

Appendix D

Greenhouse Gas Worksheets and Calculations



GHG-1 Assumptions

Cadiz Pipeline - Pump Stations

defaults are in blue

PROJECT CHARACTERISTICS

Location	Cadiz (Mojave Desert)	
Climate Zone	Rural	
Land Use Setting		1/1/2026
Start of Construction		9/30/2026 *Assumed 9 month construction per pump station
End of Construction		
Utility Company	SCE	
CO2 intensity	<i>default</i>	

LAND USE

Land Use	Land Use Subtype	Unit Amt	Size Metric	Lot Ac	SF
Light Industry	General Light Industry	43.56	1000 sf	1.000	43560

CONSTRUCTION

Construction Phasing

Construction Phase	Start Date	End Date	Days/wk	Total Days
Site Preparation	1/1/2026	1/28/2026	5	20
Grading	1/29/2026	2/25/2026	5	20
Building Construction	2/26/2026	8/5/2026	5	115
Paving	8/6/2026	9/2/2026	5	20
Architectural Coating	9/3/2026	9/30/2026	5	20
				195

Offroad Equipment

Equipment Type	Unit Amt	Hours/Day	HP	LF	Construction Phase
Tractor/Loader/Backhoe	1	8	<i>default</i>	<i>default</i>	site prep, grading, building const
Excavator	1	8	<i>default</i>	<i>default</i>	Building const
Paving Equipment	1	8	<i>default</i>	<i>default</i>	paving
Plate compactor	1	8	<i>default</i>	<i>default</i>	paving
generator	1	8	<i>default</i>	<i>default</i>	grading
welder	1	8	<i>default</i>	<i>default</i>	building const
air compressor	1	8	<i>default</i>	<i>default</i>	arch coating
Crane	1	8	<i>default</i>	<i>default</i>	building const
Grader	1	8	<i>default</i>	<i>default</i>	grading
Paver	1	8	<i>default</i>	<i>default</i>	<i>default</i>
concrete saw	1	8	<i>default</i>	<i>default</i>	building const
Total	11				

Dust from Material Movement

Phase	Material Import (cy)	Material Export (cy)	Size Metric	Acres Graded
Site Prep	0	0 cy		<i>default</i>
Grading	0	3300 cy		<i>default</i>

Grading/Site Prep

Size Metric	Unit Amt
Haul Truck Capacity (CV)	16
Total Haul Amount	3300
Grading Haul Days	20
Daily Grading Haul Trips (In/Out)	21

*CalEEMod Default

Trips & VMT

Phase Name	# of worker trips/day	# vendor trips/day	# haul trips/day	Trip length worker		Trip length haul		Vehicle Class Worker	Vehicle Class Vendor	Vehicle Class Hauling
				(mi)	trip length vendor (mi)	(mi)	(mi)			
Site prep	20	10	2	<i>default</i>	<i>default</i>	<i>default</i>		LDA,LDT1,LDT2	HHDT,MHDT	HHDT
Grading	20	10	24	<i>default</i>	<i>default</i>	<i>default</i>		LDA,LDT1,LDT2	HHDT,MHDT	HHDT
Building Construction	20	10	2	<i>default</i>	<i>default</i>	<i>default</i>		LDA,LDT1,LDT2	HHDT,MHDT	HHDT
Paving	20	10	2	<i>default</i>	<i>default</i>	<i>default</i>		LDA,LDT1,LDT2	HHDT,MHDT	HHDT

*10 workers *5 vendor trucks *Assume two one-way trips for drop off/demob of off-road equipment

Architectural Coating

Phase	VOC for Parking Lot Paint	Parking Area
Arch Coating	<i>default</i>	<i>default</i>

MITIGATION MEASURES

Water Exposed Area

3x Per Day

Cadiz Pipeline - Pipeline Inspection

defaults are in blue

PROJECT CHARACTERISTICS

Location	Cadiz (Mojave Desert)
Climate Zone	
Land Use Setting	Rural
Start of Construction	1/1/2026 *Modelling purposes
Operational Year	N/A
Utility Company	SCE
CO2 intensity	default

LAND USE

Land Use	Land Use Subtype	Unit Amt	Size Metric	Lot Ac	SF	Population
Parking	Other Non-Asphalt Surfaces	1457.28	1000 sf	33.455	1457280	0

CONSTRUCTION

Construction Phasing

Construction Phase	Start Date	End Date	Days/wk	Total Days	
Trenching	1/1/2026	6/30/2026	5	129	*6 months for pipeline inspection
Pipeline Rehabilitation (Building Construction)	7/1/2026	10/31/2026	5	88	*4 months of pipeline rehabilitation
				129	

Offroad Equipment

Equipment Type	Unit Amt	Hours/Day	HP	LF	Phase
Grader	1	8	default	default	Trenching
Excavator	1	8	default	default	Trenching
Plate compactor	1	8	default	default	Trenching
Mobile Crane	1	8	default	default	Pipeline Rehabilitation (Building Construction)
Concrete Saw	1	8	default	default	Trenching
Welder	1	8	default	default	Pipeline Rehabilitation (Building Construction)
Total	6				

Dust from Material Movement

Phase	Material Import (cy)	Material Export (cy)	Size Metric	Acres Graded	
Trenching	0	323,840 cy		default	*Dust movement (no hauling)

Trenching

Size Metric	Unit Amt
Width (ft)	6
Depth (ft)	6
Length per day (mi)	3
Total Length (mi)	46
Length (ft)	242880
Total (cubic feet)	8743680
Total (cubic yards)	323840.00

