

# **Appendices**

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## **Appendix IS-1**

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Air Quality and Greenhouse Gas Emissions  
Model Worksheets

# Getty Center Parking Improvement Project

## Draft MND

### Technical Appendix for Air Quality and Greenhouse Gas Emissions

- Appendix IS-1-1: Air Quality Worksheets and Modeling Output Files
  - Appendix IS-1-1.1: Summary of Air Pollutant Emissions
  - Appendix IS-1-1.2: Localized Significance Threshold (LST) Calculation Worksheet
  - Appendix IS-1-1.3: Summary of Construction Assumptions
  - Appendix IS-1-1.4: CalEEMod Outputs
    - Project Construction and Operations (Buildout Year)
    - Project Construction Onsite
  
- Appendix IS-1-2: Greenhouse Gas Worksheets and Modeling Output Files
  - GHG Emissions Summary
  - Parking Lot Lighting Energy Calculations
  - Landscaping Water Usage Calculations
  - Project Construction and Operations (Buildout Year)

# Getty Center Parking Improvement Project

Draft MND

## Appendix IS-1-1-Air Quality Worksheets and Modeling Output Files

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  - Appendix IS-1-1.1: Summary of Air Pollutant Emissions
  - Appendix IS-1-1.2: Localized Significance Threshold (LST) Calculation Worksheet
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    - Project Construction and Operations (Buildout Year)
    - Project Construction Onsite

Getty Parking Improvement  
Air Quality Emissions Summary

<b>AQ SUMMARY OF EMISSIONS</b>							
<b>Construction Emissions (Unmitigated)</b>							
Regional (Daily) Unmitigated	ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	
2022	3	22	17	0	4	2	
MAX	3	22	17	<1	4	2	
<b>Threshold</b>	<b>75</b>	<b>100</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>	
<b>Difference</b>	<b>(72)</b>	<b>(78)</b>	<b>(533)</b>	<b>(150)</b>	<b>(146)</b>	<b>(53)</b>	
<b>Impact</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	
Localized (Daily) Unmitigated	ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	
2022	3	20	16	<1	3	2	
MAX		20	16	<1	3	2	
<b>Threshold</b>		137	2367		57	18	
<b>Difference</b>		<b>(118)</b>	<b>(2,351)</b>		<b>(54)</b>	<b>(16)</b>	
<b>Impact</b>		<b>No</b>	<b>No</b>		<b>No</b>	<b>No</b>	

**Step 1. Determine Allowable Increase using 98th percentile NO2 and Max NO2 data**

**Central LA NO2 Monitoring Data**

SRA	City	Design Value	98th percentile, ppb			
		2014-2016	2013	2016	2017	2018
2	Northwest Coastal LA	47		49	46	46

  

SRA	City	Design Value	Max Hourly, ppb			
		2006-2008	2013	2016	2017	2018
2	Northwest Coastal LA	120		54	56	65

Threshold (ppb)      Allowable Increase (ppb)  
100                      53

Threshold (ppb)      Allowable Increase (ppb)  
180                      60

<b>Max Hourly vs. 98th Percentile Ratio (Allowable Increase)</b>	<b>88%</b>
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**Step 2. Use ratio in Step 1 to determine LST lookup value. Extrapolate/Interpolate LST look-up value for project area**

**LST Threshold (SRA 2, 200 meter receptor)**

Project Size (acres)	NO2 (lbs/day)	98th Percentile NO2 (lbs/day)	CO (lbs/day)	PM10 (lbs/day)	PM2.5 (lbs/day)	PM10 Ops (lbs/day)	PM2.5 Ops (lbs/day)
1	156	137	2367	57	18	14	5

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## Air Quality Analysis Assumptions

Construction Details	Start Date	End Date	Duration (Months)	Days	Employee Trips (One-way)	Max Daily Hauls	Total Hauls	Max Daily Deliveries	Construction (Sq Ft)		
									Residential	Non-Residential	Parking (Spaces)
<b>Phase 1</b>				9							
Site Preparation	6/1/2022	6/30/2022	1	22	10	5	6				
Grading/Excavation	7/1/2022	8/31/2022	2	44	13	6	250				
Paving / Landscape/ Buildings	9/1/2022	12/1/2022	3	66	20	20					
Building Construction	10/1/2022	12/1/2022	2	44	-	-				400	
Architectural Coatings	11/1/2022	12/1/2022	1	23	-	-					
<b>Site Acreage</b>											
	3.00										
<b>Demolition Quantities</b>											
Cubic Yards	100										
<b>Import/Export Quantities during Grading (CY)</b>											
Import	2,100										
Export	1,400										
<b>Asphalt (CY)</b>											
Asphalt	1,600										

Paving, building construction and architectural coatings phases are assumed to be performed by the same crew.

