Proposed Project
Total Construction-Related and Operational
Gasoline Usage

Table 1. Reservoir and Booster Station Construction Year One			
Action	**Carbon Dioxide Equivalents (CO_2e) in Metric Tons[1]**	**Conversion of Metric Tons to Kilograms[2]**	**Construction Equipment Emission Factor[2]**
Project Construction	0,412	412,000	10.15
Total Gallons Consumed During Project Construction:			**40,591**

Diesel Engine Emissions Calculations

Table 2. Emergency Generator Operational Data			
Parameter	**Value**	**Units**	**Source/Justification**
Operational Time	24	hrs	
Generator Size	173	bhp	Generator Size per CalEEMod
BSFC	7,000	Btu/hp-hr	AP-42
Heating Value	19,300	Btu/lb	
Diesel Density	7	lb/gal	
Load Factor	74%		CalEEMod

Total fuel consumption: **159 gallons**

1. Fuel Usage (gal) = Engine Size (bhp) * load factor (%) * operating hours (hrs) * BSFC (Btu/hp-hr) / Heating Value Diesel (Btu/lb) / Density Diesel (lb/gal)

Acronyms	
BSFC	Break Specific Fuel Content
Btu	British Thermal Unit
CalEEMod	Salifornia EmissionsEestimator Model