Trips & VMT

Phase Name	# of worker trips/day	# vendor trips/day	# haul trips (total per phase)	Trip length worker (mi)	trip length vendor (mi)	Trip length haul (mi)	Vehicle Class Worker	Vehicle Class Vendor	Vehicle Class Hauling
Trenching	20	10	2.00	default	default	default	LDA,LDT1,LDT2	HHDT,MHDT	HHDT
Pipeline Rehabilitation (Building Construction)	20	10	2.00	default	default	default	LDA,LDT1,LDT2	HHDT,MHDT	HHDT
	*10 workers	*5 vendor trucks							*Assume two one-way trips for drop off/demob of off-road equipment

Architectural Coating

Phase	VOC for Parking Lot Paint	Parking Area
Arch Coating	default	default

MITIGATION MEASURES

Water Exposed Area
3x Per Day

Cadiz Pipeline - ARAVBO Valves

defaults are in blue

PROJECT CHARACTERISTICS	
Location	Cadiz (Mojave Desert)
Climate Zone	
Land Use Setting	Rural
Start of Construction	1/1/2026
Operational Year	1/7/2026
Utility Company	SCE
CO2 intensity	<i>default</i>

LAND USE						
Land Use	Land Use Subtype	Unit Amt	Size Metric	Lot Ac	SF	Population
Parking	Other Asphalt Surfaces		0.05 1000 sf	0.001	50	0 *model for 1 valve
Valve Unit	Phase 1	Phase 2				
# AR/AV	50	100				
# BO	50	100				

CONSTRUCTION				
Construction Phasing				
Construction Phase	Start Date	End Date	Days/wk	Total Days
Trenching	1/1/2026	1/2/2026	5	2
Building Construction	1/3/2026	1/7/2026	5	3
			5	

Offroad Equipment					
Equipment Type	Unit Amt	Hours/Day	HP	LF	Phase
Excavator	1	8	<i>default</i>	<i>default</i>	Trenching
Grader	1	8	<i>default</i>	<i>default</i>	Trenching
Plate compactor	1	8	<i>default</i>	<i>default</i>	Trenching
Concrete Saws	1	8	<i>default</i>	<i>default</i>	Building Construction
Generators	1	8	<i>default</i>	<i>default</i>	Building Construction
Welders	1	8	<i>default</i>	<i>default</i>	Building Construction
Total	6				

Dust from Material Movement				
Phase	Material Import (cy)	Material Export (cy)	Size Metric	Acres Graded
Trenching	0	44.44 cy	default	*Contained onsite and used for infill

Trenching	
Size Metric	Unit Amt
Width (ft)	10
Depth (ft)	6
Length per site (ft)	20
Total (cubic feet)	1200
Total (cubic yards)	44.44

Building Construction	
Size Metric	Unit Amt
Valve area (ft2)	50
Elevation (ft)	4
Total number of AR/AV	
Valves	100
Total number of BO	200

Trips & VMT									
Phase Name	# of worker trips/day	# vendor trips/day	# haul trips/day	Trip length worker (mi)	trip length vendor (mi)	Trip length haul (mi)	Vehicle Class Worker	Vehicle Class Vendor	Vehicle Class Hauling
Trenching	10	10	2	<i>default</i>	<i>default</i>	25	LDA,LDT1,LDT2	HHDT,MHDT	HHDT
Building Construction	10	10	2	<i>default</i>	<i>default</i>	25	LDA,LDT1,LDT2	HHDT,MHDT	HHDT
	*5 workers	*5 vendor trucks		*Assume two one-way trips for drop off/demob of off-road equipment					

Architectural Coating		
Phase	VOC for Parking Lot Paint	Parking Area
Arch Coating	<i>default</i>	<i>default</i>

MITIGATION MEASURES	
Water Exposed Area	
3x Per Day	

Cadiz Pipeline - Cathodic Protection Repair

defaults are in blue

PROJECT CHARACTERISTICS

Location	Cadiz (Mojave Desert)
Climate Zone	
Land Use Setting	Rural
Start of Construction	7/1/2026
End of Construction	10/31/2026
Utility Company	SCE
CO2 intensity	<i>default</i>

LAND USE

Land Use	Land Use Subtype	Unit Amt	Size Metric	Lot Ac	SF	Population
Parking	Other Asphalt Surfaces	2.5	1000 sf	0.200	2500	0

Notes: Based on 1 50ftx50ft plant footprint

CONSTRUCTION

Construction Phasing

Construction Phase	Start Date	End Date	Days/wk	Total Days
Building Construction	7/1/2026	10/31/2026	5	88

*Assumed construction occurring concurrently with pipeline rehabilitation

88

Offroad Equipment

Equipment Type	Unit Amt	Hours/Day	HP	LF	Construction Phase
Excavator	1 <i>default</i>		<i>default</i>	<i>default</i>	site prep & grading
Grader	1 <i>default</i>		<i>default</i>	<i>default</i>	grading
Plate compactor	1 <i>default</i>		<i>default</i>	<i>default</i>	site prep and grading and building const
Welder	1 <i>default</i>		<i>default</i>	<i>default</i>	grading
Total	4				

Trips & VMT

truck hauling capacity 14 cy

Phase Name	# of worker trips/day	# vendor trips/day	# haul trips/day	Trip length worker (mi)	Trip length vendor (mi)	Trip length haul (mi)	Vehicle Class Worker	Vehicle Class Vendor	Vehicle Class Hauling
Building Construction	10	10	2	<i>default</i>	<i>default</i>	25	LDA,LDT1,LDT2	HHDT,MHDT	HHDT

*5 workers *5 vendor trucks *Assume two one-way trips for drop off/demob of off-road equipment