Therefore, no additional equipment or trips are listed for building construction or architectural coatings

Equipment					
	Site Prep	Grading/Excavation	Paving/Landscape	Building Construction	Architectural Coatings
Air Compressor	1		1		
Aerial Lift					
Bore/Drill Rig					
Cement and Mortar Mixers			1		
Concrete/Industrial Saws					
Cranes (Tower)					
Cranes (Mobile)					
Crawler Tractors					
Crushing/Proc. Equipment					
Excavators		1			
Forklifts			1		
Generator Sets			1		
Graders	1				
Off-Highway Tractors					
Water Truck	1	1			
Pavers					
Paving Equipment			1		
Pumps					
Plate Compactors					
Rollers			1		
Rough Terrain Forklifts					
Rubber Tired Dozers		1			
Rubber Tired Loaders		1			
Scrapers					
Signal Boards					
Skid Steer Loaders					
Surfacing Equipment					
Tractors/Loaders/Backhoes	2	1	1		
Trenchers		1			
Welders			1		
Other ( )					
Total Pieces	5	6	8	-	-

Getty Center Parking - South Coast Air Basin, Winter

**Getty Center Parking**  
**South Coast Air Basin, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	220.00	Space	1.98	130,630.00	0
Health Club	0.23	1000sqft	0.01	230.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	11	<b>Operational Year</b>	2022		
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	708	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - LADWP SB100 RPS (Year 2022) - 708 lbs/MWH

Land Use - see assumptions

Construction Phase - see assumptions

Off-road Equipment - No equipment

Off-road Equipment - No equipment

Off-road Equipment - see assumptions

Off-road Equipment - see assumptions

Off-road Equipment - see assumptions

Trips and VMT - 2,100 CY of Export

Energy Use - No natural gas would be used during operations

Water And Wastewater - Water Usage calculated from Water Infrastructure Memo

Solid Waste -

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	115.00	100.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	345.00	300.00
tblAreaCoating	Area_Nonresidential_Exterior	115	0
tblAreaCoating	Area_Nonresidential_Interior	345	0
tblAreaCoating	Area_Parking	7838	5280
tblConstructionPhase	NumDays	10.00	23.00
tblConstructionPhase	NumDays	200.00	44.00
tblConstructionPhase	NumDays	4.00	44.00
tblConstructionPhase	NumDays	10.00	66.00
tblConstructionPhase	NumDays	2.00	22.00



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tblEnergyUse	LightingElect	0.35	0.06
tblEnergyUse	NT24E	0.00	7.40
tblEnergyUse	NT24NG	4.45	0.00
tblEnergyUse	T24NG	13.65	0.00
tblGrading	AcresOfGrading	0.00	3.00
tblGrading	AcresOfGrading	11.00	1.00
tblGrading	MaterialExported	0.00	1,400.00
tblGrading	MaterialExported	0.00	100.00
tblLandUse	LandUseSquareFeet	88,000.00	130,630.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	708
tblTripsAndVMT	HaulingTripLength	20.00	22.00
tblTripsAndVMT	HaulingTripLength	20.00	22.00
tblTripsAndVMT	HaulingTripNumber	175.00	500.00
tblTripsAndVMT	VendorTripLength	6.90	13.80
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	21.00	0.00
tblTripsAndVMT	WorkerTripNumber	55.00	0.00
tblTripsAndVMT	WorkerTripNumber	11.00	0.00
tblVehicleTrips	CC_TTP	64.10	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TTP	16.90	100.00
tblVehicleTrips	DV_TP	39.00	0.00
tblVehicleTrips	PB_TP	9.00	0.00
tblVehicleTrips	PR_TP	52.00	100.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblWater	IndoorWaterUseRate	13,602.92	8,395.00
tblWater	OutdoorWaterUseRate	8,337.28	156,038.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					

