between 527E and 528E (VIG6), and an access road between 539E and 540E (VIG7). In accordance with MM BR-5, removal of Riversidean sage scrub habitat would not occur during the coastal California gnatcatcher breeding season.

MPR No. 03 includes the expansion of work areas at 491E–493E and FIG-2167E–FIG-2176E in an area populated with oak trees. The work area expansion will allow crews flexibility in the setup of equipment in order to avoid oak tree removal and minimize trimming.

The proposed expansion of the pull site southeast of 566E is at a location with special-status plant species, including slender-horned spineflower, Robinson's peppergrass, peninsular spineflower, Coulter's matilija poppy. The proposed expansion will allow pulling and tensioning equipment to set up primarily from on the existing access road on the west side of the proposed area, thereby avoiding most of the special-status plant individuals.

Following the completion of all construction, the temporary work areas would be restored/reclaimed in accordance with the Project SWPPPs, Project Commitment D, and the VIG Habitat Restoration and Revegetation Plan.

The activities described in MPR No. 3 do not create a new significant impact or a substantial increase in the severity of an identified impact listed in Section 4.4.4.2 of the FEIR. Indirect impacts that may occur to sensitive species in the vicinity of the proposed work areas would be mitigated in accordance with the Project Commitments and Mitigation Measures.

All the proposed features have coverage under the WR-MSHCP Phase 2 certificate of inclusion (COI) except for the new access road between 413E and 422E. Based on the guidance provided by the RCA, construction of these features will not require notification and approval by the RCA prior to construction because the overall permanent disturbance to baseline vegetation of RCA concern does not exceed the acreage proposed in the MSHCP PSE application. The access road from 422E to 435E was proposed as a Level 5 road in the MSHCP PSE application but was approved in NTP-2 as primarily a Level 2 road. The change in permanent impacts to vegetation at 413E–436E results in a reduction of 0.22 acres of permanent disturbance (Table 3). All temporary impacts to vegetation will be restored in accordance with the HRRP.

Table 3. Permanent Impacts to MSHCP Baseline Grasslands Between Poles 413E and 436E

MSHCP PSE Application	1.176 Acres
Currently Proposed Impacts (9/25/20)	0.949 Acres
Reduction in Grassland Impacts	0.22 Acres

The proposed work areas are covered under the Stephens' kangaroo rat Habitat Conservation Plan as depicted in the biological resource maps (Attachment A). All applicable avoidance/minimization measures identified in FEIR Chapter 9 Mitigation Monitoring, Compliance, and Reporting Plan would be followed.

Cultural Resources (e.g. cause an adverse change to a significant historical, archeological, paleontological, or tribal resource or disturb any human remains)?

Summary of Proposed Project Refinement Impacts on Cultural Resources:

The proposed refinements were included in the cultural and paleontological resource analyses were analyzed in addendum reports (Attachments B & C). There are no new sensitive archaeological or paleontological resources located at the proposed work areas based on survey results. Cultural and tribal monitoring would be conducted in accordance with the CRMTP. Paleontological monitoring, spot checking, and fossil recovery would be implemented for excavations at the proposed work areas in accordance with the Project's PRMP. If a resource is found at the site, SCE would comply with the procedures for unanticipated discoveries provided in MMs CR-1b, CR-4, CR-5, CR-7, the CRMTP, and the PRMP. Impacts to cultural resources associated with this refinement do not create a new significant impact or a substantial increase in the severity of a previously identified impact identified in Section 4.5.4.2 of the FEIR. All applicable avoidance/minimization measures identified in FEIR Chapter 9 Mitigation Monitoring, Compliance, and Reporting Plan would be followed.

Geology, Soils, and Seismicity (e.g. expose people or structures to risk of loss, injury, or death involving seismic-related ground failure including liquefaction or landslides, be located on a geologic unit, unstable soil, or expansive soil)?

Summary of Proposed Project Refinement Impacts on Geology, Soils, and Seismicity:

Erosion would be controlled at locations of earth disturbance through the implementation and adherence to the Project linear SWPPP. Following approval of MPR No. 03, the SWPPP would be updated to show the proposed work areas. At the completion of all construction, sites would be restored/reclaimed in accordance with the Project SWPPPs, Project Commitment D, and the VIG Habitat Restoration and Revegetation Plan.

Impacts to geology, soils, and seismicity associated with this refinement do not create a new significant impact or a substantial increase in the severity of a previously identified impact identified in Section 4.6.4.2 of the FEIR. All applicable avoidance/minimization measures identified in FEIR Chapter 9 Mitigation Monitoring, Compliance, and Reporting Plan would be followed.

Greenhouse Gas Emissions (e.g. generate a substantial amount of greenhouse gas [GHG] emissions, conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing emissions or GHGs)?

Summary of Proposed Project Refinement Impacts on Greenhouse Gas Emissions:

Activities occurring at the proposed locations and the types of equipment used are consistent with the activities described in Sections 2.3.1.1 and 2.3.1.3 of the FEIR. The type and quantity of construction equipment would be the same as identified in NTPR-2; the areas requested do not require the use of additional equipment. In compliance with MM AQ-1, NOX and PM emissions from off-road diesel-powered construction equipment would be minimized to the extent feasible by using Tier 4 interim or Tier 4 Standards for equipment with engines greater than 150 horsepower. Per MM AQ-2, daily emissions of equipment would be tracked to ensure NOX emissions stay within the NOX Regional Clean Air Incentive Market Trading Credits (RTCs) purchased for the Project.

Impacts to greenhouse gas emissions associated with this refinement do not create a new significant impact or a substantial increase in the severity of a previously identified impact identified in Section 4.7.4.2 of the FEIR. All applicable avoidance/minimization measures identified in FEIR Chapter 9 Mitigation Monitoring, Compliance, and Reporting Plan would be followed.

Hazards and Hazardous Materials (e.g. create hazards to public or environment through transport, use, disposal, or accident conditions of hazardous materials, be located on a site of hazardous materials, or expose people and structures to loss, injury of death involving wildland fires)?

Summary of Proposed Project Refinement Impacts on Hazards and Hazardous Materials:

Activities occurring at the proposed locations are consistent with the activities described in Sections 2.3.1.1 and 2.3.1.3 of the FEIR. All proposed locations are within the 1,000-foot corridor evaluated for solid waste disposal sites, Cease and Desist Orders, or Cleanup and Abatement orders per Section 4.8.1.1 of the FEIR. Planned ground-disturbing activities includes excavating, including drilling of holes for LWS pole installation. In the event of an inadvertent discovery, SCE would follow the procedures in Project's Contaminated Soil and Groundwater Contingency Plan. Proposed work areas in MPR No. 03 are located within a Very High Fire Hazard Zone. Fire danger mitigation would be implemented in accordance with the Project Emergency Action Plan and Fire Control and Emergency Response Plan. Impacts to hazards and hazardous materials associated with this refinement do not create a new significant impact or a substantial increase in the severity of a previously identified impact identified in Section 4.8.4.2 of the FEIR. All applicable avoidance/minimization measures identified in FEIR Chapter 9 Mitigation Monitoring, Compliance, and Reporting Plan would be followed.

Hydrology and Water Quality (e.g. violate water quality standards or discharge waste requirements, alter the existing drainage pattern creating additional sedimentation, runoff water, or polluted runoff, or inundate by seiche, tsunami, or mudflow)?

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Summary of Proposed Project Refinement Impacts on Hydrology and Water Quality:

The proposed refinements are located within the Santa Ana Watershed and refinements within Segments VIG4, VIG6, VIG7, VIG8, and portions of VIG5 are in the Elsinore Groundwater Basin. Some of the proposed work areas are located within a flood zone, as shown in Figure 4.9-4 of the FEIR; however, the proposed work is consistent with the work described in sections 2.3.1.1 and 2.3.1.3 of the FEIR and would not alter flood flows.

Most of the proposed work areas are located away from surface water bodies. Proposed VIG5 work areas in the vicinity of Lake Street and Temescal Canyon Road are near the Temescal Wash. Several other proposed work areas are near unnamed streams or ephemeral drainages. Erosion that could affect water quality would be controlled at locations of earth disturbance through the implementation and adherence to the Project linear SWPPP. If stained or odorous soil is found during excavating, SCE would follow the procedures in Project's Contaminated Soil and Groundwater Contingency Plan. Dewatering, if necessary, would be performed in accordance with the Project linear SWPPP.

Impacts to hydrology and water quality associated with this refinement do not create a new significant impact or a substantial increase in the severity of a previously identified impact identified in Section 4.9.4.2 of the FEIR. All applicable avoidance/minimization measures identified in FEIR Chapter 9 Mitigation Monitoring, Compliance, and Reporting Plan would be followed.

Land Use and Planning (e.g. physically divide an established community; conflict with a land use plan, policy, or regulation of an agency with jurisdiction over the project, or conflict with a habitat conservation plan)?

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Summary of Proposed Project Refinement Impacts on Land Use and Planning:

The land use would remain unchanged at proposed locations where existing poles would be modified or replaced. Installation of new poles or guy anchors is consistent with the activities described in Section 2.3.1.1 and Table 2-1 of the FEIR. Impacts to land use and planning associated with this refinement do not create a new significant impact or a substantial increase in the severity of a previously identified impact identified in Section 4.10.4 of the FEIR. All applicable avoidance/minimization measures identified in FEIR Chapter 9 Mitigation Monitoring, Compliance, and Reporting Plan would be followed.

Mineral Resources (e.g. result in the loss of known mineral resources of regional and/or state value, or availability of locally-important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan)?

Summary of Proposed Project Refinement Impacts on Mineral Resources:

Most of the proposed work areas are in Mineral Resource Zone (MRZ) 3 indicating a likely but undetermined significant mineral resource. Some of the proposed VIG5 work areas may be located in MRZ-2, indicating the likelihood of significant mineral deposits. The proposed permanent features would impact the ability to recover mineral resources in the future, but were included in the description of Project activities in Sections 2.3.1.1 and 2.3.1.3 of the FEIR and would occur close to existing roadways, where mineral resource recovery is unlikely to occur.

Impacts to mineral resources associated with this refinement do not create a new significant impact or a substantial increase in the severity of a previously identified impact identified in Section 4.6.4.2 of the FEIR. All applicable avoidance/minimization measures identified in FEIR Chapter 9 Mitigation Monitoring, Compliance, and Reporting Plan would be followed.

Noise and Vibration (e.g. expose sensitive receptors to additional noise or vibration, exposure of persons to or generation of excessive noise, ambient noise, ground-borne noise, or vibration)?

Summary of Proposed Project Refinement Impacts on Noise and Vibration:

Activities occurring at the proposed locations and the types of equipment used are consistent with the activities described in Sections 2.3.1.1 and 2.3.1.3 of the FEIR. Implementation of the Project Noise Control Plan would ensure noise reduction measures are performed as required. Blasting would not occur in Segments VIG4 and VIG7, and is not anticipated during access road construction, site preparations, excavation work, or foundation work in Segments VIG5, VIG6, and VIG8, as described in the VIG FEIR Section 2.4.5.4. If blasting or fracturing is needed, a blasting plan would be submitted for CPUC review and approval in accordance with MMs WQ-1 and NV-2. Blasting would only be used in areas where subsurface obstructions reasonably preclude excavation using conventional construction equipment.

Impacts to noise and vibration associated with this refinement do not create a new significant impact or a substantial increase in the severity of a previously identified impact identified in Section 4.11.4.2 of the FEIR. All applicable avoidance/minimization measures identified in FEIR Chapter 9 Mitigation Monitoring, Compliance, and Reporting Plan would be followed.

Population and Housing (e.g. directly or indirectly induce substantial population growth in an area, or displace substantial numbers of people or existing housing)?

Summary of Proposed Project Refinement Impacts on Population and Housing:

The proposed refinements would not increase or displace populations. Impacts to population and housing associated with this refinement do not create a new significant impact or a substantial increase in the severity of a previously identified impact identified in Section 4.12.4 of the FEIR. All applicable avoidance/minimization measures identified in FEIR Chapter 9 Mitigation Monitoring, Compliance, and Reporting Plan would be followed.

Public Services and Utilities (e.g. result in substantial adverse physical impacts on government facilities that provide a public service or cause environmental impacts to service ratios, response times, or other performance objectives to fire protection, sheriff protection, schools, parks, or other public facilities)?

Summary of Proposed Project Refinement Impacts on Public Services and Utilities:

The proposed refinements would not increase the need for or physically alter any public services. Impacts to public services and utilities associated with this refinement do not create a new significant impact or a substantial increase in the severity of a previously identified impact identified in Section 4.13.4.2 of the FEIR. All applicable avoidance/minimization measures identified in FEIR Chapter 9 Mitigation Monitoring, Compliance, and Reporting Plan would be followed.

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Recreation (e.g. increase the use of, or cause adverse effects on, existing neighborhood, parks, or other recreational facilities)?

Summary of Proposed Project Refinement Impacts on Recreation:

The proposed refinements would not cause deterioration to any recreational facilities and would not overlap trails or impact their use. Impacts to recreation associated with this refinement do not create a new significant impact or a substantial increase in the severity of a previously identified impact identified in Section 4.14.4 of the FEIR. All applicable avoidance/minimization measures identified in FEIR Chapter 9 Mitigation Monitoring, Compliance, and Reporting Plan would be followed.

Transportation and Traffic (e.g. increase hazards due to design feature, result in inadequate emergency access, or conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities)?

Summary of Proposed Project Refinement Impacts on Transportation and Traffic:

Activities occurring at the proposed locations are consistent with the activities described in Sections 2.3.1.1 and 2.3.1.3 of the FEIR. The quantity of construction equipment and personnel would be the same as identified in NTPR-2. Adherence to the Project Traffic Management and Control Plan would ensure compliance with traffic-related Project mitigation measures, TT-1, TT-2, and TT-7. There would be no change to the access routes identified in the Traffic Management and Control Plan.

Impacts to transportation and traffic associated with this refinement do not create a new significant impact or a substantial increase in the severity of a previously identified impact identified in Section 4.15.4.2 of the FEIR. All applicable avoidance/minimization measures identified in FEIR Chapter 9 Mitigation Monitoring, Compliance, and Reporting Plan would be followed.

Describe any applicable consultation with other governmental agencies conducted for the proposed refinements:

No consultation with other governmental agencies was necessary or conducted for the proposed refinement.

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Approvals	Date	Name (print)	Signature	
SCE Project Manager				Reviewed
SCE Environmental Project Manager				Reviewed
CPUC Project Manager				 Approved Approved with conditions (see below) Denied

For CPUC Compliance Manager Use Only					
Refinement Approved	Refinement Denied	Beyond Authority			
Conditions of Approval or Reason for Denial:					

Prepared by:

Date:

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Attachment A Biological Review



Environmental Intelligence, LLC

June 26, 2020

Matt Hooge Senior Environmental Manager Wilson Construction Company 1190 NW 3rd Avenue P.O. Box 1190 Canby, OR 97013

SUBJECT:BIOLOGICAL REVIEW FOR THE VALLEY-IVYGLEN SUBTRANSMISSIONLINE PROJECT NOTICE TO PROCEED REQUEST #2

PREVIOUSLY COMPLETED SURVEYS

Biological surveys were completed previously for the Valley-Ivyglen Subtransmission Line (VIG) Project, presented herein for Phase 2 (Segments 4-8), including the Catfish 74 Yard, Orange Yard, and Chaney Yard-Alternative, as Notice to Proceed Request #2 (NTPR #2; throughout this document, refer to Exhibit 1, Map Pages 1-20). Previous surveys also included the southern half of the Concordia Yard. Recent surveys in December 2019 covered the northern half of the Concordia Yard and vicinity. These surveys are presented in the Additional Surveys Completed for the Concordia Yard Section of this report.

Please note all proposed work areas with planned Project impacts to jurisdictional waters, Riparian/Riverine resources, or otherwise protected aquatic features within Phase 2 are not requested as a part of this NTPR #2. Several locations within Segments 4, 5, 6, and 8 (none in Segment 7) have been excluded from this NTPR, and will be included in a separate NTPR once permits are obtained to impact these aquatic features under the jurisdiction of U.S. Army Corps of Engineers (USACE), Regional Water Quality Control Board (RWQCB), and California Department of Fish and Wildlife (CDFW). Any work areas that intersect protected aquatic features and are not included in the list below are areas that are planned for avoidance and will not be permitted. The protection of aquatic resources will be managed through establishment of clearly marked environmentally sensitive areas (ESAs), staging of equipment and materials outside the resource, monitoring during adjacent construction, and other best management practices discussed in this report.

NTPR #2 would include all work in Segments 4-8 as described in the VIG Final Environmental Impact report (FEIR), with the exclusion of locations that require jurisdictional waters permits, described as follows:

Segment 4

- Structure work within the channel at Structures 338, 339, 340, 341, 342, 343, and 344 (Map Pages 1 and 2);
- Structure work within the ephemeral streambed at Structure 344 (Map Page 2);
- Structure work within the wetland at Structure 369 (Map Page 3);
- Structure work, wire work, and tree trimming within the wetland/riparian area at Structure 370 (Map Page 3);
- Structure work within the wetland at Structure 372 and tree trimming before and after Structure 372 (Map Pages 3 and 4); and

• Structure work within the riparian area at Structure WP1 (Map Pages 3 and 4).

Segment 5

- Structure work within the ephemeral streambed/riparian area at Structure 413 (Map Page 6);
- Structure work within the ephemeral streambed/riparian area at Structure 421 (Map Page 6);
- Structure and access road work within the ephemeral streambed at Structure 424 (Map Page 6);
- Structure work within the riparian area at Structure 449 (Map Page 8);
- Structure and access road work within the ephemeral streambed/riparian area at Structures 481 and FIG-015 (Map Page 10);
- Tree trimming within the riparian area between Structures 481 and 482 and between FIG-015 and FIG-016 (Map Page 10);
- Guard pole work within the ephemeral streambed/riparian area at Structures FIG-030 (Map Page 11);
- Structure work within the riparian area at Structure FIG-039 (Map Page 11); and
- Structure work within the ephemeral streambed at Structure FIG-048 (Map Page 11).

Segment 6

- Structure work within the ephemeral streambed/riparian area at Structure 520 (Map Pages 11 and 12);
- Tree trimming within the riparian area between Structures 520 and 521 (Map Pages 11 and 12);
- Structure and access road work within the riparian area at Structure 522 (Map Pages 11 and 12);
- Tree trimming within the wetland/riparian area between Structures 522 and 523 (Map Pages 11 and 12);
- Structure work areas and overland travel to two poles labeled "TBD" located west and northwest of Structure 525
- Gabion basket and access road work within the ephemeral streambed leading to Structures 528 and 529 (Map Page 13); and
- Gabion basket and access road work within the riparian area leading to Structures 533 (Map Pages 13 and 14).

Segment 8

- Structure work within the ephemeral streambed at Structure 574 (Map Pages 16 and 17);
- Structure work within the ephemeral streambed/riparian area at Structure 580 (Map Page 20); and
- Structure and wire work within the ephemeral streambed/riparian area at Structures 581 and 044 (Map Page 20).

Relevant biological resources surveys conducted on Phase 2 for this NTPR #2, including within the yards listed above, are discussed below.

PROTECTED AQUATIC RESOURCES

Preliminary jurisdictional waters and wetlands delineations for Phase 2were conducted by AMEC in 2011, 2012, 2013, and 2015. In 2018, Environmental Intelligence (EI) conducted a formal jurisdictional delineation, including a supplemental delineation in 2019, within 500 feet of the project footprint for Phase 2 utilizing the latest available guidance, methodologies, and regulatory frameworks to map the location, type, and extent of Riparian/Riverine resources consistent with the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP).

Methods

The jurisdictional delineation surveys were conducted according to the technical guidelines provided in the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region* (Version 2.0; 2008 Supplement; USACE 2008) to identify and delineate wetlands that may be subject to regulatory jurisdiction under Section 404 of the Clean Water Act (CWA). Wetlands were identified by the "three-factor" approach, in which criteria for wetland hydrology, hydrophytic vegetation, and hydric soils must all be met to conclude that an area is a wetland, as described in the Manual and summarized below. Wetlands that appeared to meet the USACE criteria were considered potentially jurisdictional (since any determination is subject to verification by the regulatory agencies).

"Waters of the U.S." were identified pursuant to criteria outlined in Sections 401 and 404 of the CWA, including but not limited to the presence of an ordinary high-water mark (OHWM) and connection to a downstream jurisdictional water body. The OHWM was determined pursuant to the USACE 2008 *Field Guide to the Identification of the OHWM in the Arid West Region of the Western United States* by observing signs of flow including but not limited to shelving, drift lines, and disturbed vegetation. "Waters of the State" were identified pursuant to criteria outlined in Section 1600 of the California Fish and Game (CFG) Code, including the presence of a defined bed and bank and any associated vegetation. Drainages that appeared to meet the criteria for "waters of the U.S." or "waters of the State" were considered potentially jurisdictional as any determination is subject to verification by the regulatory agencies.

The MSHCP Riparian/Riverine aspect of the surveys assessed features that met the definition of MSHCP for these protected waters features. MSHCP Riparian resources are defined as "lands which contain habitat dominated by trees, shrubs, persistent emergents, or emergent mosses and lichens, which occur close to or which depend upon soil moisture from a nearby fresh water source." MSHCP Riverine resources are defined as unvegetated ephemerals that transport water supporting downstream resources in the MSHCP Conservation Area. For the purposes of determining the extent of MSHCP Riparian/Riverine resources occurring within the Proposed Project Study Area, this analysis included streambed/banks and associated riparian vegetation under the jurisdiction of the CDFW, waters and wetlands under the jurisdiction of the USACE and the RWQCB, as well as other features that met the MSHCP definition of a Riparian/Riverine resource as presented in Section 6.1.2 of the MSHCP.

Results

Western Riverside County is dominated by ephemeral washes that convey flows south and west out of the hills through the San Jacinto River Watershed to Lake Elsinore, whereas within Phase 2 Temescal Creek conveys flows north form Lake Elsinore contributing to the Santa Ana River Watershed. The majority of jurisdictional and MSHCP Riparian/Riverine resources in the Project area include features associated with Temescal Creek (Map Pages 1-20) including wetlands, riparian extent, tributary waters, basins, culverts, roadside ditches, swales, streambanks, and other waters (i.e., basin beds and open waters).

Three seasonally ponded areas were observed that meet the criteria for vernal pools under the MSHCP, but did not meet the USACE three-parameter wetland criteria. These pools had limited access on private property and it was not determined if these were vernal pools. Two pools were observed north and south of Baker Street near Structures 401-403 (Map Page 5), and one large pond was observed in a Riverside County conservation area at the intersection of Alberhill Ranch Road and Nichols Road near Structure 436 (Map Page 7). No impacts to the Riverside County conservation area ephemeral pool are anticipated, as this feature is well outside the proposed impact areas. The ephemeral pools observed north and south of Baker Street are located outside the proposed impact areas and will therefore be avoided entirely during construction.

Conclusions

The VIG Project is designed to avoid jurisdictional and MSHCP Riparian/Riverine resources throughout Phase 2 to the greatest extent practical. Direct and indirect impacts to these features will be avoided by perimeter marking, careful siting of work areas, and appropriate water use and soil movement measures. For this NTPR, Project construction will not occur in areas pending jurisdictional waters permits where impacts to waters of the U.S. and other waters of the State are planned. As mentioned above, there are several construction work areas that are excluded from this NTPR to avoid aquatic resources. A summary of those impacts which overlap MSHCP Riparian/Riverine resources are provided below.

The following discussion is to address impacts associated with MSHCP Riparian/Riverine and other jurisdictional resources within Phase 2 for which a request for notice to proceed will be included in a separate, future NTPR:

- Temporary impacts to Riparian areas will result from working within or in proximity to those habitat features and include an approximate total of 0.450 acre, and temporary impacts to Riverine areas will result from working within or in proximity to channelized features, totaling 0.284 acre.
- Permanent impacts to Riparian features will result from grading and construction of unpaved roadways, poles, and one gabion, and include an approximate total of 0.109 acre. Permanent impacts to Riverine features will primarily result from grading and construction of unpaved roadways, poles, and installation of gabions, totaling 0.073 acre. Additionally, riparian vegetation may require trimming between Poles 369-375, 478-482, 015-016, 520-523, and 580-581 to ensure proper line clearance within the Gunnerson Pond area and Temescal Wash. These areas may be annually or bi-annually maintained and trimmed by hand, under future operation and maintenance activities according to the California Public Utilities Commission and other safety standards, and are therefore determined to be permanent impacts. Permanent impacts to Riparian areas from hand trimming of trees for power line clearance are considered "temporally passive edge effects" and are not expected to cause permanent loss through mortality of any riparian vegetation. Therefore, the Project's permanent impacts to Riparian areas from tree trimming would not adversely affect the functions and values of this habitat.

Unavoidable impacts would be minimized and mitigated in accordance with the provisions set forth by the USACE, RWQCB, and CDFW and MSHCP. No vernal pool impacts will occur. SCE is in the process of obtaining the following authorizations and permits for both Phase 1 and Phase 2 concurrently:

- CWA Section 404 permit for discharge (placement) of dredged or fill material within waters of the U.S. under the purview of USACE;
- CWA Section 401 state water quality certification for an action that may result in the discharge of pollutants into waters of the U.S. and state under the purview of RWQCB; and
- CFGC Section 1600 *et seq.* Lake and Streambed Alteration Agreement if planned activities would result in the substantial, adverse impacts to the bed and/or bank (including the associated riparian extent) of a stream (waters of the state, exclusively) under the purview of CDFW.

SCE has also submitted a MSHCP Participating Special Entity (PSE) Application that included an amended Determination of Biologically Equivalent or Superior Preservation (DBESP) for unavoidable impacts to Riparian/Riverine resources for Phase 2. The DBESP included a Riparian/Riverine resources impacts analysis and applicable mitigation measures.

Vehicles and equipment will follow the best management practices discussed in Mitigation Measure (MM) BR-1: Limit Construction to Designated Areas and Avoid Riparian, Aquatic, and Wetland Areas. Additionally, biological construction monitoring will occur during work on Phase 2 where there is the potential to impact jurisdictional or Riparian/Riverine resources.

Avoidance and minimization measures to further reduce impacts to Riparian/Riverine resources include implementation of Project Commitment B (Worker Environmental Awareness Program [WEAP]), Project Commitment D (Habitat Restoration and Revegetation Plan), MM BR-2 (Pre-construction Surveys), MM BR-3 (Biological Monitoring During Construction), MM BR-4 (Limit Removal of Native Vegetation Communities and Trees), MM BR-7 (Habitat Restoration and Revegetation Plan Requirements), MM BR- 9 (Invasive Plant Control Measures), MM BR-13 (Trash Abatement), and MM BR-15 (Stormwater Pollution Prevention Plan [SWPPP]).

BOTANICAL SURVEYS

Focused botanical surveys for Phase 2 included a reconnaissance-level habitat assessment by AMEC in 2006, with focused botanical surveys conducted by AMEC in 2007. Additional focused botanical surveys were conducted by AMEC and Chambers Group in 2009; by University of California Riverside and AMEC in 2011, 2012, 2013, and 2014; by AECOM in 2015; by EI and Sage Institute in 2017; and by EI and Garcia and Associates in 2018.

Methods

Phase 2 focused botanical surveys conducted in in 2007 followed the *Guidelines for Assessing the Effects* of Proposed Projects on Rare, Threatened, and Endangered Plants and Natural Communities (California Department of Fish and Game [CDFG] 2006) and the California Native Plant Society (CNPS) Botanical Survey Guidelines (CNPS 2001). Phase 2 focused botanical surveys conducted between 2009 and 2018 followed the CDFG Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities (CDFG 2009) and the 2001 CNPS guidelines.

Focused surveys for special-status plant species and invasive plants/noxious weeds were conducted during the appropriate blooming season within all proposed work areas, plus a 100-foot buffer. The survey areas were traversed by foot, following meandering transects that were intuitively controlled, meaning the biologists determined the appropriate spacing, pace, direction, and duration of the surveys to provide 100 percent survey coverage in a given area. These variables were in turn determined by the vegetation community type and cover, slope, and aspect.