Architectural Coating

Phase	VOC for Parking Lot Paint	Parking Area
Arch Coating	<i>default</i>	<i>default</i>

GHG-2 Construction GHG Calculations and Modeling

Cadiz Northern Pipeline**GHG Construction Analysis - Summary Construction****Unmitigated**

Regional Maximums Source	MTCO2 Mton/year
Pipeline Inspection & Rehabilitation	179
AR/AV & BO Installation	397
Cathodic Protection Repair	61
Pump Station (7 Stations)	1222
Northern Pipeline Annual Construction GHG Emissions	1858
Northern Pipeline Annual Construction GHG Emissions (50-years amortized)	37
FIER Construction GHG Emissions from the Final EIR (see EIR Table 4.3-5)	448
Northern Pipeline + Final EIR Construction GHG Emissions	485

Cadiz Northern Pipeline

**Air Quality Construction Analysis - Facility Modifications
Unmitigated**

Regional Maximum Source	ROG	NOX	CO	SO2	Exhaust	Fugitive	Total PM10	Exhaust	Fugitive	Total
					PM10	PM10		PM2.5	PM2.5	PM2.5
lb/day										
3.1 Site Preparation (2026) - Unmitigated	0.301	2.651	5.015	0.009	0.08	0.38	0.46	0.07	0.09	0.17
3.3 Grading (2026) - Unmitigated	0.596	6.231	7.313	0.022	0.23	0.90	1.13	0.21	0.21	0.42
3.5 Building Construction (2026) - Unmitigated	1.121	9.479	11.704	0.024	0.31	0.38	0.69	0.29	0.09	0.38
3.7 Paving (2026) - Unmitigated	0.361	3.236	5.690	0.009	0.13	0.38	0.51	0.12	0.09	0.21
3.9 Architectural Coating (2026) - Unmitigated	10.369	1.690	3.219	0.006	0.04	0.38	0.42	0.04	0.09	0.13
Northern Pipeline Facility Modifications Daily Maximum Emissions	10.37	9.48	11.70	0.02	0.31	0.90	1.13	0.29	0.21	0.42
AVAQMD & MDAQMD Threshold	137.0	137.0	548.0	137.0	N/A	N/A	82.0	N/A	N/A	65.0
Exceed Threshold (Y/N)?	No	No	No	No	N/A	N/A	No	N/A	N/A	No

GHG per Pump Station	Onsite	Offsite
3.1 Site Preparation (2026) - Unmitigated	5.286338	6.619517
3.3 Grading (2026) - Unmitigated	8.128324	19.953933
3.5 Building Construction (2026) - Unmitigated	103.5038	38.062222
3.7 Paving (2026) - Unmitigated	5.586403	6.619517
3.9 Architectural Coating (2026) - Unmitigated	1.620387	8.2399038
Total	203.6203455	
Total GHG for 7 Pump Stations	1221.722073	

Cadiz Northern Pipeline

Air Quality Construction Analysis - Cathodic REPAIR

Unmitigated

Regional Maximum Source	ROG	NOX	CO	SO2	Exhaust PM10	Fugitive PM10	Total PM10	Exhaust PM2.5	Fugitive PM2.5	Total PM2.5
3.1 Building Construction (2026) - Unmitigated	0.66	5.37	7.23	0.01	0.22	0.25	0.47	0.20	0.06	0.26
Northern Pipeline Cathodic Repair Daily Maximum Emissions	0.66	5.37	7.23	0.01	0.22	0.25	0.47	0.20	0.06	0.26
AVAQMD & MDAQMD Threshold	137.0	137.0	548.0	137.0	N/A	N/A	82.0	N/A	N/A	65.0
Exceed Threshold (Y/N)?	No	No	No	No	N/A	N/A	No	N/A	N/A	No

GHG Cathodic repair	Onsite	Offsite
3.1 Building Construction (2026) - Unmitigated	36.736518	23.854126
Total GHG Cathodic repair	60.59064431	

Cadiz Northern Pipeline

**Air Quality Construction Analysis - Pipeline
Unmitigated**

Regional Maximum Source	ROG	NOX	CO	SO2	Exhaust PM10	Fugitive PM10	Total PM10	Exhaust PM2.5	Fugitive PM2.5	Total PM2.5
3.1 Building Construction (2026) - Unmitigated	0.65	5.34	6.42	0.02	0.18	0.38	0.57	0.17	0.09	0.26
3.3 Pipeline Inspection (2026) - Unmitigated	0.75	5.86	8.41	0.01	0.23	0.58	0.80	0.21	0.12	0.33
Northern Pipeline Pipeline Inspection and rehabilitation Daily Maximum										
Emissions	1.40	11.20	14.83	0.03	0.41	0.96	1.37	0.38	0.21	0.59
AVAQMD & MDAQMD Threshold	137.0	137.0	548.0	137.0	N/A	N/A	82.0	N/A	N/A	65.0
Exceed Threshold (Y/N)?	No	No	No	No	N/A	N/A	No	N/A	N/A	No

GHG for pipeline inspection and rehabilitation	Onsite	Offsite
3.1 Pipeline Rehabilitation/Building Construction (2026) - Unmitigated	48.51166	29.45685
3.3 Pipeline Inspection (2026) - Unmitigated	58.02328	42.695884
Total GHG pipeline inspection and rehabilitation	178.6876749	