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2022	3.4715	21.6222	17.2213	0.0370	6.4616	0.9442	7.4058	3.4169	0.8690	4.2859						
<b>Maximum</b>	<b>3.4715</b>	<b>21.6222</b>	<b>17.2213</b>	<b>0.0370</b>	<b>6.4616</b>	<b>0.9442</b>	<b>7.4058</b>	<b>3.4169</b>	<b>0.8690</b>	<b>4.2859</b>						

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.4715	21.6222	17.2213	0.0370	2.7418	0.9442	3.6860	1.3926	0.8690	2.2616						
<b>Maximum</b>	<b>3.4715</b>	<b>21.6222</b>	<b>17.2213</b>	<b>0.0370</b>	<b>2.7418</b>	<b>0.9442</b>	<b>3.6860</b>	<b>1.3926</b>	<b>0.8690</b>	<b>2.2616</b>						

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>57.57</b>	<b>0.00</b>	<b>50.23</b>	<b>59.24</b>	<b>0.00</b>	<b>47.23</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0596	2.1000e-004	0.0225	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005						
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
<b>Total</b>	<b>0.0596</b>	<b>2.1000e-004</b>	<b>0.0225</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>8.0000e-005</b>						

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0596	2.1000e-004	0.0225	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005						
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
<b>Total</b>	<b>0.0596</b>	<b>2.1000e-004</b>	<b>0.0225</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>8.0000e-005</b>						

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2022	6/30/2022	5	22	
2	Grading	Grading	7/1/2022	8/31/2022	5	44	
3	Paving	Paving	9/1/2022	12/1/2022	5	66	
4	Building Construction	Building Construction	10/1/2022	12/1/2022	5	44	
5	Architectural Coatings	Architectural Coating	11/1/2022	12/1/2022	5	23	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 3

Acres of Paving: 1.98

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 300; Non-Residential Outdoor: 100; Striped Parking Area: 7,838

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Air Compressors	1	8.00	78	0.48
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	0	6.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Paving	Air Compressors	1	8.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Forklifts	1	8.00	89	0.20
Paving	Generator Sets	1	8.00	84	0.74
Paving	Pavers	0	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Welders	1	8.00	46	0.45
Building Construction	Air Compressors	1	0.00	78	0.48
Architectural Coatings	Air Compressors	1	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	4	10.00	0.00	13.00	14.70	6.90	22.00	LD_Mix	HDT_Mix	HHDT

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Grading	5	13.00	0.00	500.00	14.70	6.90	22.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	20.00	0.00	14.70	13.80	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coatings	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0487	0.0000	0.0487	5.2800e-003	0.0000	5.2800e-003						
Off-Road	1.0171	10.4868	8.6158	0.0168		0.4564	0.4564		0.4286	0.4286						
<b>Total</b>	<b>1.0171</b>	<b>10.4868</b>	<b>8.6158</b>	<b>0.0168</b>	<b>0.0487</b>	<b>0.4564</b>	<b>0.5051</b>	<b>5.2800e-003</b>	<b>0.4286</b>	<b>0.4339</b>						

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.7200e-003	0.1527	0.0383	4.8000e-004	0.0114	4.6000e-004	0.0118	3.1100e-003	4.4000e-004	3.5500e-003						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0434	0.0271	0.3137	1.0000e-003	0.1118	8.0000e-004	0.1126	0.0296	7.4000e-004	0.0304						
<b>Total</b>	<b>0.0481</b>	<b>0.1798</b>	<b>0.3521</b>	<b>1.4800e-003</b>	<b>0.1231</b>	<b>1.2600e-003</b>	<b>0.1244</b>	<b>0.0328</b>	<b>1.1800e-003</b>	<b>0.0339</b>						

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0190	0.0000	0.0190	2.0600e-003	0.0000	2.0600e-003						
Off-Road	1.0171	10.4868	8.6158	0.0168		0.4564	0.4564		0.4286	0.4286						
<b>Total</b>	<b>1.0171</b>	<b>10.4868</b>	<b>8.6158</b>	<b>0.0168</b>	<b>0.0190</b>	<b>0.4564</b>	<b>0.4754</b>	<b>2.0600e-003</b>	<b>0.4286</b>	<b>0.4307</b>						

