

**Proposed Project  
Total Construction-Related Fuel Usage**

**Construction**

<b>Table 1. Construction Year One (2022)</b>			
<b>Action</b>	<b>Carbon Dioxide Equivalents (CO<sub>2</sub>e) in Metric Tons<sup>1</sup></b>	<b>Conversion of Metric Tons to Kilograms<sup>2</sup></b>	<b>Construction Equipment Emission Factor<sup>2</sup></b>
Project Construction	127	127,000	10.15
<b>Total Gallons Consumed During Construction Year One:</b>			<b>12,512</b>

<b>Table 2. Construction Year Two (2023)</b>			
<b>Action</b>	<b>Carbon Dioxide Equivalents (CO<sub>2</sub>e) in Metric Tons<sup>1</sup></b>	<b>Conversion of Metric Tons to Kilograms<sup>2</sup></b>	<b>Construction Equipment Emission Factor<sup>2</sup></b>
Project Construction	193	193,000	10.15
<b>Total Gallons Consumed During Construction Year Two:</b>			<b>19,015</b>

<b>Table 2. Construction Year Three (2024)</b>			
<b>Action</b>	<b>Carbon Dioxide Equivalents (CO<sub>2</sub>e) in Metric Tons<sup>1</sup></b>	<b>Conversion of Metric Tons to Kilograms<sup>2</sup></b>	<b>Construction Equipment Emission Factor<sup>2</sup></b>
Project Construction	125	125,000	10.15
<b>Total Gallons Consumed During Construction Year Three:</b>			<b>12,315</b>

**Sources:**

<sup>1</sup>ECORP Consulting. 2022. Air Quality and Greenhouse Gas Emissions Assessment: Saxon Reservoir and Replacement Well Project

<sup>2</sup>Climate Registry. 2016. *General Reporting Protocol for the Voluntary Reporting Program version 2.1*. January 2016.

<http://www.theclimateregistry.org/wp-content/uploads/2014/11/General-Reporting-Protocol-Version-2.1.pdf>

**Initial Storage Tank Filling - Energy Consumption and GHG Calculations**

Booster Water Pumping						Energy Consumption					SCE Intensity Factors <sup>4</sup>		Estimated Emissions		CO2e
Storage Capacity	Pumping rate <sup>1</sup> (gpm)	Pump Size <sup>2</sup> (hp)	Pumping Duration			Storage Capacity	Pump Energy Use Rate (ac/ft) <sup>3</sup> (kWhr/ac/ft)	Total Energy		GHG Pollutant	(lb/MWh)	(lb)	(tonne)	(tonne)	
			(min)	(hr)	(days)			(kWhr)	(MWh)						
750000	450	40	1,667	28	1.16	750000	2.32	383.0	888	0.89	CO2	702.44	623.44	0.28	0.28
											CH4	0.029	0.03	0.000012	
											N2O	0.006	0.01	0.0000024	

<sup>1</sup> Per design specifications provided by applicant, 11/8/18

<sup>2</sup> Pump size assumed based on previous projects

<sup>3</sup> Based on 323,650.8 gallons per ac. ft.

<sup>4</sup> Based on CalEEMod Utility Intensity Factors for Southern California Edison