Cadiz Northern Pipeline

**Air Quality Construction Analysis - ARAVBO Valves
Unmitigated**

Regional Maximum Source	ROG	NOX	CO	SO2	Exhaust PM10	Fugitive PM10	Total PM10	Exhaust PM2.5	Fugitive PM2.5	Total PM2.5
3.1 Building Construction (2026) - Unmitigated	0.40	3.34	4.16	0.01	0.08	0.25	0.33	0.07	0.06	0.14
3.3 Trenching (2026) - Unmitigated	0.52	4.31	5.55	0.01	0.19	0.39	0.58	0.18	0.08	0.25
Northern Pipeline Daily Maximum Emissions	0.92	7.65	9.71	0.02	0.27	0.64	0.91	0.25	0.14	0.39
AVAQMD & MDAQMD Threshold	137.0	137.0	548.0	137.0	N/A	N/A	82.0	N/A	N/A	65.0
Exceed Threshold (Y/N)?	No	No	No	No	N/A	N/A	No	N/A	N/A	No

GHG per 200 feet of pipeline construction phase	Onsite	Offsite
3.1 Building Construction (2026) - Unmitigated	0.616506	0.8132088
3.3 Trenching (2026) - Unmitigated	0.677446	0.5421392
Total GHG per 1 AR/AV/BO Valve	2.649	
Total GHG of 150 AR/AV & 150 BO Valves	397.395	

GHG-3 Operational GHG Calculations and Modeling

Taurus 60 Engine (PS 2.3.5.6)

	Criteria Pollutants ¹					Greenhouse Gases ²				
	VOC	NO _x	CO	SO _x	PM10	PM2.5	CO ₂	CH ₄	N ₂ O	CO ₂ e (tons/yr)
lb/MMBTU	0.00634	0.00729	0.0111	0.0034	0.006	0.006	118.00	0.0104	0.0002	—
lbs/hr	0.40	0.4622	0.70	0.22	0.38	0.38	7,481.76	0.66	0.01	—
lb/day	9.65	11.09	16.89	5.17	9.13	9.13	179,562.27	15.83	0.30	—
lbs/yr	3,521.40	4,049.05	6,165.22	1,888.45	3,332.55	3,332.55	65,540,228	5,776	111	—
short tons/yr	1.76	2.02	3.08	0.94	1.67	1.67	32,770	2.89	0.06	32,859
metric tons/yr	—	—	—	—	—	—	29,729	2.62	0.05	29,809

Centaur 40 Engine (PS 1 and4)

	Criteria Pollutants ³					Greenhouse Gases ²				
	VOC	NO _x	CO	SO _x	PM10	PM2.5	CO ₂	CH ₄	N ₂ O	CO ₂ e (tons/yr)
lb/MMBTU	0.00632	0.00909	0.0221	0.0034	0.006	0.006	118.00	0.0104	0.0002	—
lbs/hr	0.17	0.25	0.60	0.09	0.16	0.16	3,219.81	0.28	0.01	—
lbs/day	4.14	5.95	14.47	2.23	3.93	3.93	77,275	6.81	0.13	—
lbs/yr	1,510.67	2,172.78	5,282.56	812.70	1,434.18	1,434.18	28,205,522	2,486	48	—
short tons/yr	0.76	1.09	2.64	0.41	0.72	0.72	14,103	1.24	0.02	14,141
metric tons/yr	—	—	—	—	—	—	12,794	1.13	0.02	12,828

Northern Pipeline Pump Stations Emissions (lbs/day)

CO₂e MTons/year
42,638

Notes:

1. Taurus 60 Engine Emission Factors for criteria pollutants: Estimated Power Island Emissions, Stantec, October 25, 2021. Received from email September 19, 2024.
2. Emission Factors for Greenhouse Gases: (CO₂) Estimated Power Island Emissions, Stantec, October 25, 2021. Received from email September 19, 2024. (CH₄, N₂O) CalEEMod, Natural Gas Emission Factors, Appendix G, Table G-4
3. Centaur 40 Engine Emission Factors for criteria pollutants: Estimated Power Island Emissions, Stantec, October 25, 2021. Received from email September 19, 2024.

Emissions Summary

Generator Type	VOC lbs/day	NOx	CO	SOx	PM10	PM2.5	CO ₂ 1	CH ₄ 25	N ₂ O 298	CO ₂ e	CO ₂ e MT/yr
NPS 1	2.75	3.95	9.61	1.48	2.61	2.61	51,327	4.52	0.09	51,466	8,521
NPS 2	3.25	3.74	5.70	1.74	3.08	3.08	60,543	5.34	0.10	60,707	10,051
NPS 3	1.50	1.72	2.62	0.80	1.42	1.42	27,829	2.45	0.05	27,904	4,620
NPS 4	1.39	2.00	4.86	0.75	1.32	1.32	25,948	2.29	0.04	26,019	4,308
NPS 5	2.28	2.63	4.00	1.22	2.16	2.16	42,493	3.75	0.07	42,608	7,054
NPS 6	2.62	3.01	4.58	1.40	2.48	2.48	48,697	4.29	0.08	48,829	8,084
Well Field	52.53	48.15	70.03	0.58	2.90	0.58					
SPS 1	35.03	26.27	72.97	0.58	2.88	0.58					
	101.34	91.46	174.36	8.56	18.83	14.22					

MDAQMD Thresholds **137.00** **137.00** **548.00** **137.00** **82.00** **65.00**

	no	no	no	no	no	no	no	no	no	no	no
NPS 1-4	4.14	5.95	14.47	2.23	3.93	3.93	77,275	6.81	0.13	77,485	12,828
NPS 2,3,5,6	9.65	11.09	16.89	5.17	9.13	9.13	179,562	15.83	0.30	180,049	29,809
Total NPS	13.79	17.05	31.36	7.40	13.06	13.06	256,838	22.64	0.44	257,533	42,638
Total Wellfield + SPS 1	87.56	74.42	143.00	1.16	5.78	1.16					

