Table ED01 – Q2(a): Project Impact Summary

PROJECT COMPONENTS	CALC. METHOD	LENGTH (miles)	TEMPORARY IMPACTS (acres)	PERMANENT IMPACTS (acres)
Substations				
Artesian [1]	GIS	N/A	0.47	4.70
Bernardo	GIS	N/A	2.09	0
Rancho Carmel	GIS	N/A	1.31	0
Substation Getaways				
230kV Connection at Artesian [2]	GIS	N/A	0.13	0.17
Distribution Line (Artesian) [3]	GIS	~0.16	0	0
69kV Underground Getaways (Artesian, Bernardo, Rancho Carmel) [4]	GIS	~0.84	1.89	0
Pulling Sites (underground) [5]	GIS	N/A	0.3	0
New Underground Vaults (69kV) [6]	GIS	N/A	0	0.0
69kV Reconductoring Components				
Pole Work Areas (installation, removal, top of pole) [7]	GIS	~2.2	4.02	0.01
Guard Structures [8]	Calculated	N/A	0.03	0
Stringing Sites (overhead) [9]	GIS	N/A	0.74	0
Temporary Staging and Miscellaneous Work Areas	GIS	N/A	1.01	0
Staging and Storage Yards				
Carmel Valley Road [10]	GIS	N/A	5	0
Northeast Annex	GIS	N/A	3.77	0
Kearny	GIS	N/A	18.62	0
Roads and Project Access				
Existing SDG&E Unpaved Access Roads [11]	Calculated	~2.52	3.66	0
Existing SDG&E Paved Legal Access [12]	N/A	~1.48	N/A	N/A
Foot Paths [13]	Calculated	0.07	0.1	0
Overland Travel [14]	Calculated	0.12	0.17	0
New Substation Perimeter Roads	GIS	~0.2	N/A	0.37
Widened Substation Access Road [15]	GIS	~0.08	N/A	0.23
Artesian Detention Basin	GIS	N/A	N/A	0.69
Distribution Underground (new installation near P7 & P8) [16]	GIS	~0.07	0.18	0
PROJECT TOTALS [17]	GIS	N/A	**41.7**	**6.18**

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Notes:

Acreages listed for individual project components do not account for overlapping work areas.

Areas that would not be restored or returned to pre-construction condition (such as Artesian Substation) are listed as permanent impacts. These areas would subject to disturbance during construction as well.

[1] Temporary impacts included are for the perimeter landscaping along the north and east side of the substation footprint. Permanent impacts are for the Final Substation Footprint, which does not include perimeter access roads or the detention basin which are listed separately.

[2] Standard temporary work areas used. Permanent impacts are based on preliminary design for permanent O&M work pads at each of the new 230kV drop pole structures. The permanent impact areas account for overlap with adjacent permanent features including the widened substation access road, detention basin, and substation perimeter roads.

[3] The distribution line Artesian Substation getaway will require only installation of new cable within existing conduit, and as such dedicated work area for trenching is not required.

[4] Impacts listed are associated with trenching and vault installation for new underground getaways. Work area was assumed to be 25 feet along the proposed trench alignments.

[5] Pulling site impact areas calculated from GIS and only underground pulling sites were included within this line item.

[6] Temporary impacts associated with vault installation were included under the line item for underground getaway construction. Permanent impacts (surface footprint of the manhole covers for the vaults) are less than 0.0 acre (approximately 35 square feet total, or 7 square feet per manhole cover).

[7] Impact area calculated using with GIS using standard work areas (refer to Attachment ED01_Q2(b) - GIS data).

[8] Impact area was calculated, using the number of anticipated guard structure sites (23), and the typical impact area of 72 square feet.

[9] Stringing site impact areas calculated from GIS and only overhead stringing sites were included within this line item.

[10] SDG&E anticipates using approximately 5 acres at the Carmel Valley Road staging yard sites (refer to Attachment ED01_Q2(b) – GIS Data). The underlying parcel is approximately 25 acres, and SDG&E will use approximately 5 acres within the bounds of the larger parcel. The property owner could not guarantee which portion of the parcel may or may not be available at this time of construction (refer to response to ED

[11] Road area was calculated from the approximate distance (2.52 miles – refer to Attachment ED01_Q2(b) - GIS Data) and an average road width of 12 feet. Because these access roads are existing, they are not considered a permanent impact in this table.

[12] Data is maintained as line data and accurate polygon data does not exist. These roads and other paved features can vary drastically is size and shape, so area was not calculated.

[13] Impact area was calculated using the approximate length (0.07 mile) and an average width of 12 feet.

[14] Impact area was calculated using the approximate length (0.12 mile) and an average width of 12 feet.

[15] Impact area was generated using GIS. Note that existing limits of the existing Artesian Substation access road are not available, so the acreage listed accounts for the area of the proposed expanded road area.

[16] Impact area was generated using GIS. These impacts are for a small segment of new trenching located between structures P7 and P8.

[17] Impact area totals were generated using a combination of GIS (see Attachment ED01_Q2(b)), and addition of the line items that were calculated freehand (certain roads, guard structures, etc.) as outline in the table above. The total temporary impacts numbers calculated in GIS account for all overlap in individual work areas. Therefore, the sum of the impacts for each Project component will be greater than the total impacts listed here, because of the multiple overlapping impact areas.