Results

Within Phase 2 (Segments 4-8), during botanical field studies conducted to date (2007, 2009, 2011-2015, and 2017-2019), 21 special-status plant species were detected, as follows:

- Yucaipa onion Allium haematochiton/marvinii (Allium haematochiton/marvinii; Map Page 6);
- chaparral sand verbena (Abronia villosa var. aurita; Map Pages 11, 16, 17, 18, and 19);
- Coulter's goldfields (*Lasthenia glabrata* ssp. *coulteri*; Map Pages 5, 6, and 18);
- Coulter's matilija poppy (*Romneya coulteri*; Map Pages 11-20);
- Engelmann oak (*Quercus engelmannii*; Map Pages 13, 14, and 15);
- little mousetail (*Myosurus minimus*; Map Pages 5 and 6);
- long-spined spineflower (Chorizanthe polygonoides var. longispina; Map Pages 14 and 15);
- Munz's onion (*Allium munzii*; Map Pages 4, 7, 10, 11, and 14-17);
- Palmer's grapplinghook (*Harpagonella palmeri*; Map Pages 4, 6, 7, 10, 11, and 14 through 17);
- paniculate tarplant (*Deinandra paniculata*; Map Pages 1-6);
- peninsular spineflower (*Chorizanthe leptotheca*; Map Pages 15 and 16);
- Robinson's peppergrass (Lepidium virginicum var. robinsonii; Map Pages 1, 11, 15, and 16);
- round-leaved filaree (California macrophylla; Map Page 4);
- San Diego ambrosia (*Ambrosia pumila*; Map Pages 4, 5, 6, and 9);
- San Jacinto Valley crownscale (Atriplex coronata var. notatior; Map Pages 5 and 6);
- slender-horned spineflower (*Dodecahema leptoceras*; Map Pages 15 and 16);
- small-flowered microseris (*Microseris douglasii* var. *platycarpha*; Map Pages 3, 4, 5, 7, 10, 11, and 14-17);
- small-flowered morning-glory (*Convolvulus simulans*; Map Pages 4-7, 15, 16, and 17);

- smooth tarplant (*Centromadia pungens* ssp. *laevis*; Map Pages 1-4)
- vernal barley (Hordeum intercedens; Map Pages 3 and 4); and
- white rabbit-tobacco (*Pseudognaphalium leucocephalum*; Map Pages 3 and 4).

Oaks (*Quercus* spp.) with varying degrees of introgression between *Quercus engelmannii* (Engelmann oak) and *Quercus berberidifolia* (inland scrub oak) were encountered along the terrace escarpments south of Interstate 15 in Temescal Canyon. Two individuals exhibiting morphological features more towards *Quercus engelmannii* were mapped north of and between Structures 531 and 532 (Map Pages 13 and 14) and south of Structure 549 (Map Page 15); however, these trees are located entirely outside of any work area and will be not be affected by the Project.

Coast live oak (*Quercus agrifolia*) trees are located along the Project study area. The intent is that oak tree removal will be avoided to the greatest extent possible. However, some trimming of oak trees is anticipated. Oak tree removal and pruning within county highway rights-of-way will be done in accordance with the applicable Riverside County tree protection ordinances.

Results of invasive plant and noxious weed surveys can be found in the Invasive Plant Management Plan developed for the Project.

Conclusions

MSHCP Adequately Conserved Species and Species Not Covered by MSHCP

MSHCP Adequately Conserved Species (note: these are species that, if impacted, do not require additional mitigation) observed within Phase 2 include small-flowered morning glory, Palmer's grapplinghook, long-spined spineflower, and vernal barley. Coverage of these species will be granted through participation in the MSHCP. Paniculate tarplant and Robinson's peppergrass are California Rare Plant Rank (CRPR) List 4 species not covered by the MSHCP that were observed within the Project work areas. The Project will implement the avoidance and minimization measures listed below at the end of this section and no additional mitigation is required for these species.

Portions of the Project alignment occur within Narrow Endemic Plant Species Survey Area (NEPSSA) 1 and Criteria Area Species Survey Area (CASSA) 1 of the MSHCP. The NEPSSA plant species required to be surveyed for in NEPSSA 1 include Munz's onion, San Diego ambrosia, slender-horned spineflower, many-stemmed dudleya (Dudleya multicaulis), spreading navarretia (Navarretia fossalis), California Orcutt grass (Orcuttia californica), San Miguel savory (Satureja chandleri), Hammitt's clay-cress (Sibaropsis hammittii), and Wright's trichocoronis (Trichocoronis wrightii var. wrightii). The CASSA plant species required to be surveyed for in CASSA 1 include San Jacinto Valley crownscale (Atriplex coronata var. notatior) thread leaved brodiaea (Brodiaea filifolia), Davidson's saltbush (Atriplex serenana var. davidsonii), Parish's saltbush (Atriplex parishii), little mousetail (Myosurus minimus), smooth tarplant, Coulter's goldfields, and round-leaved filaree (California macrophylla). Additionally, focused surveys were conducted for special-status plants described in Table 9-3 of the MSHCP and for other sensitive species that are not covered or addressed by the MSHCP. For NEPSSA and CASSA populations identified within designated survey areas, permanent impacts to 90 percent of those portions of the property that provide for long-term conservation value (LTCV) of the identified species will be avoided until it is demonstrated that species-specific conservation objectives for the particular species are met. Findings of equivalency will be made to demonstrate that the 90-percent standard has been met. If it is determined that the 90-percent standard cannot be met and achievement of overall MSHCP conservation goals for the particular species have not yet been demonstrated, a DBESP would be required.

NEPSSA Plant Species

Three MSHCP NEPSSA that have been identified within the Project study area to date include Munz's onion, San Diego ambrosia, and slender-horned spineflower within NEPSSA 1. There are no permanent impacts to the LTCV of these NEPSSA species; therefore, a DBESP would not be required. However, there are temporary impacts to these species, and with implementation of the proposed avoidance/minimization

measures, temporary impacts would not be considered significant and the Project is consistent with MSHCP Section 6.1.3.

To further avoid and/or minimize potential impacts to the San Diego ambrosia specifically, the Project will implement the San Diego ambrosia mitigation measure Project Commitment L. Impacts to this species will be minimized by timing construction in the late summer/early fall to protect San Diego ambrosia. Furthermore, there are other measures that can be implemented to reduce or alleviate soil compaction, such as placing metal grates or plywood sheets (depending on size of equipment) over the plants temporarily.

Potential temporary impacts to Munz's onion and slender-horned spineflower will be avoided or minimized through similar methods as described above for San Diego ambrosia. A biological monitor will clearly mark the limits of the population and be present during construction to microsite vehicle staging to avoid individual plants and habitat. Construction should be conducted outside of the species blooming period (March-May for Munz's onion and April-June for slender-horned spineflower) and avoid wet soil conditions when work could result in damage to the soil and growing plants/bulbs. Preconstruction surveys will be conducted during the blooming season to confirm the population size and flag individual Munz's onion and slender-horned spineflower plants and flag/fence for avoidance. Site conditions have not changed substantially since the 2017/2018 surveys. Ground disturbance is expected to be limited to equipment staging with no grading or removal of soil. If equipment and vehicles need to be situated over the plant populations, protective mats will be placed over the plants temporarily to distribute the weight and minimize soil compaction. Topsoil salvage and deeper soil salvage would only be considered as mitigation for Munz's onion and slender-horned spineflower temporary impacts if disturbance to the soil cannot be avoided per the methods discussed above. Soil salvage would be conducted under the supervision of a qualified botanist and be conducted outside the blooming period. Topsoil salvage for slender-horned spineflower would include collecting the top 2-3 inches of soil prior to construction and then return to the same location after construction is complete. For Munz's onion, soil salvage would include digging deeper to collect an intact block of soil (approximately 12 inches deep) around the plants sufficient to maintain the soil integrity and contain the bulbs that typically lie a couple inches below the surface. The blocks of soil would then be returned after construction to the same location and orientation. Temporary impact areas will be monitored per the Habitat Restoration and Revegetation Plan (HRRP) to assess habitat conditions and need for weeding or other maintenance.

CASSA Plant Species

Four CASSA plant species that have been identified within the Project study area to date within the CASSA (San Jacinto Valley crownscale, smooth tarplant, little mousetail, and Coulter's goldfields) and one CASSA species (round-leaved filaree) was observed outside the CASSA. There are no permanent impacts to the LTCV of San Jacinto Valley crownscale, round-leaved filaree (permanent impacts outside CASSA), and Coulter's goldfields; therefore, a DBESP would not be required. However, there are proposed permanent impacts to smooth tarplant and temporary impacts to San Jacinto Valley crownscale, smooth tarplant, and Coulter's goldfields within CASSA and with implementation of the proposed avoidance/minimization measures, permanent impacts will be mitigated and temporary impacts would not be considered significant and the Project is consistent with MSHCP Section 6.3.2. Additionally, there is the potential for temporary impacts to smooth tarplant on Public Quasi-public (PQP) MSCHP conserved lands at 3rd Street and Pasadena Street requiring additional avoidance and minimization measures.

Permanent impacts to smooth tarplant within the CASSA will be avoided through redesigning the access road or using drive and crush methods outside of the species' blooming period as well as outside wet conditions. If the road cannot avoid permanent impacts to 90% of the population then compensatory mitigation would be developed and likely follow one of two options: 1) either an easement would be obtained to preserve an appropriately sized portion of the adjacent smooth tarplant population, or 2) a DBESP would be prepared. The DBESP would include requirements to locate and secure a nearby site with suitable soils and habitat conditions to conduct smooth tarplant restoration and/or propagation, an appropriate mitigation ratio for habitat and individuals impacted, sit preparation if needed, seed collection and dispersal methods, and monitoring and maintenance for up to three years. The smooth tarplant within

the PQP lands south of 3rd Street and Pasadena Street will be avoided by installing exclusion fencing around the southern and eastern side of the population adjacent to the construction area and monitoring wire pulling work to maintain equipment and vehicles on the developed areas such as the adjacent parking lot to the southeast outside the population.

If needed, topsoil salvage and replacement and/or seed collection and broadcasting would also be conducted for temporary impacts to San Jacinto Valley crownscale, smooth tarplant, and Coulter's goldfields. Top soil salvage and seed collection methods would follow the methods in the HRRP and as discussed above for NEPSSA species impacts. The timing of seed collection would vary per species and annual weather conditions and generally occur following the blooming period.

MSHCP Table 9-3 Species

Three MSHCP Table 9-3 species (peninsular spineflower, small-flowered microseris, and Coulter's matilija poppy) were observed during surveys and within proposed Project work areas. No additional mitigation is required for these species above the Project's proposed avoidance and minimization measures, except for the population of small-flowered microseris potentially disturbed by road and pole construction within the MSHCP's Additional Reserve Lands (ARL) along Nichols Road. Preconstruction surveys will be conducted during the blooming season to confirm if the small-flowered microseris population has increased in size. A biological monitor will clearly mark the limits of the population and be present during construction to microsite vehicle staging to avoid individual plants. Construction will be conducted outside of the species blooming period (March-May) and will avoid wet soil conditions when work could result in damage to the soil, plants, and seed bank. In cases where plants are observed within the existing maintenance road, the Project will avoid plants in the road by working outside the blooming season and use mats to protect the seedbank in the road, if deemed an acceptable approach by RCA and the Wildlife Agencies. Small-flowered microseris plants along, but outside of the existing road right-of-way, will be avoided by micro-siting equipment and vehicles, installation of exclusion fencing around the population, and implementation of biological monitoring. If construction cannot avoid plants documented outside the existing road, work will be conducted outside the blooming season and mats will be laid down to protect the soil and seedbank. In the unlikely event there is damage to the soil to the point where the habitat is no longer suitable for the microseris, a separate Habitat Mitigation and Monitoring Plan (HMMP) or supplement to the approved HRRP would be prepared that includes requirements to restore the area of impact and/or expand the existing microseris population into adjacent suitable habitat following the completion of construction activities.

General Rare Plant Avoidance and Minimization Measures

Pre-construction surveys will identify any new locations and implement measures necessary to minimize impacts to special-status plant species consistent with MM BR-2, as applicable. Vehicles and equipment will follow the best management practices discussed in Project Commitment L (San Diego Ambrosia), MM BR-1 (Limit Construction to Designated Areas and Avoid Riparian, Aquatic, and Wetland Areas), and MM BR-4 (Limit Removal of Native Vegetation Communities and Trees) to minimizing disturbance footprints and avoid/reduce potential disturbance to special-status plant species. Although no oak tree impacts are anticipated, if any oak tree removal or trimming is determined necessary, it will be done in accordance with MM BR-6, including implementation of required mitigation. Additionally, biological construction monitoring will occur where special-status plants may occur on Phase 2 (MM BR-3) to avoid impacts to sensitive species and habitats. Avoidance and minimization measures to further reduce impacts to specialstatus plant species include Project Commitment B (WEAP), Project Commitment D (HRRP), MM BR-9 (Invasive Plant Control Measures), MM BR-13 (Trash Abatement), and MM BR-15 (SWPPP). All plant surveys have been completed as required by the MSHCP, mitigation has been proposed where applicable, and Coverage as a PSE is anticipated to be granted pursuant to the MSHCP. As such, no additional mitigation is required for these species even in the event of an unanticipated discovery during preconstruction surveys or during construction.

In summary, Phase 2 is consistent with the goals, objectives, and requirements of MSHCP Section 6.1.3 relative to the NEPSSA, MSHCP Section 6.3.2, and MSHCP ARL and PQP conserved lands. Further, the

two (2) individuals of Engelmann oak known to occur within the Phase 2 study area are not expected to be affected by the Project.

FAIRY SHRIMP SURVEYS

Phase 2 focused protocol-level fairy shrimp surveys were conducted within suitable habitat for a total of seven wet seasons between 2008 and 2018. Surveys were conducted by AMEC in 2008/2009, 2009/2010, 2011/2012, 2012/2013, and 2013/2014; by EI, Rincon Consultants, and Cooper Biological in 2016/2017; and by EI and Cooper Biological in 2017/2018.

Methods

Phase 2 wet season fairy shrimp surveys were conducted in accordance with the U.S. Fish and Wildlife Service (USFWS) 2015 Interim Survey Guidelines to Permittees for Recovery Permits under Section 10(a)(1)(A) of the Endangered Species Act for the Listed Vernal Pool Branchiopods. Per the guidelines, all depressions that held water and had potential to support listed vernal pool branchiopods species were mapped during surveys conducted for the VIG Project.

For the purposes of the focused fairy shrimp surveys, once the pools were inundated with at least 3 centimeters of water following a storm event, sampling was started within 8 days of reaching the criterion, and pools were sampled once every 2 weeks until the pools were no longer inundated (or until they experienced 120 days of continuous inundation). The depressions were initially scanned for presence of detectable invertebrates prior to physical sampling, then subsequently sampled throughout the water column following USFWS protocol guidelines. Depressions were sampled using a dip net with mesh size smaller than 3.2 millimeters. In cases where the pools dried and then refilled in the same wet season, pool sampling was repeated as described above every time they reached the 3 centimeters minimum of standing water criterion. Each seasonal depression was photographed and mapped, and at each subsequent visit, specific depression data and weather conditions were recorded.

Results

During focused, botanical surveys and protocol-level fairy shrimp surveys conducted in 2016/2017 and 2017/2018, topographic features that facilitate the temporary ponding of rainfall and are known to support vernal pool indicator species were mapped and surveyed to the extent practical. Due to the inaccessibility of several private properties, and because much of these areas are subject to frequent and repeated disturbances (i.e., annual disking/tilling), collection of vernal pool data in these areas was not feasible.

In 2017, two seasonally ponded areas with vernal pool indicator species were observed along Baker Street near Structures 401-403 (just south of Pierce Street; Map Pages 5 and 6), and one large pond was observed in a Riverside County conservation area at the intersection of Alberhill Ranch Road and Nichols Road near Structure 436 (Map Page 7). No impacts to the Riverside County conservation area feature are anticipated, as this feature is well outside the proposed impact areas. The vernal pools observed north and south of Baker Street are located outside the proposed impact areas and will therefore be avoided entirely during construction.

No federally-listed fairy shrimp species were observed within Segments 4-8 during wet season sampling; however, the common versatile fairy shrimp (*Branchinecta lindahli*) was observed present in many of the pools and depressions. Although dry season surveys were not conducted according to current survey guidelines, the Project site has been thoroughly evaluated during the four wet season surveys, which included several years of adequate rainfall, and provided consistent negative results.

Conclusions

No protected (listed) fairy shrimp species were detected within Phase 2 during the surveys. Therefore, no impacts to listed fairy shrimp species are expected to occur as a result of constructing Phase 2.

Construction work areas were designed to avoid all vernal pools. Avoidance and minimization measures to further reduce impacts to listed fairy shrimp species include implementation of Project Commitment B (WEAP), MM BR-2 (Pre-construction Surveys), MM BR-3 (Biological Monitoring During Construction),

MM BR-4 (Limit Removal of Native Vegetation Communities and Trees), MM BR-9 (Invasive Plant Control Measures), MM BR-13 (Trash Abatement), and MM BR-15 (SWPPP).

BURROWING OWL SURVEYS

Regarding Phase 2, a general habitat assessment for burrowing owl (BUOW; *Athene cunicularia*) was conducted by AMEC in 2006. Protocol-level focused surveys were conducted by AMEC in 2007, 2010, and 2011; by AMEC and Chambers Group in 2012; by AMEC and Pangea in 2013; by Pangea in 2014; by Kidd Biological in 2015; and by EI in 2017 and 2018.

Methods

BUOW habitat assessments and focused surveys were conducted according to the *Burrowing Owl Consortium Guidelines* (CDFG 1993), the *Burrowing Owl Survey Instructions for the Western Riverside Multiple Species Habitat Conservation Plan Area* (County of Riverside 2006), and the *Staff Report on Burrowing Owl Mitigation* (CDFG 2012). Data were collected by numerous techniques including the use of a hand-held GPS device, standardized data forms, photographs, and aerial field maps. Four surveys were conducted as follows: 1) at least one between February 15 and April 15, and 2) a minimum of three survey visits, at least three weeks apart, between April 15 and July 15, with at least one visit after June 15 (CDFG 2012). Potential habitat within the Project area was assessed for BUOW presence, use, and potential use. Areas with potential BUOW habitat, including grasslands, sage scrub, and other areas with sparse, low growing vegetation, were surveyed for potential burrows and BUOW. These surveys included California ground squirrel (*Otospermophilus beecheyi*) and ground squirrel burrow surveys. Biologists walked areas of potential habitat while searching for BUOW, potential and active burrows, and owl sign, such as feathers, pellets, and prey items. The survey area included a 150-meter (500-foot) buffer zone on either side of the centerline.

Focused BUOW surveys, conducted in areas where suitable burrows were found during the focused burrow surveys, consisted of eight site visits covering all Project areas four times. Surveys were conducted in the morning 1 hour before sunrise to 2 hours after sunrise. Upon arrival at the survey area and prior to initiating the walking surveys, surveyors used binoculars and/or spotting scopes to scan all suitable habitats, location of mapped burrows, owl sign, and owls, including perch locations to ascertain owl presence. A survey for owls and owl sign was then conducted by walking through suitable habitat over the entire Project site and within the adjacent 150-meter (500-foot) buffer zone on either side of the center line. These pedestrian surveys followed transects spaced to allow 100 percent visual coverage of the ground surface. The distance between transect center lines were no more than 20 meters (66 feet) and were reduced to account for differences in terrain, vegetation density, and ground surface visibility. In areas where access was not obtained, the area adjacent to the Project site was surveyed using binoculars and/or spotting scopes to determine if owls are present in areas adjacent to the Project site.

Results

Although many burrows suitable for BUOW and suitable habitat were identified, no BUOWs, active burrows, or BUOW sign were observed within the Project study area on Phase 2.

Conclusions

In accordance with MM BR-12, pre-construction surveys for BUOW will be conducted within 30 days of construction during the non-breeding season (September 1 through January 31) and within 14 days of construction during the breeding season (February 1 through August 31) to confirm whether BUOW occupy the site. If an occupied burrow is identified, buffer distances detailed in the Staff Report on Burrowing Owl Mitigation (CDFG 2012) shall be adhered to. Additionally, biological construction monitoring will occur during initial ground disturbance within Phase 2.

If appropriate buffers cannot be maintained, and impacts on BUOW or occupied burrows are unavoidable, a Determination of Biologically Equivalent or Superior Preservation (DBESP) shall be prepared and implemented in compliance with MSHCP Section 6.3.2, and as approved by CDFW and Regional Conservation Authority (RCA). If it is determined that project activities require removal of occupied

burrows, eviction and burrow closure may be required in consultation with CDFW to ensure against "take" of owls or nests. However, this will only occur after the preparation of a Burrowing Owl Exclusion Plan, as approved by CDFW.

Avoidance and minimization measures to further reduce impacts to BUOW include implementation of Project Commitment B (WEAP), MM BR-2 (Pre-construction Surveys), MM BR-3 (Biological Monitoring During Construction), MM BR-4 (Limit Removal of Native Vegetation Communities and Trees), MM BR-5 (California gnatcatcher protection measures), MM BR-9 (Invasive Plant Control Measures), MM BR-13 (Trash Abatement), and MM BR-15 (SWPPP).

CALIFORNIA GNATCATCHER

Coastal California gnatcatcher (*Polioptila californica californica*; CAGN) is a Covered Species in the MSHCP and is Adequately Conserved. Therefore, no focused surveys for CAGN were conducted.

Results

During general and other project-related biological resources surveys, CAGN has been detected on Phase 2 in areas of suitable habitat, particularly Riversidean sage scrub (RSS)/disturbed Riversidean sage scrub (DRSS; refer to Map Pages 3, 4, 6, 7, 12, and 13).

Conclusions

Because no focused surveys have been conducted for CAGN within the Project area, any sage scrub within the Criteria Area, if determined suitable by a qualified biological monitor, will be assumed occupied. In accordance with the MSHCP and MM BR-5 (California gnatcatcher protection measures), removal of RSS/DRSS habitat will not occur during the CAGN breeding season (February 15 through August 15). Vegetation clearing will be limited to the non-breeding season only.

If an active CAGN nest is observed during pre-construction surveys, a qualified avian biologist will establish a 500-foot buffer around the nest and no activities will be allowed within the buffer until the young have fledged and are no longer reliant on the nest. Vehicles and equipment will follow the best management practices discussed in MM BR-4 (Limit Removal of Native Vegetation Communities and Trees) and the VIG Nesting Bird Management Plan (NBMP) to avoid potential disturbance to CAGN. Additionally, biological construction monitoring will occur during initial work within the staging yards.

Avoidance and minimization measures to further reduce impacts to CAGN include implementation of Project Commitment B (WEAP), MM BR-2 (Pre-construction Surveys), MM BR-3 (Biological Monitoring During Construction), MM BR-9 (Invasive Plant Control Measures), MM BR-13 (Trash Abatement), and MM BR-15 (SWPPP).

RIPARIAN BIRDS

Within Phase 2, focused surveys for special-status riparian birds, including least Bell's vireo (*Vireo bellii pusillus*; LBVI), southwestern willow flycatcher (*Empidonax traillii extimus*; SWFL), and yellow-billed cuckoo (*Coccyzus americanus*; YBCU) were conducted by AMEC in 2007, 2010, 2011, 2012, 2013, and 2014; by Kidd Biological in 2015; and by Cooper Biological in 2017 and 2018.

Methods

Phase 2 focused surveys for LBVI, SWFL, and YBCU were conducted in accordance with the currently accepted survey protocols by USGS and USFWS permitted ornithologists.

The LBVI protocol requires at least eight surveys to be conducted between April 10 and July 31 (USFWS 2001). The SWFL protocol requires five surveys, and that the first survey be performed between May 15 and May 31, the second between June 1 and June 21, and that three visits be conducted between June 22 and July 17 (Sogge et al. 1997). The survey protocol for YBCU (Halterman et al. 2016) requires a total of four surveys during the breeding season in suitable habitat. The surveys must be completed at specific intervals within the season that includes one survey between June 15 and June 30, two surveys between July 1 and July 31, and one survey between August 1 and August 15, spaced 12-15 days apart.

The surveys consisted of slowly moving through each suitable habitat while listening for the songs and calls of the three target species (LBVI, SWFL, and YBCU). During the surveys performed for the SWFL and YBCU, taped recordings of their vocalizations were broadcast, a method consistent with the protocols. During the SWFL surveys, recordings of their vocalizations were broadcast every 20-30 meters, as required by protocol. During YBCU surveys, territorial calls ("Kowlp" calls) were broadcast every 100 meters, with the calls being repeated five times at one-minute intervals.

Results

Several riparian areas were identified with suitable habitat for LBVI, SWFL, and YBCU within Phase 2. These habitats generally occur along Temescal Creek and its larger tributaries. No YBCU were detected during any of the surveys conducted between 2006 and 2018.

During focused LBVI surveys conducted between 2007 and 2014, only singing males were detected and breeding success was not determined. In 2015, a total of eight territories were occupied by pairs, and four solitary males were observed in separate territories within the Project study area. In 2017, a total of 22 territories were documented, 12 were occupied by paired individuals (four were located just outside the survey area). Three pairs had a documented nest and evidence of successful breeding (i.e., fledgling[s] observed). In 2018, a total of 28 territories were documented, 16 were occupied by paired individuals (four were located just outside the survey area). Ten of these pairs had evidence of successful breeding. Refer to Map Pages 2 through 5, 8 through 14, and 18 through 19 for LBVI occurrences documented in Phase 2.

In 2015, surveys detected SWFL (solitary males) at two locations (Map Pages 4 and 17), and in 2007, four willow flycatchers of the more northerly subspecies (WIFL; *Empidonax trallii*; California Species of Concern) were detected in the Project area. In 2010 and 2011, one vocal WIFL was also detected, and in 2014, several WIFL were observed. In 2017, one WIFL (possibly the little willow flycatcher [*E. t. brewsteri*], which is also listed as endangered in California), was observed migrating through the Project area. Refer to Map Pages 4, 8, 10, 13, 14, and 17 for WIFL occurrences documented in Phase 2.

Impacts to LBVI occupied and potentially occupied habitat will be avoided to the greatest extent possible. Construction activities, including minimal tree trimming, will be conducted outside of the LBVI breeding season (generally 1 March through 31 August). Off-site mitigation proposed along Temescal Wash (i.e., Wyroc/Lake Street) is intended to ensure preservation of habitat for species such as LBVI. As such, the Project is consistent with MSHCP Section 6.1.2.

Conclusions

LBVI occupied habitat mapped throughout Phase 2 will be afforded a 500-foot avoidance buffer during the LBVI breeding season (generally March 1 through August 31) to minimize impacts to nesting birds. Construction activities in or within 500 feet of occupied habitat, including minimal tree trimming, will be conducted outside of the LBVI breeding season.

Avoidance and minimization measures to further reduce impacts to special-status riparian birds include implementation of Project Commitment B (WEAP), Project Commitment D (Habitat Restoration and Revegetation Plan), MM BR-1 (Limit Construction to Designated Areas and Avoid Riparian, Aquatic, and Wetland Areas), MM BR-2 (Pre-construction Surveys), MM BR-3 (Biological Monitoring During Construction), MM BR-4 (Limit Removal of Native Vegetation Communities and Trees), MM BR-7 (Habitat Restoration and Revegetation Plan Requirements), MM BR-9 (Invasive Plant Control Measures), MM BR-11 (Migratory Birds and Raptors Impact Reduction Measures), MM BR-13 (Trash Abatement), and MM BR-15 (SWPPP).

STEPHENS' KANGAROO RAT

Surveys for Stephens' Kangaroo Rat (*Dipodomys stephensi*; SKR) were conducted within Phase 2 in suitable habitat in 2010 and 2011 by AMEC.

Methods

Within Phase 2, habitat assessments and focused surveys were conducted following standard trapping protocol for SKR. Standard methods typically include examining aerial images to locate suitable habitat, followed up by field visits to identify the most promising trapping sites for SKR, installing and baiting traps, checking traps at midnight and dawn, and upon identification of captured individuals, releasing them unharmed at their capture sites.

Results

SKR individuals and associated burrows were identified within the Phase 2 study area (Maps Pages 5, 6, 7, 11, 14, and 15).

Conclusions

It should be noted that per the MSHCP Implementing Agreement, SCE understands that "take" for SKR is not available through the MSHCP as the proposed Project also lies within the SKR Habitat Conservation Plan (HCP) boundaries. As of October 15, 2012, SCE finalized an SKR HCP Implementation Agreement with the Riverside County Habitat Conservation Agency. This Agreement provides a process through which SCE may obtain take authorization of SKR through the SKR HCP. This take authorization is in accordance with the terms and conditions in the USFWS Management Authorization (or USFWS' Federal Permit), the SKR HCP, and the SKR HCP Implementation Agreement. To complete the SKR take authorization process prior to the start of construction, SCE will obtain a Certificate of Inclusion from the Riverside County Habitat Conservation Agreement.

Avoidance and minimization measures to further reduce impacts to SKR include implementation of Project Commitment B (WEAP), Project Commitment N (Wildlife Movement), MM BR-2 (Pre-construction Surveys), MM BR-3 (Biological Monitoring During Construction), MM BR-4 (Limit Removal of Native Vegetation Communities and Trees), MM BR-5 (California gnatcatcher protection measures), MM BR-9 (Invasive Plant Control Measures), MM BR-10 (Prevent Wildlife Entrapment), MM BR-13 (Trash Abatement), and MM BR-15 (SWPPP).

