

**Attachment # 3**  
**Air Quality Analysis**

**Clearlake Dollar General Initial Study**  
**5330 Old Highway 53 and 5345 Jones Avenue**

This air modeling was conducted on September 22, 2021, using CalEEMod 2020 4.0. Attached is the model findings.

**Clearlake Dollar Store**  
**Lake County AQMD, Summary Report**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
	10.00		0.00	0.00	0
Free-Standing Discount store	10.00	1000sqft	0.23	10,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	67
<b>Climate Zone</b>	1			<b>Operational Year</b>	2023
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	203.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments**

Only CalEEMod defaults were used.

Project Characteristics -

Land Use -

Land Use Change -

**2.0 Peak Daily Emissions**

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**Peak Daily Construction Emissions**

**Peak Daily Construction Emissions**

		Unmitigated						Mitigated					
		ROG	NOX	CO	SO2	PM10	PM2.5	ROG	NOX	CO	SO2	PM10	PM2.5
Year	Phase	lb/day											
2021	Demolition	0.8944 W	7.2995 S	8.1102 S	0.0128 S	0.4902 S	0.4110 S	0.8944 W	7.2995 S	8.1102 S	0.0128 S	0.4902 S	0.4110 S
2021	Site Preparation	0.6892 W	7.8436 S	4.2980 S	0.0101 S	0.8711 S	0.3440 S	0.6892 W	7.8436 S	4.2980 S	0.0101 S	0.8711 S	0.3440 S
2021	Grading	1.3667 W	14.3680 S	6.7643 S	0.0148 S	6.0161 S	3.1734 S	1.3667 W	14.3680 S	6.7643 S	0.0148 S	6.0161 S	3.1734 S
2021	Building Construction	0.8156 W	8.1786 W	7.4738 S	0.0121 S	0.4887 S	0.4251 W	0.8156 W	8.1786 W	7.4738 S	0.0121 S	0.4887 S	0.4251 W
2022	Building Construction	0.7209 W	7.1866 W	7.3361 S	0.0121 S	0.4118 S	0.3542 S	0.7209 W	7.1866 W	7.3361 S	0.0121 S	0.4118 S	0.3542 S
2022	Paving	0.8110 W	5.9911 S	7.9068 S	0.0127 S	0.4451 S	0.3161 S	0.8110 W	5.9911 S	7.9068 S	0.0127 S	0.4451 S	0.3161 S
2022	Architectural Coating	46.5637 W	1.4126 S	1.8620 S	3.0500e-003 S	0.0900 S	0.0840 S	46.5637 W	1.4126 S	1.8620 S	3.0500e-003 S	0.0900 S	0.0840 S
	Peak Daily Total	46.5637 W	14.3680 S	8.1102 S	0.0148 S	6.0161 S	3.1734 S	46.5637 W	14.3680 S	8.1102 S	0.0148 S	6.0161 S	3.1734 S
	Air District Threshold												
	Exceed Significance?												

### Peak Daily Operational Emissions

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		Unmitigated						Mitigated					
		ROG	NOX	CO	SO2	PM10	PM2.5	ROG	NOX	CO	SO2	PM10	PM2.5
	Operational Activity	lb/day											
On-Site	Area	0.2777 S	2.0000e-005 S	2.0400e-003 S	0.0000 S	1.0000e-005 S	1.0000e-005 S	0.2777 S	2.0000e-005 S	2.0400e-003 S	0.0000 S	1.0000e-005 S	1.0000e-005 S
On-Site	Energy	2.1100e-003 S	0.0192 S	0.0161 S	1.2000e-004 S	1.4600e-003 S	1.4600e-003 S	2.1100e-003 S	0.0192 S	0.0161 S	1.2000e-004 S	1.4600e-003 S	1.4600e-003 S
Off-Site	Mobile	4.0500 W	2.9934 W	18.9346 S	0.0265 S	2.3657 W	0.6537 W	4.0500 W	2.9934 W	18.9346 S	0.0265 S	2.3657 W	0.6537 W
	Peak Daily Total	4.3298 W	3.0126 W	18.9527 S	0.0267 S	2.3672 W	0.6552 W	4.3298 W	3.0126 W	18.9527 S	0.0267 S	2.3672 W	0.6552 W
	Air District Threshold												
	Exceed Significance?												

### 3.0 Annual GHG Emissions

#### Annual GHG

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