GHG-4 CalEEMod Output Files

Cadiz Pipeline - Pump Station Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Cadiz Pipeline - Pump Station
Construction Start Date	1/1/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.60
Precipitation (days)	6.80
Location	Cadiz, CA 92277, USA
County	San Bernardino-Mojave Desert
City	Unincorporated
Air District	Mojave Desert AQMD
Air Basin	Mojave Desert
TAZ	5194
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.25

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Light Industry	43.6	1000sqft	1.00	43,560	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Unr/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.4	10.4	9.44	11.7	0.02	0.31	0.38	0.69	0.29	0.09	0.38	—	2,709	2,709	0.09	0.09	2.03
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.32	1.11	9.48	11.2	0.02	0.31	1.31	1.54	0.29	0.25	0.47	—	2,996	2,996	0.08	0.30	0.13
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.07	0.99	3.75	4.70	0.01	0.12	0.25	0.38	0.11	0.06	0.17	—	1,202	1,202	0.03	0.06	0.54
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.19	0.18	0.68	0.86	< 0.005	0.02	0.05	0.07	0.02	0.01	0.03	—	199	199	0.01	0.01	0.09

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2026	10.4	10.4	9.44	11.7	0.02	0.31	0.38	0.69	0.29	0.09	0.38	—	2,709	0.09	0.09	2.03
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.32	1.11	9.48	11.2	0.02	0.31	1.31	1.54	0.29	0.25	0.47	—	2,996	0.08	0.30	0.13
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.07	0.99	3.75	4.70	0.01	0.12	0.25	0.38	0.11	0.06	0.17	—	1,202	0.03	0.06	0.54
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.19	0.18	0.68	0.86	<0.005	0.02	0.05	0.07	0.02	0.01	0.03	—	199	0.01	0.01	0.09

3. Construction Emissions Details

3.1. Site Preparation (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.20	2.07	3.82	0.01	0.07	—	0.07	0.06	—	0.06	—	581	581	0.02	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.21	<0.005	<0.005	—	<0.005	<0.005	—	<0.005	—	31.8	31.8	<0.005	<0.005	—

Worker	0.03	0.03	0.03	0.37	0.00	0.00	0.08	0.08	0.08	0.02	0.02	—	82.1	82.1	< 0.005	< 0.005	0.13
Vendor	< 0.005	< 0.005	0.10	0.04	< 0.005	< 0.005	0.03	0.03	0.03	0.01	0.01	—	98.4	98.4	< 0.005	0.01	0.11
Hauling	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	0.01	< 0.005	< 0.005	—	42.1	42.1	< 0.005	0.01	0.04
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.07	0.00	0.00	0.01	0.01	0.01	< 0.005	< 0.005	—	13.6	13.6	< 0.005	< 0.005	0.02
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	16.3	16.3	< 0.005	< 0.005	0.02
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.97	6.97	< 0.005	< 0.005	0.01

3.7. Paving (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.30	0.25	2.69	3.98	0.01	0.12	—	0.12	0.11	—	0.11	—	614	614	0.02	< 0.005	—
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.15	0.22	< 0.005	0.01	—	0.01	0.01	—	0.01	—	33.6	33.6	< 0.005	< 0.005	—
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

Vendor	0.01	0.01	0.31	0.13	< 0.005	< 0.005	0.09	0.09	0.09	< 0.005	0.02	0.03	—	312	312	0.04	0.79
Hauling	< 0.005	< 0.005	0.15	0.03	< 0.005	< 0.005	0.04	0.04	0.04	< 0.005	0.01	0.01	—	134	134	0.02	0.28
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.06	0.00	0.00	0.01	0.01	0.01	0.00	< 0.005	< 0.005	—	14.3	14.3	< 0.005	0.02
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.1	17.1	< 0.005	0.02
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.32	7.32	< 0.005	0.01
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.36	2.36	< 0.005	< 0.005
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.83	2.83	< 0.005	< 0.005
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.21	1.21	< 0.005	< 0.005

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	1/1/2026	1/28/2026	5.00	20.0	—
Grading	Grading	1/29/2026	2/25/2026	5.00	20.0	—
Building Construction	Building Construction	2/26/2026	8/5/2026	5.00	115	—
Paving	Paving	8/6/2026	9/2/2026	5.00	20.0	—
Architectural Coating	Architectural Coating	9/3/2026	9/30/2026	5.00	20.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Grading	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Building Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Building Construction	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Building Construction	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Architectural Coating	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	20.0	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	10.0	10.2	HHDT,MHDT
Site Preparation	Hauling	2.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	10.0	10.2	HHDT,MHDT
Grading	Hauling	23.0	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	20.0	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	10.0	10.2	HHDT,MHDT
Building Construction	Hauling	2.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	20.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	10.0	10.2	HHDT,MHDT
Paving	Hauling	2.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	20.0	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	10.0	10.2	HHDT,MHDT

Architectural Coating	Hauling	2.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	65,340	21,780	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Grading	—	3,300	10.0	0.00	—
Paving	0.00	0.00	0.00	0.00	0.00

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Light Industry	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	32.0	annual days of extreme heat

Extreme Precipitation	0.00	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.01	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi. Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi. Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm event. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters. Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	4	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	4	1	1	4
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	64.9
AQ-PM	13.4
AQ-DPM	0.09
Drinking Water	61.3
Lead Risk Housing	67.3
Pesticides	0.00

Toxic Releases	6.40
Traffic	0.38
Effect Indicators	—
CleanUp Sites	97.5
Groundwater	22.1
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	94.1
Sensitive Population	—
Asthma	34.4
Cardio-vascular	99.5
Low Birth Weights	61.7
Socioeconomic Factor Indicators	—
Education	50.7
Housing	4.03
Linguistic	24.8
Poverty	79.8
Unemployment	76.1