ADDITIONAL SURVEYS COMPLETED FOR THE CONCORDIA YARD

A habitat assessment was conducted on the northern portion of the Concordia Yard that was not included in the VIG Project Final Environmental Impact Report (FEIR).

HABITAT ASSESSMENT

A habitat assessment survey was conducted on December 10, 2019, by EI to document protected waters, bird nests, special-status plants and wildlife and potential habitat for special-status species.

Methods

A general habitat assessment, BUOW focused burrow survey, and formal jurisdictional delineation were performed by EI qualified biologists Mitch Provance and Joshua Zinn on December 10, 2019. The Concordia Yard survey area included the proposed Concordia Yard and a 500-foot buffer. The survey area only included northern areas that had not been previously surveyed for Phase 2 between 2006 and 2018 (Exhibit 2). The habitat assessment/burrow survey was conducted by walking meandering transects no more than 30 meters apart throughout the Concordia Yard survey area to document existing site conditions, to identify all potential natural and surrogate potential BUOW burrows/crevices and map vegetation communities. A jurisdictional delineation documented features that are potentially MSHCP Riparian/Riverine resources and/or are jurisdictional to the regulatory authorities. The methods used for these BUOW surveys and jurisdictional delineation followed the same methods detailed above in the Previously Completed Surveys section. Wildlife and plant species were recorded, including areas that provide suitable habitat (e.g., vegetation communities, rocky outcrops, burrow complexes, drainages, etc.) for any special-status plant and wildlife species. All special-status biological resources were documented if observed. Binoculars were used to scan for biological resources outside the buffer and in any inaccessible areas. This assessment was conducted outside the optimal flowering period for some special-status annual

plant species found in the region; however, many plants are often still recognizable by biologists proficient in identifying these species. Vegetation communities and all encountered sensitive biological resources were documented in the field using Collector for ArcGIS connected to an external receiver via Bluetooth, with accuracy to 3 meters.

Results

The Concordia Yard consists of relatively flat (less than 4% slope), previously graded and disked land dominated by bare ground and gravel, with widely scattered annual weedy species and refuse debris, and a concrete pad, best described as heavily disturbed with evidence of previous development. Plants observed within the Concordia Yard included recently germinated fiddleneck (*Amsinckia* sp.), cheeseweed mallow (*Malva parviflora*), Mediterranean grass (*Schismus* sp.), brome grass (*Bromus* sp.), short-podded mustard (*Hirschfeldia incana*), stinknet (*Oncosiphon piluliferum*), white horehound (*Marrubium vulgare*), tumble mustard (*Sisymbrium* sp.), and horseweed (*Erigeron* sp.).

West of the Concordia Yard, an ephemeral wash that conveys flows generally north to south consists of Riversidean alluvial fan sage scrub (RAFS; State Rarity: S3) dominated by scale broom (*Lepidospartum squamatum*), with California cholla (*Cylindropuntia californica*), white sage (*Salvia apiana*), tarragon (*Artemisia dracunculus*), spiny redberry (*Rhamnus crocea*), brittlebush (*Encelia farinosa*), Coulter's Matilija poppy, and linear leaved stillingia (*Stillingia linearfolia*). West of the Concordia Yard and the furthest extents of the buffer to the north and east consist of RSS dominated by brittlebush and California buckwheat (*Eriogonum fasciculatum*), with white sage, stinknet, California matchweed (*Guttierrzia californica*), short-podded mustard, and brome grass. The area within the survey buffer directly north and east of the Concordia Yard consists of DRSS dominated by brittlebush and linear leaved stillingia, with short-podded mustard, brome grass, dove weed (*Croton setiger*), and a few individuals of sweetbush (*Bebbia juncea*).

Wildlife observed included common species such as California towhee (*Melozone crissalis*), common raven (*Corvus corax*), mourning dove (*Zenaida macroura*), red-tailed hawk (*Buteo jamaicensis*), western kingbird (*Tyrannus verticalis*), and desert cottontail (*Sylvilagus audubonii*). No small rodent or suitable BUOW burrows were observed. No ponding or potential fairy shrimp habitat was observed. No nests were observed.

The Concordia Yard does not provide suitable habitat for any rare plant likely to occur in the region due to the lack of appropriate soils, topography, or hydrology and highly disturbed condition of the site. Coulter's matilija poppy (CRPR 4.2) was observed 75 feet east of the Concordia Yard in the ephemeral wash containing RAFS. No other special-status plant species were detected within 500 feet of the Concordia Yard.

One jurisdictional MSHCP Riparian/Riverine resource was mapped adjacent to the Concordia Yard. This resource is the northern extension of the wash previously mapped by EI in late-summer/early-fall of 2018 during a jurisdictional delineation. The limits by jurisdiction of this feature were updated during the December 2019 site visit. The unnamed drainage, observed east and entirely outside of the Concordia Yard, conveys flows generally north to south, contains RAFS vegetation, and was dry during the assessment.

SKR is likely to occur within suitable habitat surrounding the Concordia Yard, but is unlikely to occur within the yard as no habitat is present.

BUOW is not expected to occur within the Concordia Yard as no individuals or burrows suitable to support BUOW were observed during the habitat assessment and focused BUOW burrow survey conducted by EI on December 10, 2019. Surrounding areas consisting of DRSS north of the yard, RSS to the west, and RAFS to the east provides potential foraging habitat; however, there is no breeding habitat as no suitable burrows or individuals of California ground squirrel were observed during the survey.

No suitable habitat for special-status riparian birds was observed within 500 feet of the Concordia Yard or in the yard itself. RSS west of the yard and DRSS to the north provides marginal suitable habitat for CAGN

however, no individuals of CAGN were detected during the habitat assessment and habitat is not present within the yard.

Within and surrounding the Concordia Yard, no vernal pools and/or other differentially saturated areas with the potential to support fairy shrimp were present. Therefore, no impacts to listed fairy shrimp species are expected as a result of using the Concordia Yard for staging approved materials and equipment for the duration of the project.

Conclusions

Species-specific surveys are required for projects occurring within an MSHCP-designated Survey Area if species-specific habitat conditions are present within the project area. The proposed Concordia Yard is located within the MSHCP Criteria Area Species Survey Area (CASSA), Narrow Endemic Plant Species Survey Area (NEPSSA), and Burrowing Owl Survey Area. However, because no suitable habitat for Criteria Area Species and Narrow Endemic Species with the potential to occur within the vicinity is present within the Concordia Yard, focused surveys are not recommended. No state- or federally listed plant or wildlife species were observed or are expected to occur. One CNPS-listed plant, Coulter's matilija poppy, was observed east and well outside of the Concordia Yard, but no habitat for rare plants exists on the Concordia Yard. Marginally suitable habitat for CAGN is present north and west of the Concordia Yard. No nests or nesting activities were observed during the survey. Nonetheless, pre-construction surveys will identify any new special-status species locations and measures will be implemented as necessary to minimize impacts consistent with Project Commitments and mitigation measures listed above for each species. Pre-construction surveys for special-status plant and wildlife species will be completed within two weeks of the start of construction in any given project construction area, and again if work has lapsed for longer than 30 days. Pre-construction surveys for BUOW will be conducted by a qualified biologist within 30 days of construction during the non-breeding season and within 14 days of construction during the breeding season (February 1 through August 31) to confirm whether burrowing owls occupy the site.

REMAINING PRE-CONSTRUCTION SURVEYS

Prior to the start of construction at each specific work location, pre-construction surveys will be conducted to determine the presence of special status plants, noxious weeds, and all wildlife species for the purpose of preventing direct loss of vegetation and wildlife and the spread of noxious plant species. Pre-construction surveys will be performed according to the following guidelines:

- <u>MM BR-2: Pre-construction Surveys</u>
 - Survey area Pre-construction surveys for special-status plant and wildlife species, and invasive plants/noxious weeds shall include all disturbance areas where potential biological resources could be located, including all Structure Work Areas, Pull Sites, Staging Areas, Access Roads, etc. Pre-construction surveys will also document the composition of the vegetation communities within work areas to establish baseline conditions prior to construction and to guide post-construction restoration efforts.
 - Timing Pre-construction surveys shall be completed within two weeks of the start of construction in any given project construction area, and again if work has lapsed for longer than 30 days.
 - Reporting Special-status species and other protected biological resources observed during pre-construction surveys shall be documented by biologists in the SCE Field Reporting Environmental Database (FRED). Appropriate disturbance-free buffers will be established in the field.
- MM BR-12: Burrowing Owl Impact Reduction Measures
 - Survey area Pre-construction surveys for BOUW shall be performed throughout the project areas that contain suitable BUOW habitat with a potential to be affected by

construction activities, plus an additional area extending 300 feet from the Projects' boundaries.

- Timing Pre-construction surveys for BUOW will be conducted by a qualified biologist within 30 days of construction during the non-breeding season and within 14 days of construction during the breeding season (February 1 through August 31) to confirm whether burrowing owls occupy the site.
- Reporting Special-status species and other protected biological resources observed during pre-construction surveys shall be documented by biologists in FRED. If an occupied burrow is identified, buffer distances detailed in the Staff Report on Burrowing Owl Mitigation (CDFG 2012) shall be adhered to.
 - If appropriate buffers cannot be maintained, and impacts on BUOW or occupied burrows are unavoidable, a DBESP shall be prepared and implemented in compliance with MSHCP Section 6.3.2, and as approved by CDFW and RCA. If, in consultation with CDFW it is determined that project activities require removal of occupied burrows, eviction and burrow closure may be required to prevent "take" of owls or nests. However, this will only occur after the preparation of a CDFW-approved Burrowing Owl Exclusion Plan.

REPORTING

All field observations and data will be reported using a web-based database system, FRED. This system has been verified, tested, and used to successfully monitor the regulatory compliance of large-scale projects. FRED will organize and track the resources throughout the VIG Project, and allow secure web access to continuously update field observation data and reporting functions to project compliance staff and agencies. Regular reporting will be established and generated via FRED and include pre-construction survey reports, daily monitoring reports, and weekly and monthly summary reports.

WORKER ENVIRONMENTAL AWARENESS PROGRAM

In accordance with Project Commitment B, SCE has prepared and will implement a WEAP for the VIG Project. Construction crews and contractors will be required to participate in the WEAP training prior to starting work on the VIG Project. SCE will provide the WEAP training to communicate VIG's environmental concerns, including a discussion of the special-status species and other protected resources that could exist in the VIG Project area and vicinity, all related mitigation measures, and the appropriate work practices necessary to protect resources that may be encountered during the course of the VIG Project.

RESTORATION AND INCIDENTAL TAKE PERMIT

In accordance with Project Commitment D, MM BR-4, MM BR-6, MM BR-7, and MM BR-8, all temporary impacts will be restored to pre-construction conditions or better. Restoration will follow an approved Habitat Restoration and Revegetation Plan (HRRP; MM BR-7). Temporary impacts to MSHCP Public/Quasi Public conserved lands and Additional Reserve Lands will be restored and mitigated per an approved HRRP. If any oak tree removal or trimming is determined necessary, it will be done in accordance with MM BR-6, including implementation of required mitigation.

The Phase 2 Participating Special Entity (PSE) application is currently under RCA review. The Phase 2 Certificate of Inclusion (COI) is expected in 2020.

CONSTRUCTION MONITORING

In accordance with MM BR-3, a qualified biological monitor will be present during construction activities. Once initial ground disturbance is complete, monitoring will occur periodically during all construction activities. Daily monitoring reports, as well as any special-status plants or wildlife species, breeding birds, or incidents that are observed during daily monitoring, will be documented in FRED.
The monitor will have the authority to temporarily stop work that he or she determines to be threatening to a special-status plant or wildlife species or nesting bird. The monitor will determine the appropriate action, and work will resume once the monitor determines there is no longer a threat to the special-status species or approval has been obtained from the appropriate wildlife agencies or CPUC.



Project Structures	Access Roads	🔛 Trenching	★ Lawrence's Goldfinch
Pullbox	0: No Improvement	Material Yard	Sensitive Plant Polygons
🖶 Vault	Construction Work Areas	Bird Nests	Paniculate Tarplant
Subtransmission Alignment	CPUC Buffer	🕂 Great Horned Owl	Robinson's Peppergrass
	\sub Pull Site	Sensitive Species Data	Smooth Tarplant
	🖾 Structure Work Area	🛧 California Horned Lark	MSHCP Riparian/Riverine Resources
	SKR Buffer	🖈 Cooper's Hawk	MSHCP Riparian/Riverine Resources
Ехніві	т 1. NTPR #	2 BIOLOGICA	L RESOURCES (PAGE 1 OF 20)
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Project Structures	Access Roads	Trenching	☆	Least Bell's Vireo	MSHCP Riparian/Riverine Resources
O Monopole - Wood	0: No Improvement	Material Yard	☆	Peregrine Falcon	MSHCP Riparian/Riverine Resources
Pullbox	Construction Work Areas	Sensitive Plant Points	☆	San Diego Black-tailed Jackrabbit	
🖶 Vault	CPUC Buffer	Paniculate Tarplant	☆	Yellow Warbler	
Subtransmission Alignment	\sub Pull Site	Smooth Tarplant	Sen	sitive Plant Polygons	
	Structure Work Area	Sensitive Species Data		Paniculate Tarplant	
— VIG4, UG	SKR Buffer	🛠 California Horned Lark		Smooth Tarplant	



EXHIBIT 1. NTPR #2 BIOLOGICAL RESOURCES (PAGE 2 OF 20) VALLEY-IVYGLEN SUBTRANSMISSION PROJECT | RIVERSIDE COUNTY, CA







vj		Subtransmiss
	Guard Pole	- VIG4, OH
\Im	Guy Anchor	— VIG4, UG
•	Monopole - LWS	Telecom Aligi
•	Monopole - TSP	Overhea
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VALLEY-IVYGLEN SUBTRANSMISSION PROJECT | RIVERSIDE COUNTY, CA 1:3,600



Palmer's Grapplinghook

Paniculate Tarplant

Round-Leaved Filaree

MSHCP Riparian/Riverine Resources



★ San Diego Black-tailed Jackrabbit

Southwestern Willow Flycatcher

★ Summer Tanager

Smooth Tarplant

Cooper's Hawk

Bird Nests

Subtransmission Alignment

VIG4, OH

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Construction Work Areas

Anchor Work Area

CPUC Buffer

Access Roads

Material Yard







Project Structures

- ⊗ Guy Anchor
- Monopole LWS
- Monopole TSP
- O Monopole Wood
- VIG4, OH

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- -- Overhead Fiber Optic Cable
- -- Underground Fiber Optic in new conduit
- Access Roads
- ----- 0: No Improvement
- Subtransmission Alignment -- 1: Overland Travel

- Anchor Work Area CPUC Buffer
- Pole Impact Areas **VIII** Site
- Structure Work Area
- Telcom Pull Site
- Sensitive Plant Points
- San Jacinto Valley Crownscale
- **Sensitive Species Data** ★ Least Bell's Vireo
- ★ Prairie Falcon

- 🛧 Yellow Warbler Sensitive Plant Polygons
- Coulter's Goldfields Little Mousetail
- Paniculate Tarplant
- 🖈 San Diego Black-tailed Jackrabbit 📰 San Diego Ambrosia
- Small-Flowered Microseris Small-Flowered Moming-Glory
- MSHCP Riparian/Riverine Resources
- MSHCP Riparian/Riverine Resources

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EXHIBIT 1. NTPR #2 BIOLOGICAL RESOURCES (PAGE 5 OF 20) VALLEY-IVYGLEN SUBTRANSMISSION PROJECT | RIVERSIDE COUNTY, CA







		Pole Impact Areas	Drainage Control Features	Sensitive Species Data	San Diego Brack-tailed
nent	2: Minimum Improvement	🖂 Pull Site	SSS Culvert	🛧 Californi a Gnatcatche r	★ Stephens' Kangaroo Ra
	=== 5: Design Road	KX Structure Work Area	Ditch	🛠 California Horned Lark	🛠 Yellow Warbler
		Telcom Pull Site	Gabion Basket	🖈 Cooper's Hawk	
Ή	івіт 1. NTPR #2		AL RESOURC	CES (PAGE 6	of 20)
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- VIG5, OH

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- - 🔀 Guard Site

- Sensitive Species Data
- ★ Belding's Orange-throated Whiptail

- EXHIBIT 1. NTPR #2 BIOLOGICAL RESOURCES (PAGE 8 OF 20) VALLEY-IVYGLEN SUBTRANSMISSION PROJECT | RIVERSIDE COUNTY, CA



600 Feet 1 in = 300 feet

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EXHIBIT 1. NTPR #2 BIOLOGICAL RESOURCES (PAGE 9 OF 20) VALLEY-IVYGLEN SUBTRANSMISSION PROJECT | RIVERSIDE COUNTY, CA



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600 Feet 1 in = 300 feet















oj	ect Structures	Telecom Alignment
2	GuyAnchor	Overh ead Fiber Optic Ca
	Monopole - LWS	Access Roads
)	Monopole - TSP	0: No Improvement
)	Monopole - Wood	
b	transmission Alignment	2: Minimum Improvemen
_	VIG5, OH	=== 5: Design Road
_	VIG6, OH	Construction Work Areas
		Anchor Work Area

	CPUC Buffer
able	General Disturbance A
	🔀 Pole Impact Areas
	🔀 Pull Site
	Structure Work Area
ent	Telcom Pull Site
	Tree Trimming Area
	SKR Buffer
	Access Roads

	Civil Design
ce Area	Grading Limit
	Ground Disturbance A
	Drainage Control Features
ea	Gabion Basket
	McCarthy Drain Single
а	🖾 Rip Rap
	Sensitive Plant Points





Project Structures	Telecom Alignment	CPUC Buffer	Ci
Guard Pole	Overhead Fiber Optic Cable	Cuard Site	Œ
⊗ Guy Anchor	Access Roads	🔯 Pole Impact Areas	¢
 Mono pole - LWS 	0: No Improvement	🖂 Pull Site	D
Mono pole - TSP	1: Overland Travel	Structure Work Area	
O Mono pole - Wood	2: Minimum Improvement	SKR Buffer	[:
Subtransmission Alignment	=== 5: Design Road	Access Roads	Þ
VIG6, OH	Construction Work Areas	Material Yard	S
VIG7, OH	Anch or Work Area		(
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Buffer	Civil Design
Site	Grading Limit
pactAreas	Ground Disturbance
!	Drainage Control Featur
e Work Area	Gabion Basket
ffer	McCarthy Drain Sin
Roads	Rip Rap
Yard	Sensitive Plant Points
	Coulter's Matilija Po

	Long-Spined Spi	neflo
Area	🔵 Munz's Onion	
res	White Rabbit-Tob	acco
	Bird Nests	
gle	Least Bell's Vired)
	Sensitive Species Da	ata
	🛧 Belding's Orange	e-thro

- - MSHCP Riparian / Riverine Resources

EXHIBIT 1. NTPR #2 BIOLOGICAL RESOURCES (PAGE 14 OF 20) VALLEY-IVYGLEN SUBTRANSMISSION PROJECT | RIVERSIDE COUNTY, CA



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Project Structures	
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- Guard Pole
- Suy Anch c
- Monopole • Mono pole
- Mono pole
- Subtrans mis sid
- VIG7, OH

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or	Access Roads
- LWS	0: No Improveme
- TSP	1: Overland Trav
- Wood	=== 5: Design Road
on Alianment	Construction Work A

Anch or Work Area

CPUC Buffer

- – Overhead Fiber Optic Cable **EXA** Pole ImpactAreas Structure Work Area mp rove men t rland Travel Civil Design ion Work Areas
 - Telcom Pull Site SKR Buffer Access Roads Ground Disturbance Area
- O Coulter's Matilija Poppy Engelmann Oak
- Long-Spined Spineflower O Munz's Onion
- Sensitive Species Data
- 🛧 Cooper's Hawk
- 🛧 Oak Titmouse
- ★ Red-Diamond Rattlesnake Peninsular Spineflower
- 🖈 Stephens' Kangaroo Rat 🛠 Yellow Warbler Sensitive Plant Polygons
- Coulter's Matilija Poppy
- Long-spined spineflower Munz's Onion
- Palmer's Grapplinghook
- Slender-Horn ed Spineflower Small-Flowered Microseris Small-Flowered Morning-Glory
 - MSHCP Riparian/Riverine Resources
 - MSHCP Riparian/Riverine Resources

EXHIBIT 1. NTPR #2 BIOLOGICAL RESOURCES (PAGE 15 OF 20) VALLEY-IVYGLEN SUBTRANSMISSION PROJECT | RIVERSIDE COUNTY, CA







- 🖶 Vault
- VIG7, OH
- ----- 0: No Improvement
- -- 1: Overland Travel Subtrans mission Alignment - - 2: Minimum Improvement = 5: Design Road
- K Pull Site Structure Work Area Telcom Pull Site
- Sensitive Plant Points Chaparral Sand Verbena See Vault Work Area Peninsular spineflower
- Belding's Orange-throated Whiptail 🛧 Cooper's Hawk
 - 🛧 Osprey 🖈 Red-Diamond Rattlesnake
- ★ Yellow Warbler Sensitive Plant Polygons
- Coulter's Matilija Poppy Munz's Onion
- Small-Flowered Morning-Glory White Rabbit-Tobacco MSHCP Riparian/Riverine Resources MSHCP Riparian/Riverine Resources

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EXHIBIT 1. NTPR #2 BIOLOGICAL RESOURCES (PAGE 16 OF 20) VALLEY-IVYGLEN SUBTRANSMISSION PROJECT | RIVERSIDE COUNTY, CA

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600 Feet 1 in = 300 feet



Project Structures	Te lecom Al ignment	C Pull Site	Bird Nests	🛧 San Diegan Tiger Whiptail	Munz's Onion
Guard Pole	Underground Fiber Optic in existing conduit	XX Structure Work Area	🕂 Cooper's Hawk	★ Sharp-shinned Hawk	Palmer's Grapplinghook
⊗ Guy Anchor	AccessRoads	Vault Work Area	🕂 Least Bell's Vireo	★ South western Willow Flycatcher	Small-Flowered Microseris
Monopole - TSP	0: No Improvement	SKR Buffer	Sensitive Species Data	★ Stephens' Kangaroo Rat	Small-Flowered Morning-Glory
O Monopole - Wood	Construction Work Areas	E Trenching	🛠 Belding's Orange-throated Whiptail	🛠 Swain son's Hawk	White Rabbit-Tobacco
H Vault	Anchor Work Area	Sensitive Plant Points	🛠 California Horned Lark	🛠 Willow Flycatcher	MSHCP Riparian/Riverine Resources
Subtransmission Alignment	CPUC Buffer	Chaparral Sand Verbena	🛧 Least Bell's Vireo	🛠 Yellow Warbler	MSHCP Riparian/Riverin e Resources
VIG7, OH	CC Guard Site	Small-Flowered Microseris	🛠 Red-Diamond Rattlesnake	Sensitive Plant Polygons	
VIG8, UG	Nole Impact Areas	White Rabbit-Tobacco	🛠 Rufous-crowned Sparrow	Coulter's Matilija Poppy	



EXHIBIT 1. NTPR #2 BIOLOGICAL RESOURCES (PAGE 17 OF 20) VALLEY-IVYGLEN SUBTRANSMISSION PROJECT | RIVERSIDE COUNTY, CA

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EXHIBIT 1. NTPR #2 BIOLOGICAL RESOURCES (PAGE 18 OF 20) VALLEY-IVYGLEN SUBTRANSMISSION PROJECT | RIVERSIDE COUNTY, CA

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Telecom Alianment			

ccess Roads
— 0: No Improvem







Project Structures	Subtransmission Alignment	Access Roads	🐼 Guard Site	Bird Nests	🖈 San Diegan Tiger Whiptail
Guard Pole	VIG8, OH	0: No Improvement	区 Pole Impact Areas	🕂 Red-Tailed Hawk	🛠 🛛 Western Spadefoot Toad
Manhole	— VIG8, UG	1: Overland Travel	Structure Work Area	Sensitive Species Data	★ Yellow Warbler
Monopole - TBD	Telecom Alignment	Waters Work Areas	🔝 Tree Trimming Area	ጵ 🛛 Belding's Orange-throated Whiptail	Sensitive Plant Polygons
 Monopole - TSP 	Underground Fiber Optic in existing conduit	Excluded from NTPR #2	Vault Work Area	🛠 Cooper's Hawk	Coulter's Matilija Poppy
O Monopole - Wood	Underground Fiber Optic in new conduit	Construction Work Areas	SKR Buffer	🛠 🛛 Los Angeles Pocket Mouse	MSHCP Riparian/Riverine Resources
🖶 Vault		CPUC Buffer	Trenching	★ Rufous-crowned Sparrow	MSHCP Riparian/Riverine Resources



EXHIBIT 1. NTPR #2 BIOLOGICAL RESOURCES (PAGE 20 OF 20) VALLEY-IVYGLEN SUBTRANSMISSION PROJECT | RIVERSIDE COUNTY, CA

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Attachment B Cultural Resources Review



May 8, 2020

Matt Hooge Senior Environmental Manager Wilson Construction Company 1190 NW 3rd Avenue Canby, OR 97013 E: mhooge@wilsonconst.com

RE: Cultural Resources Notice to Proceed Request #2 for the Concordia Yard and Added Workstations for the Southern California Edison Valley Ivyglen Subtransmission Line Project, Riverside County, California

Southern California Edison Company (SCE) is proposing construction of the Valley-Ivyglen (VIG) 115 Kilovolt (kV) Subtransmission Line Project (Project), which entails a new, single circuit 115-kV subtransmission line to connect the existing Valley Substation (in Menifee, California) to the existing Ivyglen Substation (near Lake Elsinore, California) in western Riverside County. Paleo Solutions, Inc. (Paleo Solutions) has been contracted by Wilson Construction Company (Wilson) to complete field surveys and inventories of new Project areas and amend the Cultural Resources Monitoring and Treatment Plan (CRMTP) to reflect the current Project design and results of new surveys.

This memorandum summarizes the results of the cultural resources investigations conducted to date and includes an analysis of the proposed use of the Concordia Yard and added workstations along Segments VIG4 through VIG8. This memorandum was completed in accordance with the California Environmental Quality Act (CEQA), the stipulations and Mitigation Measures (MMs) included in the Cultural Resources section of the Project's Final Environmental Impact Report (FEIR) (Ecology and Environment, Inc. [E & E] 2017 and E & E 2018), and the CRMTP (Chandler and Denniston 2020).

1.0 PROJECT LOCATION AND DESCRIPTION

The Valley-Ivyglen Project spans from the existing Valley Substation in the City of Menifee to the existing Ivyglen Substation to the west (Attachment A: Figure A-1). The Project consists of eight segments (VIG1 through VIG8) and will be constructed in two phases: Phase 1 consists of Segments VIG1, VIG2, and VIG3 (approximately 13.1 miles) and Phase 2 consisting of Segments VIG4 through VIG8 (approximately 11.5 miles). The Valley-Ivyglen Project crosses Interstate 215 (I-215), State Route 74 (SR-74), and Interstate 15 (I-15). Fiber optic lines will be installed overhead on the proposed structures and underground in new and existing conduits.

The Valley-Ivyglen Project will involve:

- Construction of a new, single-circuit 115-kV subtransmission line and fiber optic line.
- Installation of overhead fiber optic lines on the proposed structures and underground in new (approximately 5,400 feet) and existing (approximately 13,200 feet) conduit.



- Transfer of existing distribution circuits along portions of the proposed subtransmission line to new 115-kV structures or to underground positions.
- Installation of new 115-kV switching and protective equipment at Valley and Ivyglen substations.

The current Notice to Proceed Request (NTPR) #2 covers the Concordia Yard and added work areas along Segments VIG4 through VIG8 (Phase 2). Segments VIG1, VIG2, and VIG3 (Phase 1) were captured under NTPR #1 (Chandler 2020a).

Segment VIG4

This segment will extend along Third Street from Collier Avenue southwest to Pasadena Avenue and then follow Pasadena Avenue northwest until the road ends. From there, it will pass over land to Riverside Drive (SR-74), extend southwest to Baker Street, and then follow Baker Street northwest to Pierce Street. It will pass under the Valley–Elsinore–Fogarty 115-kV line as it approaches Pierce Street. Segment VIG4 will follow an existing distribution line right-of-way (ROW), and in these areas, the existing distribution line will be relocated to an overhead position on a lower section of the new 115-kV structures. Guy poles will be installed in locations where the proposed 115-kV structures require additional support.