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	20.42858976
Employed	0.61593738
Median HI	9.059412293
Education	—

Bachelor's or higher	30.4889003
High school enrollment	100
Preschool enrollment	1.873476197
Transportation	—
Auto Access	58.83485179
Active commuting	1.039394328
Social	—
2-parent households	73.18105993
Voting	62.09418709
Neighborhood	—
Alcohol availability	97.0101373
Park access	20.00513281
Retail density	2.630565892
Supermarket access	6.775311177
Tree canopy	0.10265623
Housing	—
Homeownership	46.75991274
Housing habitability	57.3206724
Low-inc homeowner severe housing cost burden	90.69677916
Low-inc renter severe housing cost burden	87.54010009
Uncrowded housing	55.19055563
Health Outcomes	—
Insured adults	33.3504427
Arthritis	0.0
Asthma ER Admissions	58.4
High Blood Pressure	0.0
Cancer (excluding skin)	0.0

Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	1.8
Cognitively Disabled	5.5
Physically Disabled	3.9
Heart Attack ER Admissions	8.0
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	85.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	51.6
Elderly	14.5
English Speaking	72.3
Foreign-born	4.1
Outdoor Workers	67.4
Climate Change Adaptive Capacity	—

Impervious Surface Cover	95.3
Traffic Density	0.2
Traffic Access	23.0
Other Indices	—
Hardship	61.9
Other Decision Support	—
2016 Voting	75.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	44.0
Healthy Places Index Score for Project Location (b)	10.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
 b: The maximum Healthy Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
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Characteristics: Project Details	See project assumptions
Land Use	Assume 1 acre per station
Construction: Construction Phases	9 month construction per station
Construction: Off-Road Equipment	See project assumptions
Construction: Dust From Material Movement	See project assumptions
Construction: Trips and VMT	See project assumptions

Cadiz Pipeline - Pipeline Inspection Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Cadiz Pipeline - Pipeline Inspection
Construction Start Date	1/1/2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.60
Precipitation (days)	6.80
Location	Cadiz, CA 92277, USA
County	San Bernardino-Mojave Desert
City	Unincorporated
Air District	Mojave Desert AQMD
Air Basin	Mojave Desert
TAZ	5194
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.25

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Other Non-Asphalt Surfaces	1,457	1000sqft	33.5	0.00	1,457,280	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.89	0.75	5.83	8.41	0.02	0.23	0.67	0.90	0.21	0.13	0.34	—	1,929	1,929	0.06	0.08	2.03
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.87	0.74	5.86	7.90	0.02	0.23	0.67	0.90	0.21	0.13	0.34	—	1,897	1,897	0.05	0.08	0.05
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.49	0.42	3.38	4.31	0.01	0.12	0.33	0.46	0.12	0.07	0.18	—	1,063	1,063	0.03	0.05	0.52
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.09	0.08	0.62	0.79	< 0.005	0.02	0.06	0.08	0.02	0.01	0.03	—	176	176	< 0.005	0.01	0.09

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2026	0.89	0.75	5.83	8.41	0.02	0.23	0.67	0.90	0.21	0.13	0.34	—	1,929	1,929	0.06	0.08	2.03
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.87	0.74	5.86	7.90	0.02	0.23	0.67	0.90	0.21	0.13	0.34	—	1,897	1,897	0.05	0.08	0.05
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.49	0.42	3.38	4.31	0.01	0.12	0.33	0.46	0.12	0.07	0.18	—	1,063	1,063	0.03	0.05	0.52
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.09	0.08	0.62	0.79	<0.005	0.02	0.06	0.08	0.02	0.01	0.03	—	176	176	<0.005	0.01	0.09

3. Construction Emissions Details

3.1. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.65	0.54	4.75	4.71	0.01	0.18	—	0.18	0.16	—	0.16	—	1,198	1,198	0.05	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.65	0.54	4.75	4.71	0.01	0.18	—	0.18	0.16	—	0.16	—	1,198	1,198	0.05	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Pipeline Inspection	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Pipeline Inspection	Graders	Diesel	Average	1.00	8.00	148	0.41
Pipeline Inspection	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Pipeline Inspection	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Pipeline Inspection	—	—	—	—
Pipeline Inspection	Worker	20.0	18.5	LDA,LDT1,LDT2
Pipeline Inspection	Vendor	10.0	10.2	HHDT,MHDT
Pipeline Inspection	Hauling	2.00	20.0	HHDT
Pipeline Inspection	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	20.0	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	10.0	10.2	HHDT,MHDT
Building Construction	Hauling	2.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
------------	--	--	--	--	-----------------------------

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Pipeline Inspection	—	323,840	64.5	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Other Non-Asphalt Surfaces	33.5	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	32.0	annual days of extreme heat
Extreme Precipitation	0.00	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.01	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observational data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm event. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	4	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	4	1	1	4
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A

Flooding	N/A	N/A	N/A	N/A	N/A
Drought	1	1	1	2	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract				
Exposure Indicators	—				
AQ-Ozone	64.9				
AQ-PM	13.4				
AQ-DPM	0.09				
Drinking Water	61.3				
Lead Risk Housing	67.3				
Pesticides	0.00				
Toxic Releases	6.40				
Traffic	0.38				
Effect Indicators	—				
CleanUp Sites	97.5				
Groundwater	22.1				

Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	94.1
Sensitive Population	—
Asthma	34.4
Cardio-vascular	99.5
Low Birth Weights	61.7
Socioeconomic Factor Indicators	—
Education	50.7
Housing	4.03
Linguistic	24.8
Poverty	79.8
Unemployment	76.1