Segment VIG5

This segment will continue from Pierce Street across Nichols Road and then extend west along Nichols Road to the abandoned section of Lake Street ("Old Lake Street"). It will extend northwest along Old Lake Street toward I-15. Segment VIG5 will continue parallel to Lake Street to the I-15 on- and off-ramps. The segment will turn west along an I-15 off-ramp and then along both sides of Temescal Canyon Road for approximately 0.3 miles. From there, it will cross I-15 to the north and then continue west along Concordia Ranch Road to the proposed Alberhill Substation site. A number of guy poles will be installed in locations where the proposed 115-kV structures require additional support. VIG5 will follow existing distribution line ROWs, and in these areas, the existing distribution line will be relocated to an overhead position on a lower section of the new 115-kV structures.

Segment VIG6

This segment will continue along Temescal Canyon Road west to Hostettler Road from where Segment VIG5 crosses I-15. From there, it will extend over land northwest along I-15. Sections of Segment VIG6 will follow an existing distribution line ROW or the 115-kV ROW. The existing distribution line will be relocated to an overhead position on a lower section of the new 115-kV structures.

Segment VIG7

This segment will cross Horse Thief Canyon Road and continue along De Palma Road for approximately 1.2 miles. From there, it will cross I-15 to the north and extend to Temescal Canyon Road. It will continue northwest on Temescal Canyon Road to a point approximately 700 hundred feet northwest of the intersection of Temescal Canyon Road and Indian Truck Trail. The existing single-circuit 115-kV structures will be replaced with double-circuit 115-kV structures. Sections of Segment VIG7 will follow existing distribution line ROWs, and the existing overhead distribution line will be relocated to an overhead position on a lower section of the new 115-kV structures.

Segment VIG8

Along 115-kV Segment VIG8, the fiber optic line will primarily be installed underground along this segment. Approximately 10,670 feet of fiber optic cable will be installed in an existing underground conduit along Campbell Ranch Road, beginning approximately 850 feet east of Santiago Canyon Road, to Ivyglen Substation. An additional approximately 1,497 feet of fiber optic cable will be installed in a new underground conduit along Temescal Canyon Road from Campbell Ranch Road to Ivyglen Substation.



Concordia Yard

The Concordia Yard is a previously graded area located off of Concordia Ranch Road and Black Powder Road at the western portion of the VIG Project alignment (see Attachment A: Figure A-2). The yard will be used for material staging and will be enclosed with a fence. Wilson will use equipment to spread 3 inches of gravel over the surface of the yard and to auger holes to install perimeter fencing. At the end of the Project, front-end loaders and other equipment will be used to remove the gravel. Ground disturbance in native sediments within the Concordia Yard will be limited to augering 12-inch diameter holes.

Workstations

Construction work within the workstations include the placement of additional pole structures and the installation of guy anchors. This will require ground-disturbing activities at each workstation. The Concordia Yard and added work locations are depicted in Attachment A: Figures A-3 through A-31.

2.0 CULTURAL RESOURCES INVESTIGATION

The Study Area for cultural resources is defined as all areas that will be subject to ground disturbing activity associated with development of the proposed Project, along with a 100-foot buffer. The Study Area for cultural resources includes all proposed tower locations, access roads and ROWs, staging yards, pull sites, subtransmission lines, telecommunications lines, and underground trenching. For Segments VIG4 through VIG8, the Study Area extends approximately 11.5 miles in length.

The original cultural resource survey was completed in 2006 by Lerch and Gray. This initial survey covered the preferred route for the proposed Project, seven alternative route segments, and a 133-acre area adjacent to the preferred route. Additional surveys were conducted to cover new or modified elements of the proposed project (Pollock n.d., Chmiel and Cooley 2008, Craft and Cooley 2008, Wilson and Eckhardt 2009, Brodie 2011a, Brodie 2011b, Brodie 2011c, Glentis 2011a, Glentis 2011b, Brodie 2012, McLean and Brodie 2012, Miller 2013, Wilson and Gibson 2013, Millington and Elzinga, 2015, Chandler 2020a, and Chandler 2020b). One cultural resources inventory encompassing the Concordia Yard was completed in 2020 with negative results (Chandler 2020c).

Of the added Project locations along VIG4 through VIG8, 12 work areas totaling 0.62 acre, were not included in previous investigations (Attachment A: Figures A-32 to A-35). As part of the current assessment, a field survey of the 0.62-acre was conducted by Paleo Solutions archaeologist, Liz Denniston on May 5, 2020 (Denniston 2020). Accessible portions of the work locations were surveyed using transect intervals spaced 10 meters apart. Surveyed areas were closely inspected for evidence of prehistoric or historic-age archaeological materials and historic-age structures or features.

3.0 RESULTS AND RECOMMENDATIONS

A cultural resources assessment encompassing the Concordia Yard was completed in 2020 with negative results (Chandler 2020c). The Concordia Yard has been previously disturbed, and ground disturbance in native sediments will be limited to augering 12-inch diameter holes around the perimeter of the Yard for the installation of fencing. No cultural resources have been identified within the yard. As a result, fencing and use of the yard will not results in any impacts to cultural resources. Therefore, there will be no impacts to cultural resources from use of the yard.

As a result of the 2006 to 2020 investigations along the Project alignment, a total of 18 cultural resources were identified within 100 feet of Segments VIG4 through VIG8. As a result of the 2020 investigation of the added 0.62 acre, one additional, previously-recorded resource was identified within the newly established Study Area. Of these 19 resources, 10 are recommended not eligible for the California Register of Historical



Resources (CRHR), one is located near a proposed access road but more than 100 feet from active construction, and four are built environment resources that will not be impacted by construction activities. No mitigation measures will be required for these 15 resources. Impacts may occur at the remaining four resources. To avoid inadvertent impacts to these four resources, an Environmentally Sensitive Area (ESA) will be established and archaeological and Native American spot checking or monitoring will be conducted during all construction activities within 100 feet of the resources, as outlined in the Project's CRMTP (Chandler and Denniston 2020). With implementation of these mitigation measures, use of the Concordia Yard and added work areas will not result in any significant impacts to cultural resources.

Sincerely,

Liz Denniston Principal Archaeologist, Paleo Solutions

Attachments: Attachment A Project Maps



4.0 **REFERENCES CITED**

- Brodie, Natalie. 2011a. Cultural Resources Study of Proposed Access Roads, Alternative Pole Locations, Pulling Locations, and Alternative Corridors for the Serrano–Valley 500-kV Transmission Line Project, Riverside County, CA. LSA Associates, Inc., Carlsbad, CA.
- Brodie, Natalie. 2011b. Ivy-Glen Subtransmission Project, Additional Survey for Three Proposed Poles on the Pawnee 12kV Reconductor Project Connection to Valley Ivy-Glen, Lake Elsinore, Riverside County, California (LSA Project No. SCE1107, Purchase Order No. 4500432638, Valley). LSA Associates, Inc., Carlsbad, CA.
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ATTACHMENT A: Project Maps





Figure A-1. Project Vicinity Map.

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Figure A-2. Concordia Yard Location Map.





Figure A-3. Project Location Map. Page 1 of 29.



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Figure A-4. Project Location Map. Page 2 of 29.





Figure A-5. Project Location Map. Page 3 of 29.



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Figure A-6. Project Location Map. Page 4 of 29.





Figure A-7. Project Location Map. Page 5 of 29.




Figure A-8. Project Location Map. Page 6 of 29.





Figure A-9. Project Location Map. Page 7 of 29.





Figure A-10. Project Location Map. Page 8 of 29.





Figure A-11. Project Location Map. Page 9 of 29.





Figure A-12. Project Location Map. Page 10 of 29.



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Valley-Ivyglen 115-kV Subtransmission Line Project	~50DD	VIG8
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Figure A-13. Project Location Map. Page 11 of 29.





Figure A-14. Project Location Map. Page 12 of 29.





Figure A-15. Project Location Map. Page 13 of 29.





Figure A-16. Project Location Map. Page 14 of 29.





Figure A-17. Project Location Map. Page 15 of 29.





Figure A-18. Project Location Map. Page 16 of 29.



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Figure A-19. Project Location Map. Page 17 of 29.





Figure A-20. Project Location Map. Page 18 of 29.





Figure A-21. Project Location Map. Page 19 of 29.





Figure A-22. Project Location Map. Page 20 of 29.



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Figure A-23. Project Location Map. Page 21 of 29.





Figure A-24. Project Location Map. Page 22 of 29.





Figure A-25. Project Location Map. Page 23 of 29.



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Figure A-26. Project Location Map. Page 24 of 29.





Figure A-27. Project Location Map. Page 25 of 29.





Figure A-28. Project Location Map. Page 26 of 29.





Figure A-29. Project Location Map. Page 27 of 29.





Figure A-30. Project Location Map. Page 28 of 29.





Figure A-31. Project Location Map. Page 29 of 29.





Figure A-32. Project Added Survey Area. Page 1 of 4.











Figure A-34. Project Added Survey Area. Page 3 of 4.





Figure A-35. Project Added Survey Area. Page 4 of 4.

Attachment C Paleontological Resources Review



May 12, 2020

Matt Hooge Senior Environmental Manager Wilson Construction Company 1190 NW 3rd Avenue Canby, OR 97013 E: mhooge@wilsonconst.com

RE: Paleontological Resources Notice to Proceed Request #2 for the Concordia Yard and Added Workstations for the Southern California Edison Valley Ivyglen Subtransmission Line Project, Riverside County, California

Southern California Edison Company (SCE) is proposing construction of the Valley-Ivyglen (VIG) 115 Kilovolt (kV) Subtransmission Line Project (Project) which entails a new, single circuit 115-kV subtransmission line to connect the existing Valley Substation (near Perris, California) to the existing Ivyglen Substation (near Lake Elsinore, California) in western Riverside County. Paleo Solutions, Inc. (Paleo Solutions) has been contracted by Wilson Construction Company (Wilson) to complete field surveys and inventories of new Project areas and amend the Paleontological Resources Monitoring Plan (PRMP) to reflect the current project design and results of new surveys.

This paleontological memorandum summarizes the results of the paleontological resources investigations to date and includes an analysis of the proposed use of the Concordia Yard and added workstations along Segments VIG4 through VIG8. This memorandum was completed in compliance with Project Commitment B and Mitigation Measure (MM) CR-4 and MM CR-5 of the Valley-Ivyglen Project's Mitigation Monitoring, Compliance, and Reporting Plan (MMCRP; Ecology and Environment, Inc., 2017 and 2018); California Environmental Quality Act (CEQA), Riverside County, City of Menifee, City of Perris, City of Lake Elsinore, and Society of Vertebrate Paleontology (SVP) (SVP, 2010) guidelines; best practices in mitigation paleontology (Murphey et al., 2019), and stipulations of the PRMP (Paleo Solutions, 2020).

1.0 PROJECT LOCATION AND DESCRIPTION

The Valley-Ivyglen Project spans from the existing Valley Substation in the City of Menifee to the existing Ivyglen Substation to the west (Attachment A: Figure 1). The Project consists of eight segments (VIG1 through VIG8) and would be constructed in two phases: Phase 1 consists of Segments VIG1, VIG2, and VIG3 (approximately 13.1 miles) and Phase 2 consisting of Segments VIG4 through VIG8 (approximately 11.5 miles). The Valley-Ivyglen Project crosses Interstate 215 (I-215), State Route 74 (SR-74), and Interstate 15 (I-15). Fiber optic lines would be installed overhead on the proposed structures and underground in new and existing conduits.

The Valley-Ivyglen Project would involve:

• Construction of a new, single-circuit 115-kV subtransmission line and fiber optic line.



- Installation of overhead fiber optic lines on the proposed structures and underground in new (approximately 5,400 feet) and existing (approximately 13,200 feet) conduit.
- Transfer of existing distribution circuits along portions of the proposed subtransmission line to new 115-kV structures or to underground positions.
- Installation of new 115-kV switching and protective equipment at Valley and Ivyglen substations.

The current Notice to Proceed Request (NTPR) #2 covers the Concordia Yard and added work areas along Segments VIG4 through VIG8 (Phase 2). Segments VIG1, VIG2, and VIG3 (Phase 1), as well as the Valley Yard, were captured under NTPR #1 (see Richards, 2020a).

Segment VIG4

This segment would continue along Third Street from Collier Avenue southwest to Pasadena Avenue and then follow Pasadena Avenue northwest until the road ends. From there, it would pass over land to Riverside Drive (SR-74), extend southwest to Baker Street, and then follow Baker Street northwest to Pierce Street. It would pass under the Valley–Elsinore–Fogarty 115-kV line as it approaches Pierce Street. Segment VIG4 would follow an existing distribution line right-of-way (ROW), and in these areas, the existing distribution line would be relocated to an overhead position on a lower section of the new 115-kV structures. Guy poles would be installed in locations where the proposed 115-kV structures require additional support.

Segment VIG5

This segment would continue from Pierce Street across Nichols Road and then extend west along Nichols Road to the abandoned section of Lake Street ("Old Lake Street"). It would extend northwest along Old Lake Street toward I-15. Segment VIG5 would continue parallel to Lake Street to the I-15 on- and off-ramps. The segment would turn west along an I-15 off-ramp and then along both sides of Temescal Canyon Road for approximately 0.3 miles. From there, it would cross I-15 to the north and then continue west along Concordia Ranch Road to the proposed Alberhill Substation site. A number of guy poles would be installed in locations where the proposed 115-kV structures require additional support. VIG5 would follow existing distribution line ROWs, and in these areas, the existing distribution line would be relocated to an overhead position on a lower section of the new 115-kV structures.

Segment VIG6

This segment would continue along Temescal Canyon Road west to Hostettler Road from where Segment VIG5 crosses I-15. From there, it would extend over land northwest along I-15. Sections of Segment VIG6 would follow an existing distribution line ROW or the 115-kV ROW. The existing distribution line would be relocated to an overhead position on a lower section of the new 115-kV structures.

Segment VIG7

This segment would cross Horse Thief Canyon Road and continue along De Palma Road for approximately 1.2 miles. From there, it would cross I-15 to the north and extend to Temescal Canyon Road. It would continue northwest on Temescal Canyon Road to a point approximately 700 hundred feet northwest of the intersection of Temescal Canyon Road and Indian Truck Trail. The existing single-circuit 115-kV structures would be replaced with double-circuit 115-kV structures. Sections of Segment VIG7 would follow existing distribution line ROWs, and the existing overhead distribution line would be relocated to an overhead position on a lower section of the new 115-kV structures.

Segment VIG8

Along 115-kV Segment VIG8, the fiber optic line would primarily be installed underground along this segment. Approximately 10,670 feet of fiber optic cable would be installed in an existing underground conduit along Campbell Ranch Road, beginning approximately 850 feet east of Santiago Canyon Road, to



Ivyglen Substation. An additional approximately 1,497 feet of fiber optic cable would be installed in a new underground conduit along Temescal Canyon Road from Campbell Ranch Road to Ivyglen Substation.

Concordia Yard

The Concordia Yard is a previously graded area located off of Concordia Ranch Road and Black Powder Road at the western portion of the VIG Project alignment (Attachment A: Figure 1). The yard will be used for material staging and will be enclosed with a fence. Wilson will use equipment to spread 3 inches of gravel over the surface of the yard and to auger holes to install perimeter fencing. At the end of the project, frontend loaders and other equipment will be used to remove the gravel. Ground disturbance in native sediments within the Concordia Yard will be limited to augering 12-inch diameter holes.

2.0 PALEONTOLOGICAL RESOURCES STUDY AREA

The Study Area for paleontological resources is defined as all areas that would be subject to ground disturbing activity associated with development of the proposed Project. The Study Area for paleontological resources includes all proposed tower locations, access roads and ROWs, staging yards, pull sites, subtransmission lines, telecommunications lines, and underground trenching. For Segments VIG4 through VIG8 the Study Area extends approximately 11.5 miles in total length within a ROW up to 55 feet in width.

Of the added Project locations along VIG4 through VIG8, 12 work areas, totaling 0.62 acre, were not included in previous investigations. These additional components, however, lie within the half mile buffer of the original Project area and, in general, are situated within the original ROW, immediately adjacent to structure locations of the original Project area (Attachment A: Figure 2).

3.0 METHODS

A paleontological analysis was conducted for the original components along the approximately 27-mile alignment of the Valley-Ivyglen Project as part of the FEIR (Ecology and Environment, Inc., 2017). The analysis included reviews of geologic maps, literature, and several museum paleontological records searches. Subsequent analyses were conducted for the Concordia Yard, Valley Yard, and New Workstations, which were all added to the Project after the initial analysis and drafting of the Project's FEIR. Paleontological analyses of the Valley Yard and New Workstations are summarized in the NTPR1 (Richards, 2020a), and the analysis for the Concordia Yard, Submarized in this report along with the analyses of Segments VIG4 through VIG8.

This current paleontological analysis consists of a review of geologic mapping by Morton and Miller (2006), a review of the Project's FEIR (Ecology and Environment, Inc., 2017), including the previously completed paleontological records searches and literature reviews for the Valley-Ivyglen Project (Jefferson, 1989; Lander, 2008; Scott, 2009), and a review of the previously completed paleontological records searches and literature for the nearby Valley South Subtransmission Project (McLeod, 2013; Scott, 2014).

Additionally, the results of the paleontological field survey of the Concordia Yard, conducted by Paleo Solutions staff member Daniel Nolan, B.S., on December 10, 2019, are summarized in this report.



4.0 **RESULTS**

4.1 Geologic Map Review

Geologic mapping by Morton and Miller (2006) indicates that VIG4 through VIG8 are underlain by late Holocene-age artificial fill (Qaf), Holocene- to late Pleistocene-age young wash deposits (Qyw), Holocene- to late Pleistocene-age young axial-channel deposits (Qya), Holocene- to late Pleistocene-age young alluvial fan deposits (Qyf), Holocene- to late Pleistocene-age young alluvial valley deposits (Qyv), late to middle Pleistocene-age old alluvial fan deposits (Qof), middle to early Pleistocene-age very old alluvial fan deposits (Qvof), middle to early Pleistocene-age very old axial-channel deposits (Qvoa), Paleocene-age Silverado Formation (Tsi), Cretaceous-age Estelle Mountain Volcanics of Herzig (1991) (Kvem), and Cretaceous-age Santigao Peak Volcanics (Kvsp), (Morton and Miller, 2006; Attachment A: Figure 3). Also mapped within the Project vicinity within the half-mile buffer are late Holocene-age Very young alluvial fan deposits (Qf), late Holocene-age very young lacustrine deposits (Ql), Pleistocene-age Pauba Formation (Qpf), Cretaceous-age granite, undifferentiated (Kgu), Cretaceous-age Gavilan Ring Complex (Kgh), Triassic-age rocks of Menifee Valley, phyllite (Trmp), and Triassic-age rocks of Menifee Valley, undifferentiated (Trmu) (Morton and Miller, 2006; Attachment A: Figure 3). The Concordia Yard, which is located within VIG6, is mapped as middle to early Pleistocene-age very old axial-channel deposits (Qvoa) with minor amounts of Cretaceous-age volcanic rocks, specifically Santiago Peak Volcanics (Kvsp) (Morton and Miller, 2006; Attachment A: Figure 3).

4.2 Records Search and Literature Review

Paleontological records searches were conducted at the Natural History Museum of Los Angeles County and San Bernardino County Museum for Segments VIG3 through VIG5 and parts of VIG1, VIG2, and VIG6, as part of the Project's FEIR. The records searches, as well as paleontological literature reviews, were negative for fossil localities within the Valley-Ivyglen and Valley South Subtransmission Project areas and immediate vicinity. However, Pleistocene-age deposits similar to those within VIG4 through VIG8 and the Concordia Yard have proven to yield scientifically significant paleontological resources throughout the Inland Empire, typically from finer-grained alluvial deposits (Jefferson, 1989; Lander, 2008; McLeod, 2013; Scott, 2009, 2014). Therefore, the generally fine-grained middle to early Pleistocene-age very old axial-channel deposits (Qvoa) and Pleistocene-age Pauba Formation (Qpf) are considered to have a high potential for buried resources based on SVP (2010) guidelines, and the generally coarser-grained late to middle Pleistocene-age old alluvial fan deposits (Qof) and middle to early Pleistocene-age very old alluvial fan deposits (Qvof) have an undetermined paleontological potential until the specific lithology at a given location has been observed and evaluated. Additionally, due to the abundance of invertebrate and plant fossils recorded from Paleocene-age Silverado Formation (Tsi) (Ecology and Environment, Inc., 2017), this unit is also considered to have a high paleontological potential based on SVP (2010) guidelines.

Younger sedimentary deposits, including late Holocene-age artificial fill (Qaf), late Holocene-age very young alluvial fan deposits (Qf), late Holocene-age very young lacustrine deposits (Ql), Holocene- to late Pleistocene-age young axial-channel deposits (Qya), Holocene- to late Pleistocene-age young alluvial fan deposits (Qyf), Holocene- to late Pleistocene-age young alluvial valley deposits (Qyv), and Holocene- to late Pleistocene-age young wash deposits (Qyw), are generally considered to be too young to contain *in situ* paleontological resources, and are, therefore, considered to have a low paleontological potential based on SVP (2010) guidelines.

Cretaceous-age Estelle Mountain Volcanics of Herzig (1991) (Kvem), Cretaceous-age Santigao Peak Volcanics (Kvsp), Cretaceous-age Gavilan Ring Complex (Kgh), Cretaceous-age granite, undifferentiated (Kgu), Triassic-age rocks of Menifee Valley, phyllite (Trmp), and Triassic-age rocks of Menifee Valley,



undifferentiated (Trmu) do not contain fossils due to their high heat of formation deep below the surface of the earth, and are therefore considered to have no paleontological potential based on SVP (2010) guidelines.

4.3 Field Survey

The Concordia Yard survey area is located north of Concordia Ranch Road at Black Powder Road, north of Interstate 15 (I-15) near Lake Elsinore, California. The site is situated in an open field between private ranches located in a broad valley with near the base of nearby foothills. The terrain is nearly exclusively flat with low relief hills near the northern side of the survey area that slope gently southerly with a total topographic differential of approximately 50 feet (Attachment B: Photos 1-3). Existing ground disturbances include a large concrete slab, exposed and partially buried pipelines, paved and unpaved roads, grading and spoils piles containing previously disturbed sediments, removed cement piles, fences, and miscellaneous debris (Attachment B: Photos 1 and 3-5). Additionally, most of the Concordia Yard surface is covered in previously disturbed and disked rolled sediments, as well as fresh grasses.

4.3.1 Geology

Sediments observed included previously disturbed sediments and middle to early Pleistocene-age very old axial-channel deposits (Qvoa). Previously disturbed sediments were observed mostly along the boundary limits of the survey area. Due to the minimal topographic relief, alluvial sediment exposures are limited to ground surface areas devoid of vegetation and the sidewalls and bases of low-relief drainages.

Pleistocene-age very old axial-channel (Qvoa) drainages range from less than one foot deep to approximately 4 feet deep (Attachment B: Photo 5). Very old axial-channel sediments consist of buff red-brown (weathered surface) to pale yellow-brown (fresh surface) colored, moderately to poorly sorted, fine- to very coarse-grained sand with some subangular granules, pebbles, and cobbles composed primarily of plutonic rock fragments (Attachment B: Photos 5-6). Exposures along drainage walls display some coarser gravels and cobbles within the outcropping (Attachment B: Photo 5).

4.3.2 Paleontology

No paleontological resources were observed or collected during the survey. However, sediments conducive to fossil preservation, particularly those of the Pleistocene-age very old axial-channel deposits (Qvoa), were observed.

5.0 RECOMMENDATIONS

Paleontological monitoring, spot-checking, and fossil recovery should be implemented throughout Segments VIG 4 through VIG8 in accordance with Mitigation Measures (MM) CR-4 and CR-5 and the Project's PRMP (Paleo Solutions, 2020). Full-time monitoring should be conducted during excavations impacting geologic units with high paleontological sensitivity, including middle to early Pleistocene-age very old axial-channel deposits (Qvoa), Pleistocene-age Pauba Formation (Qpf), and Paleocene-age Silverado Formation (Tsi), either at the surface or at depth beneath younger surficial sediments. Spot-checking should initially be conducted during excavations impacting geologic units with undetermined paleontological sensitivity, including late to middle Pleistocene-age old alluvial fan deposits (Qof) and middle to early Pleistocene-age very old alluvial fan deposits (Qvof). No paleontological monitoring or spot-checking is required in low paleontological sensitivity deposits, including late Holocene-age artificial fill (Qaf), late Holocene-age very young alluvial fan deposits (Qf), late Holocene-age very young lacustrine deposits (Ql), Holocene- to late Pleistocene-age young axial-channel deposits (Qya), Holocene- to late Pleistocene-age young alluvial valley deposits (Qyv), and Holocene- to late Pleistocene-age young wash deposits (Qyw). Monitoring should not be conducted during excavations impacting geologic units with no paleontological sensitivity, including Cretaceous-age Estelle Mountain Volcanics of Herzig (1991) (Kvem),

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Cretaceous-age Santigao Peak Volcanics (Kvsp), Cretaceous-age Gavilan Ring Complex (Kgh), Cretaceousage granite, undifferentiated (Kgu), Triassic-age rocks of Menifee Valley, phyllite (Trmp), and Triassic-age rocks of Menifee Valley, undifferentiated (Trmu).

The Concordia Yard has been previously disturbed at the surface, there are no known paleontological resources within the yard, and ground disturbance in native sediments within the yard will be limited to augering 12-inch diameter holes. Per the Project's PRMP (Paleo Solutions, 2019), monitoring during augering is only required if the diameter is 3 feet or greater; therefore, paleontological monitoring is not required at the Concordia Yard. However, a paleontologist will be available on-call in the event of unanticipated discoveries.

A summary of the monitoring requirements for Segments VIG4 through VIG8 and the Concordia Yard is provided as Attachment C.

If you have any questions concerning the results for this study, please contact me at crichards@paleosolutions.com.

Sincerely,

Courtney Richards, M.S. Principal Paleontologist Paleo Solutions, Inc.

Attachments:

Attachment AFiguresAttachment BPhotosAttachment CMonitoring Requirements

References:

Ecology and Environment, Inc. 2017. Final Environmental Impact Report and Mitigation Monitoring, Compliance, and Reporting Plan: Valley-Ivyglen 115-kV Substransmission Line and Alberhill System Projects: Prepared for the California public Utilities Commission Energy Division.

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Paleontological Resources Notice to Proceed Request #2: Concordia Yard and Added Workstations for the Valley Ivyglen Subtransmission Line Project (VIG4 through VIG8)



ATTACHMENT A: Figures



PALEONTOLOGICAL RESOURCES NOTICE TO PROCEED REQUEST #2: CONCORDIA YARD AND ADDED WORKSTATIONS FOR THE VALLEY IVYGLEN SUBTRANSMISSION LINE PROJECT (VIG4 THROUGH VIG8)



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PALEONTOLOGICAL RESOURCES NOTICE TO PROCEED REQUEST #2: CONCORDIA YARD AND ADDED WORKSTATIONS FOR THE VALLEY IVYGLEN SUBTRANSMISSION LINE PROJECT (VIG4 THROUGH VIG8)



Figure 2. Project Overview Map Book (29 Pages).









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	New UG Alignment	New ROW
	New Telcom UG	
	Structure Work Area	
	CPUC Buffer	
	SKR Buffer	



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\bigcirc	Existing Structure		New OH Alignment	\bigotimes	Pull Site		Existing - Access Road			EST. 2004
•	New Structure		New UG Alignment		Structure Work Area		Areas			Not a
	Remove Structure		New Telcom UG		CPUC Buffer		Areas			240 CULTURAL RESOURCES COM
ightarrow	Temporary Structure		O & M Area		SKR Buffer		Trench		N	0 50 100 200 300
*	Guard Pole		General Disturbance Area		Grading Limit		New ROW			Page 5 of 29





Valle	y-lvyglen 115-kV	/ Subt	ransmission L	ine Project			SOLTA
	Vault	*	Guard Pole	General Disturbance Area	Grading Limit	New ROW	A DECEMBER OF
	Existing Structure	∺	Guy Anchor	Guard Site	Ground Disturbance Area	Temporary ROW	831. 400
×	Modify Structure		New OH Alignment	Pull Site	Existing - Access Road Areas		Contraction of the second
•	New Structure		New Telcom OH	Structure Work Area	New - Access Road		e nikit ikonon
	Remove Structure		New Telcom UG	CPUC Buffer	Areas		N 0 50 100 200 300
	Temporary Structure		O & M Area	SKR Buffer	Trench		Page 6 of 29
							Designment from Facility Old Online Mandalu





















200 300 400 500 Feet





ission Line Project				
om OH		CPUC Buf		
ea		SKR Buffe		
Disturbance		Grading Li		
	2	Ground Di Area		
Work Area		Gabion Ba		
n Removal		McCarthy		

Buffer	
Buffer	
ng Limit	
d Disturbance	















































	Vegetation Removal
	CPUC Buffer
	SKR Buffer
	Grading Limit

Existing - Access Road Areas

New - Access Road Areas

New ROW



Gabion Basket















Page 16 of 29 Base map from Esri ArcGIS Online World Imagery and Bing Maps Road















































0 50 100 200 300 400 500 Feet А Page 21 of 29 Base map from Esri ArcGIS Online World Imagery and Bing Maps Road







Page 22 of 29 Base map from Esri ArcGIS Online World Imagery and Bing Maps Road































Structure Work Area
Vegetation Removal
CPUC Buffer
SKR Buffer
Grading Limit













Ν 0 50 100 200 300 400 500 Feet Page 27 of 29 Base map from Esri ArcGIS Online World Imagery and Bing Maps Road









Ν 0 50 100 200 300 400 500 Feet 1 Page 28 of 29 Base map from Esri ArcGIS Online World Imagery and Bing Maps Road













PALEONTOLOGICAL RESOURCES NOTICE TO PROCEED REQUEST #2: CONCORDIA YARD AND ADDED WORKSTATIONS FOR THE VALLEY IVYGLEN SUBTRANSMISSION LINE PROJECT (VIG4 THROUGH VIG8)



Figure 3. Geology and Paleontological Sensitivity Map Book (29 Pages).



















Geology from Morton, D.M., and Miller, F.K., 2006, Geologic Map of the San Bernardino and Santa Ana 30' x 60' Quadrangles, California: U.S. Geological Survey, Open File Report 2006-1217, scale 1:100,000.

Base map from Esri ArcGIS Online World Imagery




















Base map from Esri ArcGIS Online World Imagery



\bigcirc	Existing Structure	\bigotimes	Pull Site	Geology Description	Paleontological Potential (SVP)	
•	New Structure		Structure Work Area	Qyw: Young wash deposits (Holocene and late Pleistocene)	No Potential	Sala.
×	Guard Pole		CPUC Buffer	Qyf: Young alluvial-fan deposits	Low Potential	2 <u>- 57</u>
⇔	Guy Anchor		SKR Buffer	(Holocene and late Pleistocene)	Undetermined Potential	
	New OH Alignment		Grading Limit	(late to middle Pleistocene)	High Potential	
	New Telcom OH	Z	Ground Disturbance Area	Qvof: Very old alluvial-fan deposits (middle to early Pleistocene)		N 0 100 2
	O & M Area		New - Access Road	Kvsp: Santiago Peak Volcanics		
\bigotimes	Guard Site		New ROW			





-	
	Rip Rap
	Existing - Access Road
	New - Access Road
	New ROW
Geolog	y Description
	Qyw: Young wash deposits (Holocene and late Pleistocene)
	Qyf: Young alluvial-fan deposits (Holocene and late Pleistocene)













٦	Qyw: Young wash deposits
	(Holocene and late Pleistocen









Paleontological Potential (SVP)



Undetermined Potential





Base map from Esri ArcGIS Online World Imagery

scale 1:100,000.





























































Trmu: Rocks of Menifee Valley, Undifferentiated (Triassic)

Paleontological Potential (SVP)

(Paleocene)



New OH Alignment

New Telcom OH

New Telcom UG

O & M Area

Pull Site

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 $\times\!\!\times\!\!\times$

^N 0 ▲ L 100







Base map from Esri ArcGIS Online World Imagery

scale 1:100,000.





















Geology from Morton, D.M., and Miller, F.K., 2006, Geologic Map of the San Bernardino and Santa Ana 30' x 60' Quadrangles, California: U.S. Geological Survey, Open File Report 2006-1217, scale 1:100,000.

Base map from Esri ArcGIS Online World Imagery

200

Feet

Page 26 of 29

300 400 500

























PALEONTOLOGICAL RESOURCES NOTICE TO PROCEED REQUEST #2: CONCORDIA YARD AND ADDED WORKSTATIONS FOR THE VALLEY IVYGLEN SUBTRANSMISSION LINE PROJECT (VIG4 THROUGH VIG8)



ATTACHMENT B: Photos

PALEONTOLOGICAL RESOURCES NOTICE TO PROCEED REQUEST #2: CONCORDIA YARD AND ADDED WORKSTATIONS FOR THE VALLEY IVYGLEN SUBTRANSMISSION LINE PROJECT (VIG4 THROUGH VIG8)





Photo 1. Concordia Yard paleontological field survey (conducted December 10, 2019): overview of the survey area along the northern half of the western side of the proposed Concordia Yard, showing access road and northern slope. View facing to the northeast.



Photo 2. Concordia Yard paleontological field survey (conducted December 10, 2019): overview of the Concordia Yard survey area along the northern access road pull out. View facing to the northeast.





Photo 3. Concordia Yard paleontological field survey (conducted December 10, 2019): overview taken from along the southern half of the eastern side of the proposed construction yard, showing nearby slopes and paved road adjacent to the Concordia Yard survey area. View facing to the northeast.



Photo 4. Concordia Yard paleontological field survey (conducted December 10, 2019): overview of the Concordia Yard survey area along the northern half of the eastern side of the proposed construction yard, showing the concrete slab. View facing to the southwest.

Paleontological Resources Notice to Proceed Request #2: Concordia Yard and Added Workstations for the Valley Ivyglen Subtransmission Line Project (VIG4 through VIG8)





Photo 5. Concordia Yard paleontological field survey (conducted December 10, 2019): drainage channel exposure of middle to early Pleistocene-age very old axial-channel deposits (Qvoa), consisting primarily of sands and gravels. Larger cobbles and occasional boulders can be observed within the wash. Partially buried pipelines are exposed within the channel and near the top of the wash. View facing to the north.



Photo 6. Concordia Yard paleontological field survey (conducted December 10, 2019): weathered middle to early Pleistocene-age very old axial-channel deposits (Qvoa) as seen at and near the surface along the north end of the western side of the proposed Concordia Yard. View facing down.

Paleontological Resources Notice to Proceed Request #2: Concordia Yard and Added Workstations for the Valley Ivyglen Subtransmission Line Project (VIG4 through VIG8)



ATTACHMENT C: Monitoring Locations

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
2378044E	VIG8	Monopole	Qyv	Low Potential	1	No Monitoring
237804XE	VIG8	TBD	Qyv	Low Potential	1	No Monitoring
FIG Sub Rack	VIG8	TBD	Qyv	Low Potential	1	No Monitoring
4765580E	VIG8	Riser	Qyv	Low Potential	1	No Monitoring
4765581E	VIG8	Monopole	Qyv	Low Potential	1	No Monitoring
Fogarty-Ivyglen	VIG8	OH	Qyv	Low Potential	1	No Monitoring
FUTURE SUB FRAME	VIG8	TBD	Qyv	Low Potential	1	No Monitoring
Guard Sites	VIG8	Guard Site	Qyv	Low Potential	1	No Monitoring
M9300920	VIG8	Manhole	Qyv	Low Potential	1	No Monitoring
M9300921	VIG8	Manhole	Qyv	Low Potential	1	No Monitoring
M9301112	VIG8	Manhole	Qya	Low Potential	1	No Monitoring
M9301113	VIG8	Manhole	Qyv	Low Potential	1	No Monitoring
Overland Travel	VIG8	Overland Travel	Qyv	Low Potential	1	No Monitoring
Pole Impact Areas	VIG8	O_M	Qyv	Low Potential	1	No Monitoring
Seg8-GS1	VIG8	Guard Pole	Qyv	Low Potential	1	No Monitoring
Structure Work Areas	VIG8	Structure Work Area	Qyv	Low Potential	1	No Monitoring
TBD	VIG8	Trench	Qya	Low Potential	1	No Monitoring
TBD	VIG8	Trench	Qyv	Low Potential	1	No Monitoring
TBD	VIG8	Monopoles	Qyv	Low Potential	1	No Monitoring
TBD	VIG8	Trenches	Qof	Undetermined Potential	1	Spot-checking
TTC MH1	VIG8	Manhole	Qyv	Low Potential	1	No Monitoring
TTC MH2	VIG8	Manhole	Qya	Low Potential	1	No Monitoring
Underground Fiber Optic in existing conduit	VIG8	UG	Qya	Low Potential	1	No Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
Underground Fiber Optic in existing conduit	VIG8	UG	Qyv	Low Potential	1	No Monitoring
Underground Fiber Optic in existing conduit	VIG8	UG	Qof	Undetermined Potential	1	Spot-checking
V5383786	VIG8	Vault	Qyv	Low Potential	1	No Monitoring
V5507927	VIG8	Vault	Qya	Low Potential	1	No Monitoring
V5507928	VIG8	Vault	Qof	Undetermined Potential	1	Spot-checking
V5529459	VIG8	Vault	Qyv	Low Potential	1	No Monitoring
V8-01	VIG8	Vault	Qyv	Low Potential	1	No Monitoring
V8-02	VIG8	Vault	Qya	Low Potential	1	No Monitoring
Valley-Ivyglen	VIG8	OH	Qyv	Low Potential	1	No Monitoring
Valley-Ivyglen	VIG8	UG	Qya	Low Potential	1	No Monitoring
Valley-Ivyglen	VIG8	UG	Qyv	Low Potential	1	No Monitoring
Vault Work Areas	VIG8	Structure Work Area	Qya	Low Potential	1	No Monitoring
Vault Work Areas	VIG8	Structure Work Area	Qyv	Low Potential	1	No Monitoring
Vault Work Areas	VIG8	Structure Work Area	Qof	Undetermined Potential	1	Spot-checking
Tree Trimming Area	Multiple	Vegetation Removal	Qyv	Low Potential	1	No Monitoring
Ivyglen Substation	TBD	Boundary	Qyv	Low Potential	1	No Monitoring
VIG Sub Rack	VIG8	TBD	Qyv	Low Potential	1	No Monitoring
TBD	VIG8	Trenches	Qyv	Low Potential	2	No Monitoring
TBD	VIG8	Trenches	Qya	Low Potential	2	No Monitoring
TBD	VIG8	Trenches	Kvem	No Potential	2	No Monitoring
TBD	VIG8	Trenches	Qof	Undetermined Potential	2	Spot-checking

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
Underground Fiber Optic in existing conduit	VIG8	UG	Qof	Undetermined Potential	2	Spot-checking
V5532160	VIG8	Vault	Qof	Undetermined Potential	2	Spot-checking
V8-03	VIG8	Vault	Qyv	Low Potential	2	No Monitoring
V8-04	VIG8	Vault	Kvem	No Potential	2	No Monitoring
V8-05	VIG8	Vault	Qya	Low Potential	2	No Monitoring
Valley-Ivyglen	VIG8	UG	Qyv	Low Potential	2	No Monitoring
Valley-Ivyglen	VIG8	UG	Qya	Low Potential	2	No Monitoring
Valley-Ivyglen	VIG8	UG	Kvem	No Potential	2	No Monitoring
Valley-Ivyglen	VIG8	UG	Qof	Undetermined Potential	2	Spot-checking
Vault Work Areas	VIG8	Structure Work Area	Qyv	Low Potential	2	No Monitoring
Vault Work Area	VIG8	Structure Work Area	Qya	Low Potential	2	No Monitoring
Vault Work Areas	VIG8	Structure Work Area	Kvem	No Potential	2	No Monitoring
Vault Work Areas	VIG8	Structure Work Area	Qof	Undetermined Potential	2	Spot-checking
TBD	VIG8	Trenches	Qya	Low Potential	3	No Monitoring
TBD	VIG8	Trenches	Qof	Undetermined Potential	3	Spot-checking
Underground Fiber Optic in existing conduit	VIG8	UG	Qof	Undetermined Potential	3	Spot-checking
V5532161	VIG8	Vault	Qof	Undetermined Potential	3	Spot-checking
V5532162	VIG8	Vault	Qof	Undetermined Potential	3	Spot-checking
V5532163	VIG8	Vault	Qof	Undetermined Potential	3	Spot-checking
V8-06	VIG8	Vault	Qof	Undetermined Potential	3	Spot-checking
Valley-Ivyglen	VIG8	UG	Qya	Low Potential	3	No Monitoring
Valley-Ivyglen	VIG8	UG	Qof	Undetermined Potential	3	Spot-checking
Vault Work Areas	VIG8	Structure Work Area	Qya	Low Potential	3	No Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
Vault Work Areas	VIG8	Structure Work Area	Qof	Undetermined Potential	3	Spot-checking
4107060E	VIG7	Monopole	Tsi	High Potential	4	Full-time Monitoring
4107061E	VIG7	Monopole	Qof	Undetermined Potential	4	Spot-checking
Guy Anchors	VIG7	Guy Anchor	Qof	Undetermined Potential	4	Spot-checking
Guy Support Lines	VIG7	OH	Qof	Undetermined Potential	4	Spot-checking
Pole Impact Areas	VIG7	O_M	Qof	Undetermined Potential	4	Spot-checking
Pull Sites	VIG7	Pull Site	Qof	Undetermined Potential	4	Spot-checking
SF10	VIG7	Shoofly	Qof	Undetermined Potential	4	Spot-checking
SF11	VIG7	Shoofly	Qof	Undetermined Potential	4	Spot-checking
Shoofly	VIG7	ОН	Qof	Undetermined Potential	4	Spot-checking
Structure Work Areas	VIG7	Structure Work Area	Tsi	High Potential	4	Full-time Monitoring
Structure Work Areas	VIG7	Structure Work Area	Qof	Undetermined Potential	4	Spot-checking
WP8	VIG7	Monopole	Qof	Undetermined Potential	4	Spot-checking
Pull Sites	VIG8	Pull Site	Tsi	High Potential	4	Full-time Monitoring
Pull Sites	VIG8	Pull Site	Qof	Undetermined Potential	4	Spot-checking
TBD	VIG8	Trenches	Tsi	High Potential	4	Full-time Monitoring
TBD	VIG8	Trenches	Qof	Undetermined Potential	4	Spot-checking
Underground Fiber Optic in existing conduit	VIG8	UG	Tsi	High Potential	4	Full-time Monitoring
Underground Fiber Optic in existing conduit	VIG8	UG	Qof	Undetermined Potential	4	Spot-checking
V5532163	VIG8	Vault	Qof	Undetermined Potential	4	Spot-checking
V5532164	VIG8	Vault	Qof	Undetermined Potential	4	Spot-checking

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
V5532165	VIG8	Vault	Tsi	High Potential	4	Full-time Monitoring
V8-07	VIG8	Vault	Qof	Undetermined Potential	4	Spot-checking
Valley-Ivyglen	VIG8	UG	Tsi	High Potential	4	Full-time Monitoring
Valley-Ivyglen	VIG8	UG	Qof	Undetermined Potential	4	Spot-checking
Vault Work Areas	VIG8	Structure Work Area	Tsi	High Potential	4	Full-time Monitoring
Vault Work Areas	VIG8	Structure Work Area	Qof	Undetermined Potential	4	Spot-checking
Access Roads	VIG7	Grading Limit	Qya	Low Potential	5	No Monitoring
4107062E	VIG7	Monopole	Qof	Undetermined Potential	5	Spot-checking
4107066E	VIG7	Monopole	Qya	Low Potential	5	No Monitoring
4765568E	VIG7	Monopole	Qya	Low Potential	5	No Monitoring
4765569E	VIG7	Monopole	Qya	Low Potential	5	No Monitoring
4765570E	VIG7	Monopole	Qya	Low Potential	5	No Monitoring
4765571E	VIG7	Monopole	Qya	Low Potential	5	No Monitoring
4765572E	VIG7	Monopole	Qya	Low Potential	5	No Monitoring
4765573E	VIG7	Monopole	Qya	Low Potential	5	No Monitoring
4765574E	VIG7	Monopole	Qya	Low Potential	5	No Monitoring
4765575E	VIG7	Monopole	Qya	Low Potential	5	No Monitoring
4765576E	VIG7	Monopole	Qya	Low Potential	5	No Monitoring
4765577E	VIG7	Monopole	Qof	Undetermined Potential	5	Spot-checking
4765578E	VIG7	Monopole	Qof	Undetermined Potential	5	Spot-checking
4765579E	VIG7	Monopole	Qof	Undetermined Potential	5	Spot-checking
Anchor Work Areas	VIG7	General Disturbance Area	Qya	Low Potential	5	No Monitoring
Anchor Work Areas	VIG7	General Disturbance Area	Qof	Undetermined Potential	5	Spot-checking
COMM P1	VIG7	TBD	Qya	Low Potential	5	No Monitoring
Guard Site	VIG7	Guard Site	Qya	Low Potential	5	No Monitoring
Guard Sites	VIG7	Guard Site	Qof	Undetermined Potential	5	Spot-checking
Guy Anchors	VIG7	Guy Anchor	Qya	Low Potential	5	No Monitoring
Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
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Guy Anchors	VIG7	Guy Anchor	Qof	Undetermined Potential	5	Spot-checking
Guy Support Lines	VIG7	ОН	Qya	Low Potential	5	No Monitoring
Guy Support Lines	VIG7	ОН	Qof	Undetermined Potential	5	Spot-checking
Pole Impact Areas	VIG7	O_M	Qya	Low Potential	5	No Monitoring
Pole Impact Areas	VIG7	O_M	Qof	Undetermined Potential	5	Spot-checking
Pull Sites	VIG7	Pull Site	Qya	Low Potential	5	No Monitoring
Pull Sites	VIG7	Pull Site	Qyf	Low Potential	5	No Monitoring
Pull Sites	VIG7	Pull Site	Qof	Undetermined Potential	5	Spot-checking
Seg7-GS7	VIG7	Guard Pole	Qof	Undetermined Potential	5	Spot-checking
SF1	VIG7	Shoofly	Qya	Low Potential	5	No Monitoring
SF1	VIG7	Shoofly	Qya	Low Potential	5	No Monitoring
SF10	VIG7	Shoofly	Qof	Undetermined Potential	5	Spot-checking
SF11	VIG7	Shoofly	Qof	Undetermined Potential	5	Spot-checking
SF2	VIG7	Shoofly	Qya	Low Potential	5	No Monitoring
SF2	VIG7	Shoofly	Qya	Low Potential	5	No Monitoring
SF3	VIG7	Shoofly	Qya	Low Potential	5	No Monitoring
SF3	VIG7	Shoofly	Qya	Low Potential	5	No Monitoring
SF4	VIG7	Shoofly	Qya	Low Potential	5	No Monitoring
SF4	VIG7	Shoofly	Qya	Low Potential	5	No Monitoring
SF5	VIG7	Shoofly	Qya	Low Potential	5	No Monitoring
SF5	VIG7	Shoofly	Qya	Low Potential	5	No Monitoring
SF6	VIG7	Shoofly	Qya	Low Potential	5	No Monitoring
SF6	VIG7	Shoofly	Qya	Low Potential	5	No Monitoring
SF7	VIG7	Shoofly	Qya	Low Potential	5	No Monitoring
SF7	VIG7	Shoofly	Qof	Undetermined Potential	5	Spot-checking
SF8	VIG7	Shoofly	Qof	Undetermined Potential	5	Spot-checking
SF8	VIG7	Shoofly	Qof	Undetermined Potential	5	Spot-checking

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
SF9	VIG7	Shoofly	Qof	Undetermined Potential	5	Spot-checking
SF9	VIG7	Shoofly	Qof	Undetermined Potential	5	Spot-checking
Shoofly	VIG7	OH	Qya	Low Potential	5	No Monitoring
Shoofly	VIG7	ОН	Qof	Undetermined Potential	5	Spot-checking
Structure Work Areas	VIG7	Structure Work Area	Qya	Low Potential	5	No Monitoring
Structure Work Area	VIG7	Structure Work Area	Kvem	No Potential	5	No Monitoring
Structure Work Areas	VIG7	Structure Work Area	Qof	Undetermined Potential	5	Spot-checking
STUBs	VIG7	TBD	Qya	Low Potential	5	No Monitoring
Valley-Ivyglen	VIG7	OH	Qya	Low Potential	5	No Monitoring
Valley-Ivyglen	VIG7	OH	Qof	Undetermined Potential	5	Spot-checking
Access Roads	VIG8	Access Road	Qya	Low Potential	5	No Monitoring
TBD	VIG8	Trenches	Tsi	High Potential	5	Full-time Monitoring
TBD	VIG8	Trenches	Qya	Low Potential	5	No Monitoring
TBD	VIG8	Trenches	Qof	Undetermined Potential	5	Spot-checking
Underground Fiber Optic in existing conduit	VIG8	UG	Tsi	High Potential	5	Full-time Monitoring
Underground Fiber Optic in existing conduit	VIG8	UG	Qya	Low Potential	5	No Monitoring
Underground Fiber Optic in existing conduit	VIG8	UG	Qof	Undetermined Potential	5	Spot-checking
V5532166	VIG8	Vault	Tsi	High Potential	5	Full-time Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
V5532167	VIG8	Vault	Qya	Low Potential	5	No Monitoring
V8-08	VIG8	Vault	Qof	Undetermined Potential	5	Spot-checking
Valley-Ivyglen	VIG8	UG	Qof	Undetermined Potential	5	Spot-checking
Vault Work Areas	VIG8	Structure Work Area	Tsi	High Potential	5	Full-time Monitoring
Vault Work Areas	VIG8	Structure Work Area	Qya	Low Potential	5	No Monitoring
Vault Work Areas	VIG8	Structure Work Area	Qof	Undetermined Potential	5	Spot-checking
Access Roads	VIG7	Grading Limit	Qya	Low Potential	6	No Monitoring
4107077E (WP6)	VIG7	Monopole	Qya	Low Potential	6	No Monitoring
4107078E (WP5)	VIG7	Monopole	Qyf	Low Potential	6	No Monitoring
4524547E	VIG7	TBD	Qof	Undetermined Potential	6	Spot-checking
4765562E	VIG7	Monopole	Qyf	Low Potential	6	No Monitoring
4765563E	VIG7	Monopole	Qya	Low Potential	6	No Monitoring
4765564E	VIG7	Monopole	Qya	Low Potential	6	No Monitoring
4765565E	VIG7	Monopole	Qya	Low Potential	6	No Monitoring
4765566E	VIG7	Monopole	Qof	Undetermined Potential	6	Spot-checking
4765567E	VIG7	Monopole	Qya	Low Potential	6	No Monitoring
4765568E	VIG7	Monopole	Qya	Low Potential	6	No Monitoring
4765569E	VIG7	Monopole	Qya	Low Potential	6	No Monitoring
4765570E	VIG7	Monopole	Qya	Low Potential	6	No Monitoring
4765571E	VIG7	Monopole	Qya	Low Potential	6	No Monitoring
4765572E	VIG7	Monopole	Qya	Low Potential	6	No Monitoring
4873261E	VIG7	Monopole	Qof	Undetermined Potential	6	Spot-checking
4873262E	VIG7	Monopole	Qof	Undetermined Potential	6	Spot-checking
4873263E	VIG7	Monopole	Qof	Undetermined Potential	6	Spot-checking
4873264E	VIG7	Monopole	Qof	Undetermined Potential	6	Spot-checking
4873265E	VIG7	Monopole	Qof	Undetermined Potential	6	Spot-checking
4873266E	VIG7	Monopole	Qof	Undetermined Potential	6	Spot-checking

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
4873299E	VIG7	Monopole	Qof	Undetermined Potential	6	Spot-checking
4873300E	VIG7	Monopole	Qof	Undetermined Potential	6	Spot-checking
Anchor Work Areas	VIG7	General Disturbance Area	Qof	Undetermined Potential	6	Spot-checking
COMM P1	VIG7	TBD	Qya	Low Potential	6	No Monitoring
COMM P1	VIG7	TBD	Qya	Low Potential	6	No Monitoring
Guard Sites	VIG7	Guard Site	Qya	Low Potential	6	No Monitoring
Guard Sites	VIG7	Guard Site	Qof	Undetermined Potential	6	Spot-checking
Guy Anchors	VIG7	Guy Anchor	Qya	Low Potential	6	No Monitoring
Guy Anchors	VIG7	Guy Anchor	Qof	Undetermined Potential	6	Spot-checking
Guy Support Lines	VIG7	OH	Qya	Low Potential	6	No Monitoring
Overhead Fiber Optic Cable	VIG7	ОН	Qya	Low Potential	6	No Monitoring
Overhead Fiber Optic Cable	VIG7	ОН	Qyf	Low Potential	6	No Monitoring
Overland Travel	VIG7	Overland Travel	Qof	Undetermined Potential	6	Spot-checking
P1	VIG7	TBD	Qof	Undetermined Potential	6	Spot-checking
Pole Impact Areas	VIG7	O_M	Qya	Low Potential	6	No Monitoring
Pole Impact Areas	VIG7	O_M	Qyf	Low Potential	6	No Monitoring
Pole Impact Areas	VIG7	O_M	Qof	Undetermined Potential	6	Spot-checking
Pull Sites	VIG7	Pull Site	Qyf	Low Potential	6	No Monitoring
Pull Sites	VIG7	Pull Site	Qya	Low Potential	6	No Monitoring
Pull Sites	VIG7	Pull Site	Qof	Undetermined Potential	6	Spot-checking
SF0	VIG7	Shoofly	Qya	Low Potential	6	No Monitoring
SF1	VIG7	Shoofly	Qya	Low Potential	6	No Monitoring
SF1	VIG7	Shoofly	Qya	Low Potential	6	No Monitoring
SF2	VIG7	Shoofly	Qya	Low Potential	6	No Monitoring
SF2	VIG7	Shoofly	Qya	Low Potential	6	No Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
SF3	VIG7	Shoofly	Qya	Low Potential	6	No Monitoring
SF4	VIG7	Shoofly	Qya	Low Potential	6	No Monitoring
Shoofly	VIG7	OH	Qya	Low Potential	6	No Monitoring
Shoofly	VIG7	ОН	Qyf	Low Potential	6	No Monitoring
Structure Work Areas	VIG7	Structure Work Area	Qyf	Low Potential	6	No Monitoring
Structure Work Areas	VIG7	Structure Work Area	Qya	Low Potential	6	No Monitoring
Structure Work Areas	VIG7	Structure Work Area	Qof	Undetermined Potential	6	Spot-checking
STUBs	VIG7	TBD	Qya	Low Potential	6	No Monitoring
Telcom Pull Sites	VIG7	Pull Site	Qya	Low Potential	6	No Monitoring
Valley-Ivyglen	VIG7	OH	Qya	Low Potential	6	No Monitoring
Valley-Ivyglen	VIG7	OH	Qyf	Low Potential	6	No Monitoring
Valley-Ivyglen	VIG7	OH	Qof	Undetermined Potential	6	Spot-checking
Access Roads	VIG8	Access Road	Qya	Low Potential	6	No Monitoring
TBD	VIG8	Trenches	Qya	Low Potential	6	No Monitoring
TBD	VIG8	Trenches	Qof	Undetermined Potential	6	Spot-checking
Underground Fiber Optic in existing conduit	VIG8	UG	Qof	Undetermined Potential	6	Spot-checking
Underground Fiber Optic in new conduit	VIG8	UG	Qya	Low Potential	6	No Monitoring
V5548777	VIG8	Vault	Qof	Undetermined Potential	6	Spot-checking
V5548778	VIG8	Vault	Qof	Undetermined Potential	6	Spot-checking
Vault Work Areas	VIG8	Structure Work Area	Qof	Undetermined Potential	6	Spot-checking