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	20.42858976
Employed	0.61593738
Median HI	9.059412293
Education	—
Bachelor's or higher	30.4889003
High school enrollment	100
Preschool enrollment	1.873476197
Transportation	—
Auto Access	58.83485179

Active commuting	1.039394328
Social	—
2-parent households	73.18105993
Voting	62.09418709
Neighborhood	—
Alcohol availability	97.0101373
Park access	20.00513281
Retail density	2.630565892
Supermarket access	6.775311177
Tree canopy	0.10266623
Housing	—
Homeownership	46.75991274
Housing habitability	57.3206724
Low-inc homeowner severe housing cost burden	90.69677916
Low-inc renter severe housing cost burden	87.54010009
Uncrowded housing	55.19055563
Health Outcomes	—
Insured adults	33.3504427
Arthritis	0.0
Asthma ER Admissions	58.4
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	1.8

Cognitively Disabled	5.5
Physically Disabled	3.9
Heart Attack ER Admissions	8.0
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	85.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	51.6
Elderly	14.5
English Speaking	72.3
Foreign-born	4.1
Outdoor Workers	67.4
Climate Change Adaptive Capacity	—
Impervious Surface Cover	95.3
Traffic Density	0.2
Traffic Access	23.0
Other Indices	—
Hardship	61.9

Other Decision Support	—
2016 Voting	75.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	44.0
Healthy Places Index Score for Project Location (b)	10.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

- a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
- b: The maximum Healthy Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Project Details	See project assumptions
Construction: Construction Phases	Total pipeline inspection 6 months, pipeline rehab 4 months
Construction: Off-Road Equipment	See project assumptions
Land Use	Pipeline inspection area
Construction: Dust From Material Movement	Dust movement

Construction: Trips and VMT

See project assumptions

Cadiz Pipeline - ARAVBO Valves Detailed Report

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4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.18. Vegetation

5.18.1. Land Use Change

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- 5.18.1. Biomass Cover Type
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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Cadiz Pipeline - ARAVBO Valves
Construction Start Date	1/1/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.60
Precipitation (days)	6.80
Location	Cadiz, CA 92277, USA
County	San Bernardino-Mojave Desert
City	Unincorporated
Air District	Mojave Desert AQMD
Air Basin	Mojave Desert
TAZ	5194
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.25

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Other Non-Asphalt Surfaces	0.05	1000sqft	< 0.005	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Unr/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.61	0.52	4.31	5.55	0.01	0.19	0.46	0.65	0.18	0.09	0.26	—	1,317	1,317	0.03	0.07	0.04
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.01	0.01	0.05	0.07	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	15.7	15.7	< 0.005	< 0.005	0.01
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.60	2.60	< 0.005	< 0.005	< 0.005

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.61	0.52	4.31	5.55	0.01	0.19	0.46	0.65	0.18	0.09	0.26	—	1,317	1,317	0.03	0.07	0.04

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026 Annual	0.01	0.01	0.05	0.07	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
2026	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

3. Construction Emissions Details

3.1. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	0.34	2.80	3.47	0.01	0.07	—	0.07	0.07	—	0.07	—	452	452	0.02	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.71	3.71	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.61	0.61	< 0.005	< 0.005	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Building Construction	Building Construction	1/6/2026	1/8/2026	5.00	3.00	—
Trenching	Trenching	1/11/2026	1/21/2026	5.00	2.00	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Trenching	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Trenching	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Trenching	Graders	Diesel	Average	1.00	8.00	148	0.41

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Trenching	—	—	—	—
Trenching	Worker	10.0	18.5	LDA,LDT1,LDT2
Trenching	Vendor	10.0	10.2	HHDT,MHDT
Trenching	Hauling	2.00	20.0	HHDT
Trenching	Onsite truck	—	—	HHDT

Building Construction	—	—	—	—	—
Building Construction	Worker	10.0	18.5	LDA,LDT1,LDT2	
Building Construction	Vendor	10.0	10.2	HHDT,MHDT	
Building Construction	Hauling	2.00	20.0	HHDT	
Building Construction	Onsite truck	—	—	HHDT	

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
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5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Trenching	—	44.4	1.00	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
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Other Non-Asphalt Surfaces	< 0.005	0%
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5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	32.0	annual days of extreme heat
Extreme Precipitation	0.00	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.01	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observational data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi. Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi. Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters. Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	4	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	4	1	1	4
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	64.9
AQ-PM	13.4
AQ-DPM	0.09

Drinking Water	61.3
Lead Risk Housing	67.3
Pesticides	0.00
Toxic Releases	6.40
Traffic	0.38
Effect Indicators	—
CleanUp Sites	97.5
Groundwater	22.1
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	94.1
Sensitive Population	—
Asthma	34.4
Cardio-vascular	99.5
Low Birth Weights	61.7
Socioeconomic Factor Indicators	—
Education	50.7
Housing	4.03
Linguistic	24.8
Poverty	79.8
Unemployment	76.1

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	20.42858976

Employed	0.61593738
Median HI	9.059412293
Education	—
Bachelor's or higher	30.4889003
High school enrollment	100
Preschool enrollment	1.873476197
Transportation	—
Auto Access	58.83485179
Active commuting	1.039394328
Social	—
2-parent households	73.18105993
Voting	62.09418709
Neighborhood	—
Alcohol availability	97.0101373
Park access	20.00513281
Retail density	2.630565892
Supermarket access	6.775311177
Tree canopy	0.10266623
Housing	—
Homeownership	46.75991274
Housing habitability	57.3206724
Low-inc homeowner severe housing cost burden	90.69677916
Low-inc renter severe housing cost burden	87.54010009
Uncrowded housing	55.19055563
Health Outcomes	—
Insured adults	33.3504427
Arthritis	0.0

Asthma ER Admissions	58.4
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	1.8
Cognitively Disabled	5.5
Physically Disabled	3.9
Heart Attack ER Admissions	8.0
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	85.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	51.6
Elderly	14.5
English Speaking	72.3

Foreign-born	4.1
Outdoor Workers	67.4
Climate Change Adaptive Capacity	—
Impervious Surface Cover	95.3
Traffic Density	0.2
Traffic Access	23.0
Other Indices	—
Hardship	61.9
Other Decision Support	—
2016 Voting	75.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	44.0
Healthy Places Index Score for Project Location (b)	10.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
 b: The maximum Healthy Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Project Details	See project assumptions
Construction: Construction Phases	1 week per valve
Construction: Off-Road Equipment	See project assumptions
Construction: Dust From Material Movement	See project assumptions
Construction: Trips and VMT	See project assumptions

Cadiz Pipeline - Cathodic Protection Repair Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Cadiz Pipeline - Cathodic Protection Repair
Construction Start Date	1/1/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.60
Precipitation (days)	6.80
Location	Cadiz, CA 92277, USA
County	San Bernardino-Mojave Desert
City	Unincorporated
Air District	Mojave Desert AQMD
Air Basin	Mojave Desert
TAZ	5194
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.25

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Other Non-Asphalt Surfaces	1,457	1000sqft	33.5	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.79	0.66	5.33	7.23	0.01	0.22	0.25	0.47	0.20	0.06	0.26	—	1,506	1,506	0.04	0.08	1.55
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.78	0.66	5.37	6.98	0.01	0.22	0.25	0.47	0.20	0.06	0.26	—	1,490	1,490	0.04	0.08	0.04
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.19	0.16	1.29	1.70	< 0.005	0.05	0.06	0.11	0.05	0.02	0.06	—	360	360	0.01	0.02	0.16
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.03	0.03	0.24	0.31	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01	—	59.6	59.6	< 0.005	< 0.005	0.03

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2026	0.79	0.66	5.33	7.23	0.01	0.22	0.25	0.47	0.20	0.06	0.26	—	1,506	1,506	0.04	0.08	1.55
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.78	0.66	5.37	6.98	0.01	0.22	0.25	0.47	0.20	0.06	0.26	—	1,490	1,490	0.04	0.08	0.04
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.19	0.16	1.29	1.70	< 0.005	0.05	0.06	0.11	0.05	0.02	0.06	—	360	360	0.01	0.02	0.16
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.03	0.03	0.24	0.31	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01	—	59.6	59.6	< 0.005	< 0.005	0.03

3. Construction Emissions Details

3.1. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	0.60	4.83	6.29	0.01	0.21	—	0.21	0.19	—	0.19	—	917	917	0.04	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	0.60	4.83	6.29	0.01	0.21	—	0.21	0.19	—	0.19	—	917	917	0.04	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Building Construction	—	—	—	—
Building Construction	Worker	10.0	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	10.0	10.2	HHDT,MHDT
Building Construction	Hauling	2.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Other Non-Asphalt Surfaces	33.5	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	32.0	annual days of extreme heat
Extreme Precipitation	0.00	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.01	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observational data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm event. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	4	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure. The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt. The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	4	1	1	4
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure. The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt. The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	64.9

AQ-PM	13.4
AQ-DPM	0.09
Drinking Water	61.3
Lead Risk Housing	67.3
Pesticides	0.00
Toxic Releases	6.40
Traffic	0.38
Effect Indicators	—
CleanUp Sites	97.5
Groundwater	22.1
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	94.1
Sensitive Population	—
Asthma	34.4
Cardio-vascular	99.5
Low Birth Weights	61.7
Socioeconomic Factor Indicators	—
Education	50.7
Housing	4.03
Linguistic	24.8
Poverty	79.8
Unemployment	76.1

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator

Result for Project Census Tract

Economic	—
Above Poverty	20.42858976
Employed	0.61593738
Median HI	9.059412293
Education	—
Bachelor's or higher	30.4889003
High school enrollment	100
Preschool enrollment	1.873476197
Transportation	—
Auto Access	58.83485179
Active commuting	1.039394328
Social	—
2-parent households	73.18105993
Voting	62.09418709
Neighborhood	—
Alcohol availability	97.0101373
Park access	20.00513281
Retail density	2.630565892
Supermarket access	6.775311177
Tree canopy	0.10265623
Housing	—
Homeownership	46.75991274
Housing habitability	57.3206724
Low-inc homeowner severe housing cost burden	90.69677916
Low-inc renter severe housing cost burden	87.54010009
Uncrowded housing	55.19055563
Health Outcomes	—

Insured adults	33.3504427
Arthritis	0.0
Asthma ER Admissions	58.4
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	1.8
Cognitively Disabled	5.5
Physically Disabled	3.9
Heart Attack ER Admissions	8.0
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	85.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	51.6

Elderly	14.5
English Speaking	72.3
Foreign-born	4.1
Outdoor Workers	67.4
Climate Change Adaptive Capacity	—
Impervious Surface Cover	95.3
Traffic Density	0.2
Traffic Access	23.0
Other Indices	—
Hardship	61.9
Other Decision Support	—
2016 Voting	75.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	44.0
Healthy Places Index Score for Project Location (b)	10.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
 b: The maximum Healthy Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Project Details	See project assumptions
Construction: Construction Phases	See project assumptions
Construction: Off-Road Equipment	See project assumptions
Construction: Trips and VMT	See project assumptions