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
4765546E	VIG7	Monopole	Qvof	Undetermined Potential	7	Spot-checking
4765547E	VIG7	Monopole	Qvof	Undetermined Potential	7	Spot-checking
4765548E	VIG7	Monopole	Qvof	Undetermined Potential	7	Spot-checking
4765549E	VIG7	Monopole	Qvof	Undetermined Potential	7	Spot-checking
4765550E	VIG7	Monopole	Qvof	Undetermined Potential	7	Spot-checking
4765551E	VIG7	Monopole	Qvof	Undetermined Potential	7	Spot-checking
4765552E	VIG7	Monopole	Qvof	Undetermined Potential	7	Spot-checking
4765553E	VIG7	Monopole	Qoa	High Potential	7	Full-time Monitoring
4765554E	VIG7	Monopole	Qoa	High Potential	7	Full-time Monitoring
4765555E	VIG7	Monopole	Qoa	High Potential	7	Full-time Monitoring
4765556E	VIG7	Monopole	Qoa	High Potential	7	Full-time Monitoring
4765557E	VIG7	Monopole	Qyf	Low Potential	7	No Monitoring
4765558E	VIG7	Monopole	Qyf	Low Potential	7	No Monitoring
4765559E	VIG7	Monopole	Qyf	Low Potential	7	No Monitoring
4765560E	VIG7	Monopole	Qyf	Low Potential	7	No Monitoring
4765561E	VIG7	Monopole	Qyf	Low Potential	7	No Monitoring
4765562E	VIG7	Monopole	Qyf	Low Potential	7	No Monitoring
4873280E	VIG7	Monopole	Qyf	Low Potential	7	No Monitoring
Anchor Work Areas	VIG7	General Disturbance Area	Qoa	High Potential	7	Full-time Monitoring
Anchor Work Areas	VIG7	General Disturbance Area	Qyf	Low Potential	7	No Monitoring
Anchor Work Areas	VIG7	General Disturbance Area	Qvof	Undetermined Potential	7	Spot-checking
COMM P1	VIG7	Monopole	Qyf	Low Potential	7	No Monitoring
Guard Sites	VIG7	Guard Site	Qyf	Low Potential	7	No Monitoring
Guy Anchors	VIG7	Guy Anchor	Qoa	High Potential	7	Full-time Monitoring
Guy Anchors	VIG7	Guy Anchor	Qyf	Low Potential	7	No Monitoring
Guy Anchors	VIG7	Guy Anchor	Qvof	Undetermined Potential	7	Spot-checking
Guy Support Line	VIG7	ОН	Qoa	High Potential	7	Full-time Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
Guy Support Line	VIG7	OH	Qyf	Low Potential	7	No Monitoring
Guy Support Line	VIG7	OH	Qvof	Undetermined Potential	7	Spot-checking
Overhead Fiber Optic Cable	VIG7	ОН	Qoa	High Potential	7	Full-time Monitoring
Overhead Fiber Optic Cable	VIG7	ОН	Qyf	Low Potential	7	No Monitoring
Overhead Fiber Optic Cable	VIG7	ОН	Qvof	Undetermined Potential	7	Spot-checking
Pole Impact Areas	VIG7	O_M	Qoa	High Potential	7	Full-time Monitoring
Pole Impact Areas	VIG7	O_M	Qyf	Low Potential	7	No Monitoring
Pole Impact Areas	VIG7	O_M	Qvof	Undetermined Potential	7	Spot-checking
Seg7-GS4	VIG7	Guard Pole	Qyf	Low Potential	7	No Monitoring
Structure Work Areas	VIG7	Structure Work Area	Qoa	High Potential	7	Full-time Monitoring
Structure Work Areas	VIG7	Structure Work Area	Qyf	Low Potential	7	No Monitoring
Structure Work Area	VIG7	Structure Work Area	Qvof	Undetermined Potential	7	Spot-checking
Structure Work Areas	VIG7	Structure Work Area	Qvof	Undetermined Potential	7	Spot-checking
Telcom Pull Sites	VIG7	Pull Site	Qyf	Low Potential	7	No Monitoring
Valley-Ivyglen	VIG7	ОН	Qoa	High Potential	7	Full-time Monitoring
Valley-Ivyglen	VIG7	ОН	Qyf	Low Potential	7	No Monitoring
Valley-Ivyglen	VIG7	ОН	Qvof	Undetermined Potential	7	Spot-checking
Access Roads	VIG7	Ground Disturbance Area	Qyw	Low Potential	8	No Monitoring
Access Roads	VIG7	Ground Disturbance Area	Qyf	Low Potential	8	No Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
Overhead Fiber Optic Cable	VIG6	ОН	Qyf	Low Potential	8	No Monitoring
Overland Travel	VIG6	Overland Travel	Qyf	Low Potential	8	No Monitoring
Pole Impact Areas	VIG6	O_M	Qyf	Low Potential	8	No Monitoring
Pull Sites	VIG6	Pull Site	Qyf	Low Potential	8	No Monitoring
Structure Work Areas	VIG6	Structure Work Area	Qyf	Low Potential	8	No Monitoring
Valley-Ivyglen	VIG6	ОН	Qyf	Low Potential	8	No Monitoring
1853817E	VIG7	Monopole	Qyf	Low Potential	8	No Monitoring
2131488E	VIG7	Monopole	Qyf	Low Potential	8	No Monitoring
2131489E	VIG7	Monopole	Qvof	Undetermined Potential	8	Spot-checking
4765535E	VIG7	Monopole	Qyf	Low Potential	8	No Monitoring
4765536E	VIG7	Monopole	Qyf	Low Potential	8	No Monitoring
4765537E	VIG7	Monopole	Qyf	Low Potential	8	No Monitoring
4765538E	VIG7	Monopole	Qyf	Low Potential	8	No Monitoring
4765539E	VIG7	Monopole	Qyf	Low Potential	8	No Monitoring
4765540E	VIG7	Monopole	Qyf	Low Potential	8	No Monitoring
4765541E	VIG7	Monopole	Qyf	Low Potential	8	No Monitoring
4765542E	VIG7	Monopole	Qvof	Undetermined Potential	8	Spot-checking
4765543E	VIG7	Monopole	Qvof	Undetermined Potential	8	Spot-checking
4765544E	VIG7	Monopole	Qvof	Undetermined Potential	8	Spot-checking
4765545E	VIG7	Monopole	Qvof	Undetermined Potential	8	Spot-checking
4873293E	VIG7	Monopole	Qyf	Low Potential	8	No Monitoring
4873298E	VIG7	Monopole	Qyf	Low Potential	8	No Monitoring
4928123E	VIG7	Monopole	Qyf	Low Potential	8	No Monitoring
Access Roads	VIG7	Access Road	Qyw	Low Potential	8	No Monitoring
Access Roads	VIG7	Access Road	Qyf	Low Potential	8	No Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
COMM P1	VIG7	Monopole	Qyf	Low Potential	8	No Monitoring
Guard Sites	VIG7	Guard Site	Qyf	Low Potential	8	No Monitoring
Guard Sites	VIG7	Guard Site	Qvof	Undetermined Potential	8	Spot-checking
Guy Anchor	VIG7	Guy Anchor	Qvof	Undetermined Potential	8	Spot-checking
Guy Support Line	VIG7	OH	Qvof	Undetermined Potential	8	Spot-checking
Overhead Fiber Optic Cable	VIG7	ОН	Qyf	Low Potential	8	No Monitoring
Overhead Fiber Optic Cable	VIG7	ОН	Qyw	Low Potential	8	No Monitoring
Overhead Fiber Optic Cable	VIG7	ОН	Qvof	Undetermined Potential	8	Spot-checking
Overland Travel	VIG7	Overland Travel	Qyw	Low Potential	8	No Monitoring
Pole Impact Areas	VIG7	O_M	Qyf	Low Potential	8	No Monitoring
Pole Impact Areas	VIG7	O_M	Qvof	Undetermined Potential	8	Spot-checking
Pull Sites	VIG7	Pull Site	Qyf	Low Potential	8	No Monitoring
Seg7-GS1	VIG7	Guard Pole	Qyf	Low Potential	8	No Monitoring
Seg7-GS2	VIG7	Guard Pole	Qyf	Low Potential	8	No Monitoring
Seg7-GS3	VIG7	Guard Pole	Qvof	Undetermined Potential	8	Spot-checking
Structure Work Areas	VIG7	Structure Work Area	Qyf	Low Potential	8	No Monitoring
Structure Work Areas	VIG7	Structure Work Area	Qyw	Low Potential	8	No Monitoring
Structure Work Areas	VIG7	Structure Work Area	Qvof	Undetermined Potential	8	Spot-checking
Valley-Ivyglen	VIG7	ОН	Qyf	Low Potential	8	No Monitoring
Valley-Ivyglen	VIG7	OH	Qyw	Low Potential	8	No Monitoring
Valley-Ivyglen	VIG7	OH	Qvof	Undetermined Potential	8	Spot-checking

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
Access Roads	VIG6	Ground Disturbance Area	Qyf	Low Potential	9	No Monitoring
Access Roads	VIG6	Ground Disturbance Area	Qvof	Undetermined Potential	9	Spot-checking
Crane Pads	VIG6	Ground Disturbance Area	Qvof	Undetermined Potential	9	Spot-checking
Gabion Baskets	VIG6	Erosion Control	Qyf	Low Potential	9	No Monitoring
Gabion Baskets	VIG6	Erosion Control	Qvof	Undetermined Potential	9	Spot-checking
McCarthy Drain Single	VIG6	Erosion Control	Qvof	Undetermined Potential	9	Spot-checking
Rip Rap	VIG6	Erosion Control	Qvof	Undetermined Potential	9	Spot-checking
Orange Yard	Unknown	Yard	Qyf	Low Potential	9	No Monitoring
4765529E	VIG6	Monopole	Qvof	Undetermined Potential	9	Spot-checking
4765530E	VIG6	Monopole	Qvof	Undetermined Potential	9	Spot-checking
4765531E	VIG6	Monopole	Qvof	Undetermined Potential	9	Spot-checking
4765532E	VIG6	Monopole	Qvof	Undetermined Potential	9	Spot-checking
4765533E	VIG6	Monopole	Qvof	Undetermined Potential	9	Spot-checking
Access Roads	VIG6	Access Road	Qyf	Low Potential	9	No Monitoring
Access Roads	VIG6	Access Road	Qvof	Undetermined Potential	9	Spot-checking
Anchor Work Areas	VIG6	General Disturbance Area	Qvof	Undetermined Potential	9	Spot-checking
Dragon Fly Ct	VIG6	Access Road	Qyf	Low Potential	9	No Monitoring
Dragon Fly Ct	VIG6	Access Road	Qvof	Undetermined Potential	9	Spot-checking
Guy Anchors	VIG6	Guy Anchor	Qvof	Undetermined Potential	9	Spot-checking
Guy Support Lines	VIG6	ОН	Qvof	Undetermined Potential	9	Spot-checking
Overhead Fiber Optic Cable	VIG6	ОН	Qyf	Low Potential	9	No Monitoring
Overhead Fiber Optic Cable	VIG6	ОН	Qvof	Undetermined Potential	9	Spot-checking
Overland Travel	VIG6	Overland Travel	Qvof	Undetermined Potential	9	Spot-checking
P1	VIG6	Monopole	Qvof	Undetermined Potential	9	Spot-checking

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
P2	VIG6	TBD	Qvof	Undetermined Potential	9	Spot-checking
Pole Impact Areas	VIG6	O_M	Qvof	Undetermined Potential	9	Spot-checking
Pull Sites	VIG6	Pull Site	Qyf	Low Potential	9	No Monitoring
Pull Sites	VIG6	Pull Site	Qvof	Undetermined Potential	9	Spot-checking
Structure Work Areas	VIG6	Structure Work Area	Qoa	High Potential	9	Full-time Monitoring
Structure Work Areas	VIG6	Structure Work Area	Qyf	Low Potential	9	No Monitoring
Structure Work Areas	VIG6	Structure Work Area	Qvof	Undetermined Potential	9	Spot-checking
Valley-Ivyglen	VIG6	OH	Qyf	Low Potential	9	No Monitoring
Valley-Ivyglen	VIG6	OH	Qvof	Undetermined Potential	9	Spot-checking
Access Roads	VIG6	Ground Disturbance Area	Qyw	Low Potential	10	No Monitoring
Access Roads	VIG6	Ground Disturbance Area	Qof	Undetermined Potential	10	Spot-checking
Access Roads	VIG6	Grading Limit	Qvof	Undetermined Potential	10	Spot-checking
Crane Pads	VIG6	Ground Disturbance Area	Qvof	Undetermined Potential	10	Spot-checking
Gabion Baskets	VIG6	Erosion Control	Qvof	Undetermined Potential	10	Spot-checking
Gabion Baskets	VIG6	Erosion Control	Qof	Undetermined Potential	10	Spot-checking
McCarthy Drain Single	VIG6	Erosion Control	Qvof	Undetermined Potential	10	Spot-checking
Rip Rap	VIG6	Erosion Control	Qvof	Undetermined Potential	10	Spot-checking
Tree Trimming Area	Multiple	Vegetation Removal	Qyw	Low Potential	10	No Monitoring
4026610E (R-9)	VIG5	Monopole	Qyw	Low Potential	10	No Monitoring
FIG-UNK	VIG5	Monopole	Qyw	Low Potential	10	No Monitoring
Fogarty-Ivyglen	VIG5	OH	Qyw	Low Potential	10	No Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	Qyw	Low Potential	10	No Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
Pole Impact Areas	VIG5	O_M	Qyw	Low Potential	10	No Monitoring
Pull Sites	VIG5	Pull Site	Qyw	Low Potential	10	No Monitoring
Structure Work Areas	VIG5	Structure Work Area	Qyw	Low Potential	10	No Monitoring
Structure Work Areas	VIG5	Structure Work Area	Qvof	Undetermined Potential	10	Spot-checking
Valley-Ivyglen	VIG5	ОН	Qyw	Low Potential	10	No Monitoring
4765520E	VIG6	Monopole	Qyw	Low Potential	10	No Monitoring
4765521E	VIG6	Monopole	Qyw	Low Potential	10	No Monitoring
4765522E	VIG6	Monopole	Qyw	Low Potential	10	No Monitoring
4765523E	VIG6	Monopole	Qyw	Low Potential	10	No Monitoring
4765524E	VIG6	Monopole	Qyw	Low Potential	10	No Monitoring
4765525E	VIG6	Monopole	Qvof	Undetermined Potential	10	Spot-checking
4765526E	VIG6	Monopole	Qvof	Undetermined Potential	10	Spot-checking
4765527E	VIG6	Monopole	Qvof	Undetermined Potential	10	Spot-checking
4765528E	VIG6	Monopole	Qvof	Undetermined Potential	10	Spot-checking
4765529E	VIG6	Monopole	Qvof	Undetermined Potential	10	Spot-checking
Access Roads	VIG6	Access Road	Qyw	Low Potential	10	No Monitoring
Access Roads	VIG6	Access Road	Qvof	Undetermined Potential	10	Spot-checking
Access Roads	VIG6	Access Road	Qof	Undetermined Potential	10	Spot-checking
Anchor Work Areas	VIG6	General Disturbance Area	Qyw	Low Potential	10	No Monitoring
Anchor Work Areas	VIG6	General Disturbance Area	Qvof	Undetermined Potential	10	Spot-checking
General Disturbance Areas	VIG6	General Disturbance Area	Qyw	Low Potential	10	No Monitoring
Guy Anchor	VIG6	Guy Anchor	Qyw	Low Potential	10	No Monitoring
Guy Anchors	VIG6	Guy Anchor	Qvof	Undetermined Potential	10	Spot-checking
Guy Support Line	VIG6	ОН	Qyw	Low Potential	10	No Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
Guy Support Line	VIG6	OH	Qvof	Undetermined Potential	10	Spot-checking
Overhead Fiber Optic Cable	VIG6	ОН	Qyw	Low Potential	10	No Monitoring
Overhead Fiber Optic Cable	VIG6	ОН	Qvof	Undetermined Potential	10	Spot-checking
Overland Travel	VIG6	Overland Travel	Qyw	Low Potential	10	No Monitoring
Overland Travel	VIG6	Overland Travel	Qvof	Undetermined Potential	10	Spot-checking
P1	VIG6	TBD	Qyw	Low Potential	10	No Monitoring
P1	VIG6	Monopole	Qvof	Undetermined Potential	10	Spot-checking
P2	VIG6	TBD	Qvof	Undetermined Potential	10	Spot-checking
Pole Impact Areas	VIG6	O_M	Qyw	Low Potential	10	No Monitoring
Pole Impact Areas	VIG6	O_M	Qvof	Undetermined Potential	10	Spot-checking
Pull Sites	VIG6	Pull Site	Qyw	Low Potential	10	No Monitoring
Pull Sites	VIG6	Pull Site	Qvof	Undetermined Potential	10	Spot-checking
Structure Work Areas	VIG6	Structure Work Area	Qyw	Low Potential	10	No Monitoring
Structure Work Areas	VIG6	Structure Work Area	Qvof	Undetermined Potential	10	Spot-checking
TBD	VIG6	Monopole	Qyw	Low Potential	10	No Monitoring
TBD	VIG6	Monopole	Qvof	Undetermined Potential	10	Spot-checking
TBD	VIG6	TBD	Qvof	Undetermined Potential	10	Spot-checking
Telcom Pull Sites	VIG6	Pull Site	Qyw	Low Potential	10	No Monitoring
UNK_DIST	VIG6	Monopole	Qyw	Low Potential	10	No Monitoring
Valley-Ivyglen	VIG6	OH	Qyw	Low Potential	10	No Monitoring
Valley-Ivyglen	VIG6	OH	Qvof	Undetermined Potential	10	Spot-checking
Access Roads	VIG6	Ground Disturbance Area	Qof	Undetermined Potential	11	Spot-checking
Access Roads	VIG6	Ground Disturbance Area	Qvof	Undetermined Potential	11	Spot-checking

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
Access Road	VIG6	Ground Disturbance Area	Qvof	Undetermined Potential	11	Spot-checking
Gabion Baskets	VIG6	Erosion Control	Qvof	Undetermined Potential	11	Spot-checking
Gabion Baskets	VIG6	Erosion Control	Qof	Undetermined Potential	11	Spot-checking
Structure Work Area	VIG5	Structure Work Area	Qyw	Low Potential	11	No Monitoring
Anchor Work Areas	VIG6	General Disturbance Area	Qyw	Low Potential	11	No Monitoring
Guy Anchor	VIG6	Guy Anchor	Qyw	Low Potential	11	No Monitoring
Guy Support Line	VIG6	OH	Qyw	Low Potential	11	No Monitoring
Overland Travel	VIG6	Overland Travel	Qyw	Low Potential	11	No Monitoring
P1	VIG6	TBD	Qyw	Low Potential	11	No Monitoring
P2	VIG6	TBD	Qyw	Low Potential	11	No Monitoring
Pull Sites	VIG6	Pull Site	Qyw	Low Potential	11	No Monitoring
Structure Work Areas	VIG6	Structure Work Area	Qyw	Low Potential	11	No Monitoring
TBD	VIG6	Monopole	Qyw	Low Potential	11	No Monitoring
Concordia Yard	Unknown	Yard	Qvoa	High Potential	12	Full-time Monitoring
Concordia Yard	Unknown	Yard	Kvsp	No Potential	13	No Monitoring
4026611E	VIG5	TBD	Qoa	High Potential	12	Full-time Monitoring
4026613E	VIG5	TBD	Qoa	High Potential	12	Full-time Monitoring
4765498E	VIG5	Monopole	Qyf	Low Potential	12	No Monitoring
4765499E	VIG5	Monopole	Qyf	Low Potential	12	No Monitoring
4765500E	VIG5	Monopole	Qyf	Low Potential	12	No Monitoring
4765501E	VIG5	Monopole	Qyf	Low Potential	12	No Monitoring
4765502E	VIG5	Monopole	Qyf	Low Potential	12	No Monitoring
4765503E	VIG5	Monopole	Qyf	Low Potential	12	No Monitoring
4765504E	VIG5	Monopole	Qyw	Low Potential	12	No Monitoring
4765505E	VIG5	Monopole	Qyw	Low Potential	12	No Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
4765506E	VIG5	Monopole	Qyw	Low Potential	12	No Monitoring
4765507E	VIG5	Monopole	Qvoa	High Potential	12	Full-time Monitoring
4765508E	VIG5	Guy	Qvoa	High Potential	12	Full-time Monitoring
4765509E	VIG5	Monopole	Qvoa	High Potential	12	Full-time Monitoring
4765510E	VIG5	Guy	Qvoa	High Potential	12	Full-time Monitoring
4765511E	VIG5	Monopole	Qvoa	High Potential	12	Full-time Monitoring
4765512E	VIG5	Guy	Qvoa	High Potential	12	Full-time Monitoring
4765513E	VIG5	Monopole	Qvoa	High Potential	12	Full-time Monitoring
4765514E	VIG5	Monopole	Qvoa	High Potential	12	Full-time Monitoring
4765515E	VIG5	Monopole	Qvoa	High Potential	12	Full-time Monitoring
4765516E	VIG5	Monopole	Qvoa	High Potential	12	Full-time Monitoring
4765517E	VIG5	Monopole	Qoa	High Potential	12	Full-time Monitoring
4765518E	VIG5	Monopole	Qoa	High Potential	12	Full-time Monitoring
4765519E	VIG5	Monopole	Qyw	Low Potential	12	No Monitoring
Anchor Work Areas	VIG5	General Disturbance Area	Qvoa	High Potential	12	Full-time Monitoring
Anchor Work Areas	VIG5	General Disturbance Area	Qyw	Low Potential	12	No Monitoring
Anchor Work Areas	VIG5	General Disturbance Area	Qyf	Low Potential	12	No Monitoring
D_TAP	VIG5	TBD	Qyf	Low Potential	12	No Monitoring
FIG-032	VIG5	Monopole	Qvoa	High Potential	12	Full-time Monitoring
FIG-033	VIG5	Monopole	Qyf	Low Potential	12	No Monitoring
FIG-034	VIG5	Monopole	Qyf	Low Potential	12	No Monitoring
FIG-035	VIG5	Monopole	Kvem	No Potential	12	No Monitoring
FIG-036	VIG5	Monopole	Kvem	No Potential	12	No Monitoring
FIG-037	VIG5	Monopole	Qya	Low Potential	12	No Monitoring
FIG-038	VIG5	Monopole	Qyw	Low Potential	12	No Monitoring
FIG-039	VIG5	Monopole	Qvoa	High Potential	12	Full-time Monitoring
FIG-040	VIG5	Monopole	Qvoa	High Potential	12	Full-time Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
FIG-041	VIG5	Monopole	Qvoa	High Potential	12	Full-time Monitoring
FIG-042	VIG5	Monopole	Qvoa	High Potential	12	Full-time Monitoring
FIG-043	VIG5	Monopole	Qvoa	High Potential	12	Full-time Monitoring
FIG-044	VIG5	Monopole	Qvoa	High Potential	12	Full-time Monitoring
FIG-045	VIG5	Monopole	Qvoa	High Potential	12	Full-time Monitoring
FIG-046	VIG5	Monopole	Qvoa	High Potential	12	Full-time Monitoring
FIG-047	VIG5	Monopole	Qoa	High Potential	12	Full-time Monitoring
FIG-048	VIG5	Monopole	Qoa	High Potential	12	Full-time Monitoring
FIG-049	VIG5	Monopole	Qoa	High Potential	12	Full-time Monitoring
Fogarty-Ivyglen	VIG5	OH	Qoa	High Potential	12	Full-time Monitoring
Fogarty-Ivyglen	VIG5	OH	Qvoa	High Potential	12	Full-time Monitoring
Fogarty-Ivyglen	VIG5	ОН	Qyf	Low Potential	12	No Monitoring
Fogarty-Ivyglen	VIG5	OH	Qyw	Low Potential	12	No Monitoring
Fogarty-Ivyglen	VIG5	OH	Qya	Low Potential	12	No Monitoring
Fogarty-Ivyglen	VIG5	OH	Kvem	No Potential	12	No Monitoring
Guard Sites	VIG5	Guard Site	Qoa	High Potential	12	Full-time Monitoring
Guard Sites	VIG5	Guard Site	Qyf	Low Potential	12	No Monitoring
Guy Anchors	VIG5	Guy Anchor	Qvoa	High Potential	12	Full-time Monitoring
Guy Anchors	VIG5	Guy Anchor	Qyf	Low Potential	12	No Monitoring
Guy Anchors	VIG5	Guy Anchor	Qyw	Low Potential	12	No Monitoring
Guy Support Lines	VIG5	ОН	Qvoa	High Potential	12	Full-time Monitoring
Guy Support Lines	VIG5	OH	Qyw	Low Potential	12	No Monitoring
Guy Support Lines	VIG5	ОН	Qyf	Low Potential	12	No Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	Qoa	High Potential	12	Full-time Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	Qvoa	High Potential	12	Full-time Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
Overhead Fiber Optic Cable	VIG5	ОН	Qyf	Low Potential	12	No Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	Qyw	Low Potential	12	No Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	Qya	Low Potential	12	No Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	Kvem	No Potential	12	No Monitoring
Overland Travel	VIG5	Overland Travel	Qvoa	High Potential	12	Full-time Monitoring
Overland Travel	VIG5	Overland Travel	Qyw	Low Potential	12	No Monitoring
Overland Travel	VIG5	Overland Travel	Qya	Low Potential	12	No Monitoring
P1	VIG5	Monopole	Qvoa	High Potential	12	Full-time Monitoring
P1	VIG5	TBD	Qoa	High Potential	12	Full-time Monitoring
P1	VIG5	Monopole	Qya	Low Potential	12	No Monitoring
P2	VIG5	Monopole	Qya	Low Potential	12	No Monitoring
P2135594E	VIG5	Monopole	Qvoa	High Potential	12	Full-time Monitoring
Pole Impact Areas	VIG5	O_M	Qoa	High Potential	12	Full-time Monitoring
Pole Impact Areas	VIG5	O_M	Qvoa	High Potential	12	Full-time Monitoring
Pole Impact Areas	VIG5	O_M	Qyf	Low Potential	12	No Monitoring
Pole Impact Areas	VIG5	O_M	Qyw	Low Potential	12	No Monitoring
Pole Impact Areas	VIG5	O_M	Qya	Low Potential	12	No Monitoring
Pole Impact Areas	VIG5	O_M	Kvem	No Potential	12	No Monitoring
Pull Sites	VIG5	Pull Site	Qvoa	High Potential	12	Full-time Monitoring
Pull Sites	VIG5	Pull Site	Qoa	High Potential	12	Full-time Monitoring
Pull Sites	VIG5	Pull Site	Qyw	Low Potential	12	No Monitoring
Pull Sites	VIG5	Pull Site	Qyf	Low Potential	12	No Monitoring
Seg5-GS10	VIG5	Guard Pole	Qoa	High Potential	12	Full-time Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
Seg5-GS9	VIG5	Guard Pole	Qyf	Low Potential	12	No Monitoring
Structure Work Areas	VIG5	Structure Work Area	Qvoa	High Potential	12	Full-time Monitoring
Structure Work Areas	VIG5	Structure Work Area	Qoa	High Potential	12	Full-time Monitoring
Structure Work Areas	VIG5	Structure Work Area	Qyw	Low Potential	12	No Monitoring
Structure Work Areas	VIG5	Structure Work Area	Qyf	Low Potential	12	No Monitoring
Structure Work Areas	VIG5	Structure Work Area	Qya	Low Potential	12	No Monitoring
Structure Work Areas	VIG5	Structure Work Area	Kvem	No Potential	12	No Monitoring
Valley-Ivyglen	VIG5	OH	Qoa	High Potential	12	Full-time Monitoring
Valley-Ivyglen	VIG5	OH	Qvoa	High Potential	12	Full-time Monitoring
Valley-Ivyglen	VIG5	OH	Qyw	Low Potential	12	No Monitoring
Valley-Ivyglen	VIG5	OH	Qya	Low Potential	12	No Monitoring
Valley-Ivyglen	VIG5	OH	Qyf	Low Potential	12	No Monitoring
4026611E	VIG5	TBD	Qoa	High Potential	13	Full-time Monitoring
Anchor Work Areas	VIG5	General Disturbance Area	Qvoa	High Potential	13	Full-time Monitoring
Anchor Work Areas	VIG5	General Disturbance Area	Qyf	Low Potential	13	No Monitoring
Anchor Work Areas	VIG5	General Disturbance Area	Qyw	Low Potential	13	No Monitoring
FIG-035	VIG5	Monopole	Kvem	No Potential	13	No Monitoring
FIG-036	VIG5	Monopole	Kvem	No Potential	13	No Monitoring
FIG-037	VIG5	Monopole	Qya	Low Potential	13	No Monitoring
FIG-038	VIG5	Monopole	Qyw	Low Potential	13	No Monitoring
FIG-039	VIG5	Monopole	Qvoa	High Potential	13	Full-time Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
FIG-040	VIG5	Monopole	Qvoa	High Potential	13	Full-time Monitoring
FIG-041	VIG5	Monopole	Qvoa	High Potential	13	Full-time Monitoring
FIG-042	VIG5	Monopole	Qvoa	High Potential	13	Full-time Monitoring
FIG-043	VIG5	Monopole	Qvoa	High Potential	13	Full-time Monitoring
FIG-044	VIG5	Monopole	Qvoa	High Potential	13	Full-time Monitoring
FIG-045	VIG5	Monopole	Qvoa	High Potential	13	Full-time Monitoring
FIG-046	VIG5	Monopole	Qvoa	High Potential	13	Full-time Monitoring
FIG-047	VIG5	Monopole	Qoa	High Potential	13	Full-time Monitoring
FIG-048	VIG5	Monopole	Qoa	High Potential	13	Full-time Monitoring
FIG-049	VIG5	Monopole	Qoa	High Potential	13	Full-time Monitoring
Fogarty-Ivyglen	VIG5	OH	Qoa	High Potential	13	Full-time Monitoring
Fogarty-Ivyglen	VIG5	OH	Qvoa	High Potential	13	Full-time Monitoring
Fogarty-Ivyglen	VIG5	OH	Qyw	Low Potential	13	No Monitoring
Fogarty-Ivyglen	VIG5	OH	Qya	Low Potential	13	No Monitoring
Fogarty-Ivyglen	VIG5	OH	Qyf	Low Potential	13	No Monitoring
Fogarty-Ivyglen	VIG5	OH	Kvem	No Potential	13	No Monitoring
Guy Anchor	VIG5	Guy Anchor	Qvoa	High Potential	13	Full-time Monitoring
Guy Anchor	VIG5	Guy Anchor	Qyf	Low Potential	13	No Monitoring
Guy Anchor	VIG5	Guy Anchor	Qyw	Low Potential	13	No Monitoring
Guy Support Line	VIG5	OH	Qvoa	High Potential	13	Full-time Monitoring
Guy Support Line	VIG5	OH	Qyw	Low Potential	13	No Monitoring
Guy Support Line	VIG5	OH	Qyf	Low Potential	13	No Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	Qoa	High Potential	13	Full-time Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	Qvoa	High Potential	13	Full-time Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
Overhead Fiber Optic Cable	VIG5	ОН	Qyw	Low Potential	13	No Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	Qya	Low Potential	13	No Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	Qyf	Low Potential	13	No Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	Kvem	No Potential	13	No Monitoring
Overland Travel	VIG5	Overland Travel	Qvoa	High Potential	13	Full-time Monitoring
Overland Travel	VIG5	Overland Travel	Qyw	Low Potential	13	No Monitoring
Overland Travel	VIG5	Overland Travel	Qya	Low Potential	13	No Monitoring
P1	VIG5	Monopole	Qvoa	High Potential	13	Full-time Monitoring
P1	VIG5	Monopole	Qya	Low Potential	13	No Monitoring
P2	VIG5	Monopole	Qya	Low Potential	13	No Monitoring
P2135594E	VIG5	Monopole	Qvoa	High Potential	13	Full-time Monitoring
Pole Impact Areas	VIG5	O_M	Qoa	High Potential	13	Full-time Monitoring
Pole Impact Areas	VIG5	O_M	Qvoa	High Potential	13	Full-time Monitoring
Pole Impact Areas	VIG5	O_M	Qyw	Low Potential	13	No Monitoring
Pole Impact Areas	VIG5	O_M	Qya	Low Potential	13	No Monitoring
Pole Impact Areas	VIG5	O_M	Qyf	Low Potential	13	No Monitoring
Pole Impact Areas	VIG5	O_M	Kvem	No Potential	13	No Monitoring
Structure Work Areas	VIG5	Structure Work Area	Qoa	High Potential	13	Full-time Monitoring
Structure Work Areas	VIG5	Structure Work Area	Qvoa	High Potential	13	Full-time Monitoring
Structure Work Areas	VIG5	Structure Work Area	Qya	Low Potential	13	No Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
Structure Work Areas	VIG5	Structure Work Area	Qyf	Low Potential	13	No Monitoring
Structure Work Areas	VIG5	Structure Work Area	Qyw	Low Potential	13	No Monitoring
Structure Work Areas	VIG5	Structure Work Area	Kvem	No Potential	13	No Monitoring
4765489E	VIG5	Monopole	Qyw	Low Potential	14	No Monitoring
4765490E	VIG5	Monopole	Qyw	Low Potential	14	No Monitoring
4765491E	VIG5	Monopole	Qyw	Low Potential	14	No Monitoring
4765492E	VIG5	Monopole	Qyw	Low Potential	14	No Monitoring
4765493E	VIG5	Monopole	Qyw	Low Potential	14	No Monitoring
4765494E	VIG5	Monopole	Qyf	Low Potential	14	No Monitoring
4765495E	VIG5	Monopole	Qyf	Low Potential	14	No Monitoring
4765496E	VIG5	Monopole	Qyf	Low Potential	14	No Monitoring
4765497E	VIG5	Monopole	Qyf	Low Potential	14	No Monitoring
4765498E	VIG5	Monopole	Qyf	Low Potential	14	No Monitoring
4765499E	VIG5	Monopole	Qyf	Low Potential	14	No Monitoring
Anchor Work Areas	VIG5	General Disturbance Area	Qyf	Low Potential	14	No Monitoring
FIG-022	VIG5	Monopole	Qyf	Low Potential	14	No Monitoring
FIG-023	VIG5	Monopole	Qyf	Low Potential	14	No Monitoring
FIG-024	VIG5	Monopole	Qyf	Low Potential	14	No Monitoring
FIG-025	VIG5	Monopole	Qyf	Low Potential	14	No Monitoring
FIG-026	VIG5	Monopole	Qyw	Low Potential	14	No Monitoring
FIG-027	VIG5	Monopole	Qyw	Low Potential	14	No Monitoring
FIG-028	VIG5	Monopole	Qyf	Low Potential	14	No Monitoring
FIG-029	VIG5	Monopole	Qyf	Low Potential	14	No Monitoring
FIG-030	VIG5	Monopole	Qyf	Low Potential	14	No Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
FIG-031	VIG5	Monopole	Qvoa	High Potential	14	Full-time Monitoring
FIG-032	VIG5	Monopole	Qvoa	High Potential	14	Full-time Monitoring
FIG-033	VIG5	Monopole	Qyf	Low Potential	14	No Monitoring
Fogarty-Ivyglen	VIG5	OH	Qvoa	High Potential	14	Full-time Monitoring
Fogarty-Ivyglen	VIG5	ОН	Qyw	Low Potential	14	No Monitoring
Fogarty-Ivyglen	VIG5	ОН	Qyf	Low Potential	14	No Monitoring
Guard Sites	VIG5	Guard Site	Qvoa	High Potential	14	Full-time Monitoring
Guard Sites	VIG5	Guard Site	Qyf	Low Potential	14	No Monitoring
Guy Anchor	VIG5	Guy Anchor	Qyw	Low Potential	14	No Monitoring
Guy Anchor	VIG5	Guy Anchor	Qyf	Low Potential	14	No Monitoring
Guy Support Line	VIG5	OH	Qyw	Low Potential	14	No Monitoring
Guy Support Line	VIG5	ОН	Qyf	Low Potential	14	No Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	Qvoa	High Potential	14	Full-time Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	Qyw	Low Potential	14	No Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	Qyf	Low Potential	14	No Monitoring
P1	VIG5	Monopole	Qvoa	High Potential	14	Full-time Monitoring
P1	VIG5	TBD	Qyf	Low Potential	14	No Monitoring
Pole Impact Areas	VIG5	O_M	Qvoa	High Potential	14	Full-time Monitoring
Pole Impact Areas	VIG5	O_M	Qyf	Low Potential	14	No Monitoring
Pole Impact Areas	VIG5	O_M	Qyw	Low Potential	14	No Monitoring
Pull Sites	VIG5	Pull Site	Qvoa	High Potential	14	Full-time Monitoring
Pull Sites	VIG5	Pull Site	Qyw	Low Potential	14	No Monitoring
Pull Sites	VIG5	Pull Site	Qyf	Low Potential	14	No Monitoring
Pull Site	VIG5	Pull Site	Kvem	No Potential	14	No Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
Seg5-GS6	VIG5	Guard Pole	Qyf	Low Potential	14	No Monitoring
Seg5-GS7	VIG5	Guard Pole	Qvoa	High Potential	14	Full-time Monitoring
Seg5-GS7A	VIG5	Guard Pole	Qyf	Low Potential	14	No Monitoring
Seg5-GS8	VIG5	Guard Pole	Qyf	Low Potential	14	No Monitoring
Seg5-GS9	VIG5	Guard Pole	Qyf	Low Potential	14	No Monitoring
Structure Work Areas	VIG5	Structure Work Area	Qvoa	High Potential	14	Full-time Monitoring
Structure Work Areas	VIG5	Structure Work Area	Qyf	Low Potential	14	No Monitoring
Structure Work Areas	VIG5	Structure Work Area	Qyw	Low Potential	14	No Monitoring
Valley-Ivyglen	VIG5	ОН	Qyw	Low Potential	14	No Monitoring
Valley-Ivyglen	VIG5	ОН	Qyf	Low Potential	14	No Monitoring
Valley-Ivyglen	VIG5	ОН	Qyw	Low Potential	14	No Monitoring
Access Roads	VIG5	Grading Limit	Qya	Low Potential	15	No Monitoring
Access Roads	VIG5	Grading Limit	Qyw	Low Potential	15	No Monitoring
Crane Pads	VIG5	Ground Disturbance Area	Qya	Low Potential	15	No Monitoring
Crane Pads	VIG5	Ground Disturbance Area	Qyw	Low Potential	15	No Monitoring
Gabion Baskets	VIG5	Erosion Control	Qyw	Low Potential	15	No Monitoring
Tree Trimming Area	Multiple	Vegetation Removal	Qyw	Low Potential	15	No Monitoring
Tree Trimming Area	Multiple	Vegetation Removal	Qya	Low Potential	15	No Monitoring
13316S	VIG5	TBD	Qya	Low Potential	15	No Monitoring
2112510E	VIG5	TBD	Qyw	Low Potential	15	No Monitoring
2224957E	VIG5	Monopole	Qyw	Low Potential	15	No Monitoring
4106973E	VIG5	Monopole	Qya	Low Potential	15	No Monitoring
4106974E	VIG5	Monopole	Qya	Low Potential	15	No Monitoring
4106975E	VIG5	Monopole	Qya	Low Potential	15	No Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
4106976E	VIG5	Monopole	Qya	Low Potential	15	No Monitoring
4106977E	VIG5	Monopole	Qya	Low Potential	15	No Monitoring
4106978E	VIG5	Monopole	Qya	Low Potential	15	No Monitoring
4106979E	VIG5	Monopole	Qya	Low Potential	15	No Monitoring
4106980E	VIG5	Monopole	Qya	Low Potential	15	No Monitoring
4106981E	VIG5	Monopole	Qya	Low Potential	15	No Monitoring
4106982E	VIG5	TBD	Qyw	Low Potential	15	No Monitoring
4212108E	VIG5	Monopole	Qyw	Low Potential	15	No Monitoring
4765477E	VIG5	Monopole	Qya	Low Potential	15	No Monitoring
4765478E	VIG5	Monopole	Qya	Low Potential	15	No Monitoring
4765479E	VIG5	Monopole	Qya	Low Potential	15	No Monitoring
4765480E	VIG5	Monopole	Qya	Low Potential	15	No Monitoring
4765481E	VIG5	Monopole	Qya	Low Potential	15	No Monitoring
4765482E	VIG5	Monopole	Qyw	Low Potential	15	No Monitoring
4765483E	VIG5	Monopole	Qyw	Low Potential	15	No Monitoring
4765484E	VIG5	Monopole	Qyw	Low Potential	15	No Monitoring
4765485E	VIG5	Monopole	Qyw	Low Potential	15	No Monitoring
4765486E	VIG5	Monopole	Qyw	Low Potential	15	No Monitoring
4765487E	VIG5	Monopole	Qyf	Low Potential	15	No Monitoring
4765488E	VIG5	Monopole	Qyf	Low Potential	15	No Monitoring
4765489E	VIG5	Monopole	Qyw	Low Potential	15	No Monitoring
4765490E	VIG5	Monopole	Qyw	Low Potential	15	No Monitoring
4765491E	VIG5	Monopole	Qyw	Low Potential	15	No Monitoring
Anchor Work Areas	VIG5	General Disturbance Area	Qyw	Low Potential	15	No Monitoring
FIG-011	VIG5	Monopole	Qya	Low Potential	15	No Monitoring
FIG-012	VIG5	Monopole	Qya	Low Potential	15	No Monitoring
FIG-013	VIG5	Monopole	Qya	Low Potential	15	No Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
FIG-014	VIG5	Monopole	Qya	Low Potential	15	No Monitoring
FIG-015	VIG5	Monopole	Qya	Low Potential	15	No Monitoring
FIG-016	VIG5	Monopole	Qyw	Low Potential	15	No Monitoring
FIG-017	VIG5	Monopole	Qya	Low Potential	15	No Monitoring
FIG-018	VIG5	Monopole	Qyw	Low Potential	15	No Monitoring
FIG-019	VIG5	Monopole	Qyw	Low Potential	15	No Monitoring
FIG-020	VIG5	Monopole	Qyf	Low Potential	15	No Monitoring
FIG-021	VIG5	Monopole	Qyf	Low Potential	15	No Monitoring
FIG-022	VIG5	Monopole	Qyf	Low Potential	15	No Monitoring
FIG-023	VIG5	Monopole	Qyf	Low Potential	15	No Monitoring
FIG-024	VIG5	Monopole	Qyf	Low Potential	15	No Monitoring
FIG-025	VIG5	Monopole	Qyf	Low Potential	15	No Monitoring
Fogarty-Ivyglen	VIG5	OH	Qyw	Low Potential	15	No Monitoring
Fogarty-Ivyglen	VIG5	OH	Qyf	Low Potential	15	No Monitoring
Fogarty-Ivyglen	VIG5	OH	Qya	Low Potential	15	No Monitoring
Guard Sites	VIG5	Guard Site	Qyw	Low Potential	15	No Monitoring
Guard Sites	VIG5	Guard Site	Qyf	Low Potential	15	No Monitoring
Guy Anchor	VIG5	Guy Anchor	Qyw	Low Potential	15	No Monitoring
Guy Support Line	VIG5	OH	Qyw	Low Potential	15	No Monitoring
Guy Support Line	VIG5	OH	Qyf	Low Potential	15	No Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	Qyw	Low Potential	15	No Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	Qyf	Low Potential	15	No Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	Qya	Low Potential	15	No Monitoring
Overland Travel	VIG5	Overland Travel	Qyw	Low Potential	15	No Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
Overland Travel	VIG5	Overland Travel	Qya	Low Potential	15	No Monitoring
P1	VIG5	TBD	Qyf	Low Potential	15	No Monitoring
Pole Impact Areas	VIG5	O_M	Qyw	Low Potential	15	No Monitoring
Pole Impact Areas	VIG5	O_M	Qyf	Low Potential	15	No Monitoring
Pole Impact Areas	VIG5	O_M	Qya	Low Potential	15	No Monitoring
Pull Sites	VIG5	Pull Site	Qyw	Low Potential	15	No Monitoring
Pull Sites	VIG5	Pull Site	Qya	Low Potential	15	No Monitoring
Pull Sites	VIG5	Pull Site	Qyf	Low Potential	15	No Monitoring
Seg5-GS3	VIG5	Guard Pole	Qyw	Low Potential	15	No Monitoring
Seg5-GS4	VIG5	Guard Pole	Qyw	Low Potential	15	No Monitoring
Seg5-GS5	VIG5	Guard Pole	Qyw	Low Potential	15	No Monitoring
Structure Work Areas	VIG5	Structure Work Area	Qya	Low Potential	15	No Monitoring
Structure Work Areas	VIG5	Structure Work Area	Qyw	Low Potential	15	No Monitoring
Structure Work Areas	VIG5	Structure Work Area	Qyf	Low Potential	15	No Monitoring
Structure Work Areas	VIG5	Structure Work Area	Kvsp	No Potential	15	No Monitoring
Valley-Ivyglen	VIG5	ОН	Qyw	Low Potential	15	No Monitoring
Valley-Ivyglen	VIG5	ОН	Qyf	Low Potential	15	No Monitoring
Valley-Ivyglen	VIG5	ОН	Qya	Low Potential	15	No Monitoring
Wire Removal Sites	VIG5	General Disturbance Area	Qya	Low Potential	15	No Monitoring
Access Roads	VIG5	Grading Limit	Qya	Low Potential	16	No Monitoring
Access Roads	VIG5	Grading Limit	Trmu	No Potential	16	No Monitoring
4106969E	VIG5	Monopole	Trmu	No Potential	16	No Monitoring
4765469E	VIG5	Monopole	Qvoa	High Potential	16	Full-time Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
4765470E	VIG5	Monopole	Qvoa	High Potential	16	Full-time Monitoring
4765471E	VIG5	Monopole	Qvoa	High Potential	16	Full-time Monitoring
4765472E	VIG5	Monopole	Qvoa	High Potential	16	Full-time Monitoring
4765473E	VIG5	Monopole	Trmu	No Potential	16	No Monitoring
4765474E	VIG5	Monopole	Trmu	No Potential	16	No Monitoring
4765475E	VIG5	Monopole	Trmu	No Potential	16	No Monitoring
4765476E	VIG5	Monopole	Trmu	No Potential	16	No Monitoring
Access Road	VIG5	Access Road	Qya	Low Potential	16	No Monitoring
Access Road	VIG5	Access Road	Qya	Low Potential	16	No Monitoring
Anchor Work Areas	VIG5	General Disturbance Area	Trmu	No Potential	16	No Monitoring
FIG-009	VIG5	Monopole	Trmu	No Potential	16	No Monitoring
FIG-010	VIG5	Monopole	Trmu	No Potential	16	No Monitoring
Fogarty-Ivyglen	VIG5	OH	Qya	Low Potential	16	No Monitoring
Fogarty-Ivyglen	VIG5	OH	Trmu	No Potential	16	No Monitoring
Guy Anchor	VIG5	Guy Anchor	Trmu	No Potential	16	No Monitoring
Guy Support Line	VIG5	OH	Trmu	No Potential	16	No Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	Qvoa	High Potential	16	Full-time Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	Qya	Low Potential	16	No Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	T r mu	No Potential	16	No Monitoring
Pole Impact Areas	VIG5	O_M	Qvoa	High Potential	16	Full-time Monitoring
Pole Impact Areas	VIG5	O_M	Qya	Low Potential	16	No Monitoring
Pole Impact Areas	VIG5	O_M	Trmu	No Potential	16	No Monitoring
Pull Sites	VIG5	Pull Site	Qya	Low Potential	16	No Monitoring
Pull Sites	VIG5	Pull Site	Trmu	No Potential	16	No Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
Structure Work Areas	VIG5	Structure Work Area	Qvoa	High Potential	16	Full-time Monitoring
Structure Work Areas	VIG5	Structure Work Area	Qya	Low Potential	16	No Monitoring
Structure Work Areas	VIG5	Structure Work Area	Trmu	No Potential	16	No Monitoring
Telcom Pull Sites	VIG5	Pull Site	Qvoa	High Potential	16	Full-time Monitoring
Valley-Ivyglen	VIG5	ОН	Qvoa	High Potential	16	Full-time Monitoring
Valley-Ivyglen	VIG5	ОН	Qya	Low Potential	16	No Monitoring
Valley-Ivyglen	VIG5	ОН	Trmu	No Potential	16	No Monitoring
456 CDFW5	VIG5	Structure Work Area	Qyv	Low Potential	17	No Monitoring
456 CDFW5	VIG5	Structure Work Area	Qyv	Low Potential	17	No Monitoring
456 CDFW5	VIG5	Structure Work Area	Qyv	Low Potential	17	No Monitoring
457 CDFW6	VIG5	Structure Work Area	Qyv	Low Potential	17	No Monitoring
457 CDFW6	VIG5	Structure Work Area	Qyv	Low Potential	17	No Monitoring
457 CDFW6	VIG5	Structure Work Area	Qyv	Low Potential	17	No Monitoring
457 CDFW6	VIG5	Structure Work Area	Qyv	Low Potential	17	No Monitoring
457 CDFW6	VIG5	Structure Work Area	Qyv	Low Potential	17	No Monitoring
457 CDFW6	VIG5	Structure Work Area	Qyv	Low Potential	17	No Monitoring
457 CDFW6	VIG5	Structure Work Area	Qyv	Low Potential	17	No Monitoring
457 CDFW6	VIG5	Structure Work Area	Qyv	Low Potential	17	No Monitoring
457 CDFW6	VIG5	Structure Work Area	Qyv	Low Potential	17	No Monitoring
457 CDFW6	VIG5	Structure Work Area	Qyv	Low Potential	17	No Monitoring
457 CDFW6	VIG5	Structure Work Area	Qyv	Low Potential	17	No Monitoring
457 CDFW6	VIG5	Structure Work Area	Qyv	Low Potential	17	No Monitoring
457 CDFW6	VIG5	Structure Work Area	Qyv	Low Potential	17	No Monitoring
457 CDFW6	VIG5	Structure Work Area	Qyv	Low Potential	17	No Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
457 CDFW6	VIG5	Structure Work Area	Qyv	Low Potential	17	No Monitoring
457 CDFW6	VIG5	Structure Work Area	Qyv	Low Potential	17	No Monitoring
457 CDFW6	VIG5	Structure Work Area	Qyv	Low Potential	17	No Monitoring
457 CDFW6	VIG5	Structure Work Area	Qyv	Low Potential	17	No Monitoring
457 CDFW6	VIG5	Structure Work Area	Qyv	Low Potential	17	No Monitoring
4765457E	VIG5	Monopole	Qyv	Low Potential	17	No Monitoring
4765458E	VIG5	Monopole	Qyv	Low Potential	17	No Monitoring
4765459E	VIG5	Monopole	Qyv	Low Potential	17	No Monitoring
4765460E	VIG5	Monopole	Qyv	Low Potential	17	No Monitoring
4765461E	VIG5	Monopole	Qyv	Low Potential	17	No Monitoring
4765462E	VIG5	Monopole	Qaf	Low Potential	17	No Monitoring
4765463E	VIG5	Monopole	Qaf	Low Potential	17	No Monitoring
4765464E	VIG5	Monopole	Qaf	Low Potential	17	No Monitoring
4765465E	VIG5	Monopole	Qaf	Low Potential	17	No Monitoring
4765466E	VIG5	Monopole	Qaf	Low Potential	17	No Monitoring
4765467E	VIG5	Monopole	Qaf	Low Potential	17	No Monitoring
4765468E	VIG5	Monopole	Qvoa	High Potential	17	Full-time Monitoring
Fogarty-Ivyglen	VIG5	ОН	Qyv	Low Potential	17	No Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	Qvoa	High Potential	17	Full-time Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	Qaf	Low Potential	17	No Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	Qyv	Low Potential	17	No Monitoring
Pole Impact Areas	VIG5	O_M	Qvoa	High Potential	17	Full-time Monitoring
Pole Impact Areas	VIG5	O_M	Qyv	Low Potential	17	No Monitoring
Pole Impact Areas	VIG5	O_M	Qaf	Low Potential	17	No Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
Pull Sites	VIG5	Pull Site	Qyv	Low Potential	17	No Monitoring
Structure Work Areas	VIG5	Structure Work Area	Qvoa	High Potential	17	Full-time Monitoring
Structure Work Areas	VIG5	Structure Work Area	Qaf	Low Potential	17	No Monitoring
Structure Work Areas	VIG5	Structure Work Area	Qyv	Low Potential	17	No Monitoring
Unknown	VIG5	Monopoles	Qyv	Low Potential	17	No Monitoring
Valley-Ivyglen	VIG5	OH	Qvoa	High Potential	17	Full-time Monitoring
Valley-Ivyglen	VIG5	OH	Qaf	Low Potential	17	No Monitoring
Valley-Ivyglen	VIG5	OH	Qyv	Low Potential	17	No Monitoring
West of Lake Access Road Area	VIG5	Access Road	Qyv	Low Potential	17	No Monitoring
4	VIG5	Monopole	Qyv	Low Potential	18	No Monitoring
4133317E	VIG5	Monopole	Qyv	Low Potential	18	No Monitoring
453 CDFW2	VIG5	Structure Work Area	Qyv	Low Potential	18	No Monitoring
454 CDFW3	VIG5	Structure Work Area	Qyv	Low Potential	18	No Monitoring
455 CDFW4	VIG5	Structure Work Area	Qyv	Low Potential	18	No Monitoring
456 CDFW5	VIG5	Structure Work Area	Qyv	Low Potential	18	No Monitoring
4765446E	VIG5	Monopole	Qyv	Low Potential	18	No Monitoring
4765447E	VIG5	Monopole	Qyv	Low Potential	18	No Monitoring
4765448E	VIG5	Monopole	Qyv	Low Potential	18	No Monitoring
4765449E	VIG5	Monopole	Qyv	Low Potential	18	No Monitoring
4765450E	VIG5	Monopole	Qyv	Low Potential	18	No Monitoring
4765451E	VIG5	Monopole	Qyv	Low Potential	18	No Monitoring
4765452E	VIG5	Monopole	Qyv	Low Potential	18	No Monitoring
4765453E	VIG5	Monopole	Qyv	Low Potential	18	No Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
4765454E	VIG5	Monopole	Qyv	Low Potential	18	No Monitoring
4765455E	VIG5	Monopole	Qyv	Low Potential	18	No Monitoring
4765456E	VIG5	Monopole	Qyv	Low Potential	18	No Monitoring
Fogarty-Ivyglen	VIG5	OH	Qyv	Low Potential	18	No Monitoring
Guard Sites	VIG5	Guard Site	Qyv	Low Potential	18	No Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	Qyv	Low Potential	18	No Monitoring
P1	VIG5	TBD	Qyv	Low Potential	18	No Monitoring
Pole Impact Areas	VIG5	O_M	Qyv	Low Potential	18	No Monitoring
Pull Sites	VIG5	Pull Site	Qyv	Low Potential	18	No Monitoring
Structure Work Areas	VIG5	Structure Work Area	Qyv	Low Potential	18	No Monitoring
Telcom Pull Sites	VIG5	Pull Site	Qyv	Low Potential	18	No Monitoring
UNK_DIST	VIG5	TBD	Qyv	Low Potential	18	No Monitoring
Unknown	VIG5	Monopoles	Qyv	Low Potential	18	No Monitoring
Valley-Ivyglen	VIG5	OH	Qyv	Low Potential	18	No Monitoring
West of Lake Access Road Area	VIG5	Access Road	Qyv	Low Potential	18	No Monitoring
4133318E	VIG5	Monopole	Qyv	Low Potential	19	No Monitoring
4133319E	VIG5	Monopole	Qyv	Low Potential	19	No Monitoring
4133320E	VIG5	Monopole	Qyv	Low Potential	19	No Monitoring
4765433E	VIG5	Monopole	Qya	Low Potential	19	No Monitoring
4765434E	VIG5	Monopole	Qya	Low Potential	19	No Monitoring
4765435E	VIG5	Monopole	Qya	Low Potential	19	No Monitoring
4765436E	VIG5	Monopole	Qya	Low Potential	19	No Monitoring
4765437E	VIG5	Monopole	Qya	Low Potential	19	No Monitoring
4765438E	VIG5	Monopole	Qya	Low Potential	19	No Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
4765439E	VIG5	Monopole	Qya	Low Potential	19	No Monitoring
4765440E	VIG5	Monopole	Qya	Low Potential	19	No Monitoring
4765441E	VIG5	Monopole	Tsi	High Potential	19	Full-time Monitoring
4765442E	VIG5	Monopole	Tsi	High Potential	19	Full-time Monitoring
4765443E	VIG5	Monopole	Tsi	High Potential	19	Full-time Monitoring
4765444E	VIG5	Monopole	Qyw	Low Potential	19	No Monitoring
4765445E	VIG5	Monopole	Qyv	Low Potential	19	No Monitoring
Access Roads	VIG5	Access Road	Qya	Low Potential	19	No Monitoring
Anchor Work Areas	VIG5	General Disturbance Area	Tsi	High Potential	19	Full-time Monitoring
Fogarty-Ivyglen	VIG5	OH	Qyw	Low Potential	19	No Monitoring
Fogarty-Ivyglen	VIG5	OH	Qyv	Low Potential	19	No Monitoring
Guard Sites	VIG5	Guard Site	Qyw	Low Potential	19	No Monitoring
Guard Sites	VIG5	Guard Site	Qyv	Low Potential	19	No Monitoring
Guy Anchors	VIG5	Guy Anchor	Tsi	High Potential	19	Full-time Monitoring
Guy Support Line	VIG5	OH	Tsi	High Potential	19	Full-time Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	Tsi	High Potential	19	Full-time Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	Qyw	Low Potential	19	No Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	Qyv	Low Potential	19	No Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	Qya	Low Potential	19	No Monitoring
Overland Travel	VIG5	Overland Travel	Tsi	High Potential	19	Full-time Monitoring
Overland Travel	VIG5	Overland Travel	Qyw	Low Potential	19	No Monitoring
Overland Travel	VIG5	Overland Travel	Qyv	Low Potential	19	No Monitoring
Pole Impact Areas	VIG5	O_M	Tsi	High Potential	19	Full-time Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
Pole Impact Areas	VIG5	O_M	Qyv	Low Potential	19	No Monitoring
Pole Impact Areas	VIG5	O_M	Qya	Low Potential	19	No Monitoring
Pole Impact Areas	VIG5	O_M	Qyw	Low Potential	19	No Monitoring
Pull Sites	VIG5	Pull Site	Tsi	High Potential	19	Full-time Monitoring
Pull Sites	VIG5	Pull Site	Qyw	Low Potential	19	No Monitoring
Pull Sites	VIG5	Pull Site	Qyv	Low Potential	19	No Monitoring
Pull Site	VIG5	Pull Site	Qya	Low Potential	19	No Monitoring
Seg5-GS2	VIG5	Guard Pole	Qyw	Low Potential	19	No Monitoring
Structure Work Areas	VIG5	Structure Work Area	Tsi	High Potential	19	Full-time Monitoring
Structure Work Areas	VIG5	Structure Work Area	Qyw	Low Potential	19	No Monitoring
Structure Work Areas	VIG5	Structure Work Area	Qyv	Low Potential	19	No Monitoring
Structure Work Areas	VIG5	Structure Work Area	Qya	Low Potential	19	No Monitoring
Telcom Pull Sites	VIG5	Pull Site	Qyw	Low Potential	19	No Monitoring
Telcom Pull Sites	VIG5	Pull Site	Qyv	Low Potential	19	No Monitoring
Unknown	VIG5	Monopole	Qyv	Low Potential	19	No Monitoring
Unknown	VIG5	Monopole	Qyw	Low Potential	19	No Monitoring
Valley-Ivyglen	VIG5	OH	Tsi	High Potential	19	Full-time Monitoring
Valley-Ivyglen	VIG5	OH	Qyw	Low Potential	19	No Monitoring
Valley-Ivyglen	VIG5	OH	Qyv	Low Potential	19	No Monitoring
Valley-Ivyglen	VIG5	OH	Qya	Low Potential	19	No Monitoring
West of Lake Access Road Area	VIG5	Access Road	Qyv	Low Potential	19	No Monitoring
Gabion Baskets	TBD	Erosion Control	Tsi	High Potential	20	Full-time Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
4765413E	VIG5	Monopole	Tsi	High Potential	20	Full-time Monitoring
4765414E	VIG5	Monopole	Tsi	High Potential	20	Full-time Monitoring
4765415E	VIG5	Monopole	Tsi	High Potential	20	Full-time Monitoring
4765416E	VIG5	Monopole	Tsi	High Potential	20	Full-time Monitoring
4765417E	VIG5	Monopole	Tsi	High Potential	20	Full-time Monitoring
4765418E	VIG5	Monopole	Tsi	High Potential	20	Full-time Monitoring
4765419E	VIG5	Monopole	Tsi	High Potential	20	Full-time Monitoring
4765420E	VIG5	Monopole	Tsi	High Potential	20	Full-time Monitoring
4765421E	VIG5	Monopole	Tsi	High Potential	20	Full-time Monitoring
4765422E	VIG5	Monopole	Tsi	High Potential	20	Full-time Monitoring
4765423E	VIG5	Monopole	Tsi	High Potential	20	Full-time Monitoring
4765424E	VIG5	Monopole	Tsi	High Potential	20	Full-time Monitoring
4765425E	VIG5	Monopole	Tsi	High Potential	20	Full-time Monitoring
4765426E	VIG5	Monopole	Tsi	High Potential	20	Full-time Monitoring
4765427E	VIG5	Monopole	Tsi	High Potential	20	Full-time Monitoring
4765428E	VIG5	Monopole	Tsi	High Potential	20	Full-time Monitoring
4765429E	VIG5	Monopole	Qya	Low Potential	20	No Monitoring
4765430E	VIG5	Monopole	Qya	Low Potential	20	No Monitoring
4765431E	VIG5	Monopole	Qya	Low Potential	20	No Monitoring
4765432E	VIG5	Monopole	Qya	Low Potential	20	No Monitoring
Access Roads	VIG5	Access Road	Tsi	High Potential	20	Full-time Monitoring
Access Roads	VIG5	Access Road	Qya	Low Potential	20	No Monitoring
Anchor Work Areas	VIG5	General Disturbance Area	Tsi	High Potential	20	Full-time Monitoring
Guy Anchor	VIG5	Guy Anchor	Tsi	High Potential	20	Full-time Monitoring
Guy Support Line	VIG5	ОН	Tsi	High Potential	20	Full-time Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	Tsi	High Potential	20	Full-time Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
Overhead Fiber Optic Cable	VIG5	ОН	Qya	Low Potential	20	No Monitoring
Overland Travel	VIG5	Overland Travel	Tsi	High Potential	20	Full-time Monitoring
P1	VIG5	TBD	Tsi	High Potential	20	Full-time Monitoring
P2	VIG5	TBD	Tsi	High Potential	20	Full-time Monitoring
Pole Impact Areas	VIG5	O_M	Tsi	High Potential	20	Full-time Monitoring
Pole Impact Areas	VIG5	O_M	Qya	Low Potential	20	No Monitoring
Pull Sites	VIG5	Pull Site	Tsi	High Potential	20	Full-time Monitoring
Structure Work Areas	VIG5	Structure Work Area	Tsi	High Potential	20	Full-time Monitoring
Structure Work Areas	VIG5	Structure Work Area	Qya	Low Potential	20	No Monitoring
TBD	VIG5	Monopoles	Tsi	High Potential	20	Full-time Monitoring
Valley-Ivyglen	VIG5	OH	Tsi	High Potential	20	Full-time Monitoring
Valley-Ivyglen	VIG5	OH	Qya	Low Potential	20	No Monitoring
Fogarty Substation	TBD	Boundary	Tsi	High Potential	21	Full-time Monitoring
Fogarty Substation	TBD	Boundary	Qya	Low Potential	21	No Monitoring
Valley-Elsinore- Fogarty	VIG4	ОН	Qoa	High Potential	21	Full-time Monitoring
Overland Travel	VIG5	Overland Travel	Tsi	High Potential	21	Full-time Monitoring
P2	VIG5	TBD	Tsi	High Potential	21	Full-time Monitoring
Structure Work Area	VIG5	Structure Work Area	Tsi	High Potential	21	Full-time Monitoring
4750009E	VIG4	TBD	Qoa	High Potential	22	Full-time Monitoring
4765406E	VIG4	Monopole	Qya	Low Potential	22	No Monitoring
4765407E	VIG4	Monopole	Qya	Low Potential	22	No Monitoring
4765408E	VIG4	Monopole	Qya	Low Potential	22	No Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
Anchor Work Areas	VIG4	General Disturbance Area	Qoa	High Potential	22	Full-time Monitoring
Guard Sites	VIG4	Guard Site	Qya	Low Potential	22	No Monitoring
Guy Support Line	VIG4	OH	Qoa	High Potential	22	Full-time Monitoring
Overhead Fiber Optic Cable	VIG4	ОН	Qya	Low Potential	22	No Monitoring
Pole Impact Areas	VIG4	O_M	Qya	Low Potential	22	No Monitoring
Pull Sites	VIG4	Pull Site	Qoa	High Potential	22	Full-time Monitoring
Pull Sites	VIG4	Pull Site	Qya	Low Potential	22	No Monitoring
Structure Work Areas	VIG4	Structure Work Area	Qoa	High Potential	22	Full-time Monitoring
Structure Work Areas	VIG4	Structure Work Area	Qya	Low Potential	22	No Monitoring
TBD	VIG4	Trenches	Qya	Low Potential	22	No Monitoring
Underground Fiber Optic in new conduit	VIG4	UG	Qya	Low Potential	22	No Monitoring
Valley-Elsinore- Fogarty	VIG4	ОН	Qya	Low Potential	22	No Monitoring
Valley-Ivyglen	VIG4	OH	Qya	Low Potential	22	No Monitoring
4346836E	VIG5	TBD	Qya	Low Potential	22	No Monitoring
4346837E	VIG5	TBD	Qya	Low Potential	22	No Monitoring
4765409E	VIG5	Monopole	Qya	Low Potential	22	No Monitoring
4765410E	VIG5	Monopole	Qya	Low Potential	22	No Monitoring
4765411E	VIG5	Monopole	Qya	Low Potential	22	No Monitoring
4765412E	VIG5	Monopole	Tsi	High Potential	22	Full-time Monitoring
4765413E	VIG5	Monopole	Tsi	High Potential	22	Full-time Monitoring
Access Road	VIG5	Access Road	Tsi	High Potential	22	Full-time Monitoring
Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
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Anchor Work Areas	VIG5	General Disturbance Area	Qya	Low Potential	22	No Monitoring
General Disturbance Area	VIG5	General Disturbance Area	Qya	Low Potential	22	No Monitoring
Guy Anchor	VIG5	Guy Anchor	Qoa	High Potential	22	Full-time Monitoring
Guy Anchor	VIG5	Guy Anchor	Qya	Low Potential	22	No Monitoring
Guy Support Line	VIG5	OH	Qya	Low Potential	22	No Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	Tsi	High Potential	22	Full-time Monitoring
Overhead Fiber Optic Cable	VIG5	ОН	Qya	Low Potential	22	No Monitoring
Overland Travel	VIG5	Overland Travel	Tsi	High Potential	22	Full-time Monitoring
Pole Impact Areas	VIG5	O_M	Tsi	High Potential	22	Full-time Monitoring
Pole Impact Areas	VIG5	O_M	Qya	Low Potential	22	No Monitoring
Pull Sites	VIG5	Pull Site	Qya	Low Potential	22	No Monitoring
Seg5-GS1	VIG5	Guard Pole	Qya	Low Potential	22	No Monitoring
Structure Work Areas	VIG5	Structure Work Area	Tsi	High Potential	22	Full-time Monitoring
Structure Work Areas	VIG5	Structure Work Area	Qya	Low Potential	22	No Monitoring
TBD	VIG5	Monopoles	Tsi	High Potential	22	Full-time Monitoring
TBD	VIG5	Monopole	Qya	Low Potential	22	No Monitoring
Telcom Pull Sites	VIG5	Pull Site	Qya	Low Potential	22	No Monitoring
Valley-Ivyglen	VIG5	ОН	Tsi	High Potential	22	Full-time Monitoring
Valley-Ivyglen	VIG5	ОН	Qya	Low Potential	22	No Monitoring
4106905E	VIG4	Monopole	Qya	Low Potential	23	No Monitoring
4106906E	VIG4	Monopole	Qya	Low Potential	23	No Monitoring
4765394E	VIG4	Monopole	Tsi	High Potential	23	Full-time Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
4765395E	VIG4	Monopole	Qya	Low Potential	23	No Monitoring
4765396E	VIG4	Monopole	Tsi	High Potential	23	Full-time Monitoring
4765397E	VIG4	Monopole	Tsi	High Potential	23	Full-time Monitoring
4765398E	VIG4	Monopole	Tsi	High Potential	23	Full-time Monitoring
4765399E	VIG4	Monopole	Tsi	High Potential	23	Full-time Monitoring
4765400E	VIG4	Monopole	Tsi	High Potential	23	Full-time Monitoring
4765401E	VIG4	Monopole	Tsi	High Potential	23	Full-time Monitoring
4765402E	VIG4	Monopole	Qya	Low Potential	23	No Monitoring
4765403E	VIG4	Monopole	Qya	Low Potential	23	No Monitoring
4765404E	VIG4	Monopole	Qya	Low Potential	23	No Monitoring
4765405E	VIG4	Monopole	Qya	Low Potential	23	No Monitoring
Overhead Fiber Optic Cable	VIG4	ОН	Tsi	High Potential	23	Full-time Monitoring
Overhead Fiber Optic Cable	VIG4	ОН	Qya	Low Potential	23	No Monitoring
Pole Impact Areas	VIG4	O_M	Tsi	High Potential	23	Full-time Monitoring
Pole Impact Areas	VIG4	O_M	Qya	Low Potential	23	No Monitoring
Pull Sites	VIG4	Pull Site	Tsi	High Potential	23	Full-time Monitoring
Pull Sites	VIG4	Pull Site	Qya	Low Potential	23	No Monitoring
Structure Work Areas	VIG4	Structure Work Area	Tsi	High Potential	23	Full-time Monitoring
Structure Work Areas	VIG4	Structure Work Area	Qya	Low Potential	23	No Monitoring
TBD	VIG4	Trenches	Qya	Low Potential	23	No Monitoring
Telcom Pull Sites	VIG4	Pull Site	Qya	Low Potential	23	No Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
Underground Fiber Optic in new conduit	VIG4	UG	Qya	Low Potential	23	No Monitoring
Valley-Elsinore- Fogarty	VIG4	ОН	Qoa	High Potential	23	Full-time Monitoring
Valley-Elsinore- Fogarty	VIG4	ОН	Qya	Low Potential	23	No Monitoring
Valley-Ivyglen	VIG4	OH	Tsi	High Potential	23	Full-time Monitoring
Valley-Ivyglen	VIG4	OH	Qya	Low Potential	23	No Monitoring
4765390E	VIG4	Monopole	Qya	Low Potential	24	No Monitoring
4765391E	VIG4	Monopole	Qya	Low Potential	24	No Monitoring
4765392E	VIG4	Monopole	Tsi	High Potential	24	Full-time Monitoring
4765393E	VIG4	Monopole	Tsi	High Potential	24	Full-time Monitoring
4765394E	VIG4	Monopole	Tsi	High Potential	24	Full-time Monitoring
4765395E	VIG4	Monopole	Qya	Low Potential	24	No Monitoring
4765396E	VIG4	Monopole	Tsi	High Potential	24	Full-time Monitoring
4765397E	VIG4	Monopole	Tsi	High Potential	24	Full-time Monitoring
4765398E	VIG4	Monopole	Tsi	High Potential	24	Full-time Monitoring
4765399E	VIG4	Monopole	Tsi	High Potential	24	Full-time Monitoring
Anchor Work Area	VIG4	General Disturbance Area	Tsi	High Potential	24	Full-time Monitoring
Anchor Work Areas	VIG4	General Disturbance Area	Qya	Low Potential	24	No Monitoring
Guy Anchor	VIG4	Guy Anchor	Tsi	High Potential	24	Full-time Monitoring
Guy Anchor	VIG4	Guy Anchor	Qya	Low Potential	24	No Monitoring
Guy Support Line	VIG4	OH	Tsi	High Potential	24	Full-time Monitoring
Guy Support Line	VIG4	ОН	Qya	Low Potential	24	No Monitoring
Overhead Fiber Optic Cable	VIG4	ОН	Tsi	High Potential	24	Full-time Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
Overhead Fiber Optic Cable	VIG4	ОН	Qya	Low Potential	24	No Monitoring
Pole Impact Areas	VIG4	O_M	Tsi	High Potential	24	Full-time Monitoring
Pole Impact Areas	VIG4	O_M	Qya	Low Potential	24	No Monitoring
Pull Sites	VIG4	Pull Site	Tsi	High Potential	24	Full-time Monitoring
Structure Work Areas	VIG4	Structure Work Area	Tsi	High Potential	24	Full-time Monitoring
Structure Work Areas	VIG4	Structure Work Area	Qya	Low Potential	24	No Monitoring
Valley-Elsinore- Fogarty	VIG4	ОН	Qyf	Low Potential	24	No Monitoring
Valley-Elsinore- Fogarty	VIG4	ОН	Qya	Low Potential	24	No Monitoring
Valley-Ivyglen	VIG4	OH	Tsi	High Potential	24	Full-time Monitoring
Valley-Ivyglen	VIG4	ОН	Qya	Low Potential	24	No Monitoring
Access Road	VIG4	Ground Disturbance Area	Tsi	High Potential	25	Full-time Monitoring
Catfish 74 Yard	Unknown	Yard	Qya	Low Potential	25	No Monitoring
4765379E	VIG4	Monopole	Tsi	High Potential	25	Full-time Monitoring
4765380E	VIG4	Monopole	Tsi	High Potential	25	Full-time Monitoring
4765381E	VIG4	Monopole	Tsi	High Potential	25	Full-time Monitoring
4765382E	VIG4	Monopole	Tsi	High Potential	25	Full-time Monitoring
4765383E	VIG4	Monopole	Tsi	High Potential	25	Full-time Monitoring
4765384E	VIG4	Monopole	Tsi	High Potential	25	Full-time Monitoring
4765385E	VIG4	Monopole	Tsi	High Potential	25	Full-time Monitoring
4765386E	VIG4	Monopole	Tsi	High Potential	25	Full-time Monitoring
4765387E	VIG4	Monopole	Tsi	High Potential	25	Full-time Monitoring
4765388E	VIG4	Monopole	Tsi	High Potential	25	Full-time Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
4765389E	VIG4	Monopole	Tsi	High Potential	25	Full-time Monitoring
Access Roads	VIG4	Access Road	Tsi	High Potential	25	Full-time Monitoring
Anchor Work Areas	VIG4	General Disturbance Area	Tsi	High Potential	25	Full-time Monitoring
Guy Anchors	VIG4	Guy Anchor	Tsi	High Potential	25	Full-time Monitoring
Guy Support Line	VIG4	OH	Tsi	High Potential	25	Full-time Monitoring
Overhead Fiber Optic Cable	VIG4	ОН	Tsi	High Potential	25	Full-time Monitoring
Overhead Fiber Optic Cable	VIG4	ОН	Qya	Low Potential	25	No Monitoring
P2	VIG4	TBD	Tsi	High Potential	25	Full-time Monitoring
Pole Impact Areas	VIG4	O_M	Tsi	High Potential	25	Full-time Monitoring
Structure Work Areas	VIG4	Structure Work Area	Tsi	High Potential	25	Full-time Monitoring
Structure Work Areas	VIG4	Structure Work Area	Qya	Low Potential	25	No Monitoring
Valley-Elsinore- Fogarty	VIG4	ОН	Qya	Low Potential	25	No Monitoring
Valley-Ivyglen	VIG4	OH	Tsi	High Potential	25	Full-time Monitoring
Valley-Ivyglen	VIG4	OH	Qya	Low Potential	25	No Monitoring
Access Roads	VIG4	Ground Disturbance Area	Tsi	High Potential	26	Full-time Monitoring
Catfish 74 Yard	Unknown	Yard	Qya	Low Potential	26	No Monitoring
Tree Trimming Area	Multiple	Vegetation Removal	Tsi	High Potential	26	Full-time Monitoring
Tree Trimming Area	Multiple	Vegetation Removal	Qya	Low Potential	26	No Monitoring
2358101E	VIG4	TBD	Qya	Low Potential	26	No Monitoring
4765363E	VIG4	Monopole	Qya	Low Potential	26	No Monitoring
4765364E	VIG4	Monopole	Qya	Low Potential	26	No Monitoring
4765365E	VIG4	Monopole	Qya	Low Potential	26	No Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
4765366E	VIG4	Monopole	Qya	Low Potential	26	No Monitoring
4765367E	VIG4	Monopole	Qya	Low Potential	26	No Monitoring
4765368E	VIG4	Monopole	Qya	Low Potential	26	No Monitoring
4765369E	VIG4	Monopole	Qya	Low Potential	26	No Monitoring
4765372E	VIG4	Hybrid	Qya	Low Potential	26	No Monitoring
4765375E	VIG4	Monopole	Tsi	High Potential	26	Full-time Monitoring
4765376E	VIG4	Monopole	Tsi	High Potential	26	Full-time Monitoring
4765377E	VIG4	Monopole	Tsi	High Potential	26	Full-time Monitoring
4765378E	VIG4	Monopole	Tsi	High Potential	26	Full-time Monitoring
4765379E	VIG4	Monopole	Tsi	High Potential	26	Full-time Monitoring
4765380E	VIG4	Monopole	Tsi	High Potential	26	Full-time Monitoring
Access Roads	VIG4	Access Road	Qya	Low Potential	26	No Monitoring
Anchor Work Areas	VIG4	General Disturbance Area	Tsi	High Potential	26	Full-time Monitoring
Baker St	VIG4	Overland Travel	Tsi	High Potential	26	Full-time Monitoring
General Disturbance Areas	VIG4	General Disturbance Area	Qya	Low Potential	26	No Monitoring
Guard Sites	VIG4	Guard Site	Tsi	High Potential	26	Full-time Monitoring
Guard Sites	VIG4	Guard Site	Qya	Low Potential	26	No Monitoring
Guy Anchors	VIG4	Guy Anchor	Tsi	High Potential	26	Full-time Monitoring
Guy Anchors	VIG4	Guy Anchor	Qya	Low Potential	26	No Monitoring
Guy Support Lines	VIG4	ОН	Tsi	High Potential	26	Full-time Monitoring
Guy Support Lines	VIG4	ОН	Qya	Low Potential	26	No Monitoring
Overhead Fiber Optic Cable	VIG4	ОН	Tsi	High Potential	26	Full-time Monitoring
Overhead Fiber Optic Cable	VIG4	ОН	Qya	Low Potential	26	No Monitoring
Overland Travel	VIG4	Overland Travel	Tsi	High Potential	26	Full-time Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations	
P1	VIG4	TBD	Tsi	High Potential	26	Full-time Monitoring	
P2	VIG4	TBD	Tsi	High Potential	26	Full-time Monitoring	
P2	VIG4	TBD	Qya	Low Potential	26	No Monitoring	
Pole Impact Areas	VIG4	O_M	Tsi	High Potential	26	Full-time Monitoring	
Pole Impact Areas	VIG4	O_M	Qya	Low Potential	26	No Monitoring	
Pull Sites	VIG4	Pull Site	Qya	Low Potential	26	No Monitoring	
Seg4-GS10	VIG4	Guard Pole	Qya	Low Potential	26	No Monitoring	
Seg4-GS7	VIG4	Guard Pole	Qya	Low Potential	26	No Monitoring	
Seg4-GS8	VIG4	Guard Pole	Tsi	High Potential	26	Full-time Monitoring	
Seg4-GS9	VIG4	Guard Pole	Qya	Low Potential	26	No Monitoring	
Structure Work Areas	VIG4	Structure Work Area	Tsi	High Potential	26	Full-time Monitoring	
Structure Work Areas	VIG4	Structure Work Area	Qya	Low Potential	26	No Monitoring	
UNK_DIST	VIG4	TBD	Qya	Low Potential	26	No Monitoring	
Valley-Elsinore- Fogarty	VIG4	ОН	Qyf	Low Potential	26	No Monitoring	
Valley-Elsinore- Fogarty	VIG4	ОН	Qya	Low Potential	26	No Monitoring	
Valley-Ivyglen	VIG4	OH	Tsi	High Potential	26	Full-time Monitoring	
Valley-Ivyglen	VIG4	OH	Qya	Low Potential	26	No Monitoring	
Tree Trimming Area	Multiple	Vegetation Removal	Qya	Low Potential	27	No Monitoring	
2354896E	VIG4	TBD	Qya	Low Potential	27	No Monitoring	
4765353E	VIG4	Monopole	Qya	Low Potential	27	No Monitoring	
4765354E	VIG4	Monopole	Qya	Low Potential	27	No Monitoring	
4765355E	VIG4	Monopole	Qya	Low Potential	27	No Monitoring	
4765356E	VIG4	Monopole	Qya	Low Potential	27	No Monitoring	

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
4765357E	VIG4	Monopole	Qya	Low Potential	27	No Monitoring
4765358E	VIG4	Monopole	Qya	Low Potential	27	No Monitoring
4765359E	VIG4	Monopole	Qya	Low Potential	27	No Monitoring
4765360E	VIG4	Monopole	Qya	Low Potential	27	No Monitoring
4765361E	VIG4	Monopole	Qya	Low Potential	27	No Monitoring
4765363E	VIG4	Monopole	Qya	Low Potential	27	No Monitoring
4765364E	VIG4	Monopole	Qya	Low Potential	27	No Monitoring
4765368E	VIG4	Monopole	Qya	Low Potential	27	No Monitoring
4765369E	VIG4	Monopole	Qya	Low Potential	27	No Monitoring
4765370E	VIG4	Monopole	Qya	Low Potential	27	No Monitoring
Access Roads	VIG4	Access Road	Qya	Low Potential	27	No Monitoring
Anchor Work Areas	VIG4	General Disturbance Area	Qya	Low Potential	27	No Monitoring
General Disturbance Areas	VIG4	General Disturbance Area	Qya	Low Potential	27	No Monitoring
Guard Sites	VIG4	Guard Site	Qya	Low Potential	27	No Monitoring
Guy Anchors	VIG4	Guy Anchor	Qya	Low Potential	27	No Monitoring
Guy Support Lines	VIG4	ОН	Qya	Low Potential	27	No Monitoring
Overhead Fiber Optic Cable	VIG4	ОН	Qya	Low Potential	27	No Monitoring
Pole Impact Areas	VIG4	O_M	Qya	Low Potential	27	No Monitoring
Pull Sites	VIG4	Pull Site	Qya	Low Potential	27	No Monitoring
Seg4-GS10	VIG4	Guard Pole	Qya	Low Potential	27	No Monitoring
Seg4-GS7	VIG4	Guard Pole	Qya	Low Potential	27	No Monitoring
Structure Work Areas	VIG4	Structure Work Area	Qya	Low Potential	27	No Monitoring
Telcom Pull Site	VIG4	Pull Site	Qya	Low Potential	27	No Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
Valley-Elsinore- Fogarty	VIG4	ОН	Qyf	Low Potential	27	No Monitoring
Valley-Ivyglen	VIG4	OH	Qya	Low Potential	27	No Monitoring
Chaney Yard- Alternative	Unknown	Yard	Qya	Low Potential	28	No Monitoring
4106805E	VIG4	Monopole	Qya	Low Potential	28	No Monitoring
4165749E	VIG4	Monopole	Qya	Low Potential	28	No Monitoring
4269236E	VIG4	TBD	Qya	Low Potential	28	No Monitoring
4765338E	VIG4	Monopole	Qya	Low Potential	28	No Monitoring
4765339E	VIG4	Monopole	Qya	Low Potential	28	No Monitoring
4765340E	VIG4	Monopole	Qya	Low Potential	28	No Monitoring
4765341E	VIG4	Monopole	Qya	Low Potential	28	No Monitoring
4765342E	VIG4	Monopole	Qya	Low Potential	28	No Monitoring
4765343E	VIG4	Monopole	Qya	Low Potential	28	No Monitoring
4765344E	VIG4	Monopole	Qya	Low Potential	28	No Monitoring
4765346E	VIG4	Monopole	Qya	Low Potential	28	No Monitoring
4765347E	VIG4	Monopole	Qya	Low Potential	28	No Monitoring
4765348E	VIG4	Monopole	Qya	Low Potential	28	No Monitoring
4765349E	VIG4	Monopole	Qya	Low Potential	28	No Monitoring
4765350E	VIG4	Monopole	Qya	Low Potential	28	No Monitoring
4765351E	VIG4	Monopole	Qya	Low Potential	28	No Monitoring
4765352E	VIG4	Monopole	Qya	Low Potential	28	No Monitoring
Guard Sites	VIG4	Guard Site	Qya	Low Potential	28	No Monitoring
Overhead Fiber Optic Cables	VIG4	ОН	Qya	Low Potential	28	No Monitoring
Pole Impact Areas	VIG4	O_M	Qya	Low Potential	28	No Monitoring
Pull Sites	VIG4	Pull Site	Qya	Low Potential	28	No Monitoring

Name	Segment	Structure	Geology (Morton and Miller, 2006)	Paleontological Potential (SVP, 2010)	Appendix A Map Page No.	Mitigation Requirements During Qualifying Excavations
Seg4-GS4	VIG4	Guard Pole	Qya	Low Potential	28	No Monitoring
Seg4-GS5	VIG4	Guard Pole	Qya	Low Potential	28	No Monitoring
Seg4-GS6	VIG4	Guard Pole	Qya	Low Potential	28	No Monitoring
Structure Work Areas	VIG4	Structure Work Area	Qya	Low Potential	28	No Monitoring
TBD	VIG4	Trenches	Qya	Low Potential	28	No Monitoring
TBD	VIG4	Monopole	Qya	Low Potential	28	No Monitoring
Telcom Pull Sites	VIG4	Pull Site	Qya	Low Potential	28	No Monitoring
Valley-Elsinore- Fogarty	VIG4	ОН	Qya	Low Potential	28	No Monitoring
Valley-Ivyglen	VIG4	OH	Qya	Low Potential	28	No Monitoring
4269406E	VIG4	Monopole	Qya	Low Potential	29	No Monitoring
4765353E	VIG4	Monopole	Qya	Low Potential	29	No Monitoring
Guard Sites	VIG4	Guard Site	Qya	Low Potential	29	No Monitoring
Overhead Fiber Optic Cable	VIG4	ОН	Qya	Low Potential	29	No Monitoring
Pole Impact Areas	VIG4	O_M	Qya	Low Potential	29	No Monitoring
Pull Sites	VIG4	Pull Site	Qya	Low Potential	29	No Monitoring
Structure Work Areas	VIG4	Structure Work Area	Qya	Low Potential	29	No Monitoring
TBD	VIG4	Trench	Qya	Low Potential	29	No Monitoring
TBD	VIG4	Monopole	Qya	Low Potential	29	No Monitoring
Valley-Elsinore- Fogarty	VIG4	ОН	Qyf	Low Potential	29	No Monitoring
Valley-Elsinore- Fogarty	VIG4	ОН	Qya	Low Potential	29	No Monitoring
Valley-Ivyglen	VIG4	ОН	Qya	Low Potential	29	No Monitoring