Mitigated Construction Off-Site

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.7200e-003	0.1527	0.0383	4.8000e-004	0.0114	4.6000e-004	0.0118	3.1100e-003	4.4000e-004	3.5500e-003						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0434	0.0271	0.3137	1.0000e-003	0.1118	8.0000e-004	0.1126	0.0296	7.4000e-004	0.0304						
<b>Total</b>	<b>0.0481</b>	<b>0.1798</b>	<b>0.3521</b>	<b>1.4800e-003</b>	<b>0.1231</b>	<b>1.2600e-003</b>	<b>0.1244</b>	<b>0.0328</b>	<b>1.1800e-003</b>	<b>0.0339</b>						

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0980	0.0000	6.0980	3.3186	0.0000	3.3186						
Off-Road	1.8595	18.6509	13.2053	0.0264		0.9343	0.9343		0.8596	0.8596						
<b>Total</b>	<b>1.8595</b>	<b>18.6509</b>	<b>13.2053</b>	<b>0.0264</b>	<b>6.0980</b>	<b>0.9343</b>	<b>7.0323</b>	<b>3.3186</b>	<b>0.8596</b>	<b>4.1782</b>						

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0908	2.9361	0.7367	9.2000e-003	0.2183	8.8300e-003	0.2271	0.0598	8.4400e-003	0.0683						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0564	0.0352	0.4079	1.3100e-003	0.1453	1.0400e-003	0.1464	0.0385	9.6000e-004	0.0395						
<b>Total</b>	<b>0.1472</b>	<b>2.9713</b>	<b>1.1446</b>	<b>0.0105</b>	<b>0.3636</b>	<b>9.8700e-003</b>	<b>0.3735</b>	<b>0.0984</b>	<b>9.4000e-003</b>	<b>0.1078</b>						

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3782	0.0000	2.3782	1.2943	0.0000	1.2943						
Off-Road	1.8595	18.6509	13.2053	0.0264		0.9343	0.9343		0.8596	0.8596						
<b>Total</b>	<b>1.8595</b>	<b>18.6509</b>	<b>13.2053</b>	<b>0.0264</b>	<b>2.3782</b>	<b>0.9343</b>	<b>3.3126</b>	<b>1.2943</b>	<b>0.8596</b>	<b>2.1538</b>						

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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0908	2.9361	0.7367	9.2000e-003	0.2183	8.8300e-003	0.2271	0.0598	8.4400e-003	0.0683						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0564	0.0352	0.4079	1.3100e-003	0.1453	1.0400e-003	0.1464	0.0385	9.6000e-004	0.0395						
<b>Total</b>	<b>0.1472</b>	<b>2.9713</b>	<b>1.1446</b>	<b>0.0105</b>	<b>0.3636</b>	<b>9.8700e-003</b>	<b>0.3735</b>	<b>0.0984</b>	<b>9.4000e-003</b>	<b>0.1078</b>						

**3.4 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5610	12.8314	15.8964	0.0251		0.6783	0.6783		0.6508	0.6508						
Paving	0.0786					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>1.6396</b>	<b>12.8314</b>	<b>15.8964</b>	<b>0.0251</b>		<b>0.6783</b>	<b>0.6783</b>		<b>0.6508</b>	<b>0.6508</b>						

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0850	2.5177	0.6975	8.8000e-003	0.6203	6.6000e-003	0.6269	0.1630	6.3100e-003	0.1694						
Worker	0.0868	0.0542	0.6275	2.0100e-003	0.6123	1.6100e-003	0.6139	0.1547	1.4800e-003	0.1562						
<b>Total</b>	<b>0.1718</b>	<b>2.5718</b>	<b>1.3249</b>	<b>0.0108</b>	<b>1.2326</b>	<b>8.2100e-003</b>	<b>1.2408</b>	<b>0.3177</b>	<b>7.7900e-003</b>	<b>0.3255</b>						

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5610	12.8314	15.8964	0.0251		0.6783	0.6783		0.6508	0.6508						

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Paving	0.0786					0.0000	0.0000		0.0000	0.0000							
<b>Total</b>	<b>1.6396</b>	<b>12.8314</b>	<b>15.8964</b>	<b>0.0251</b>		<b>0.6783</b>	<b>0.6783</b>		<b>0.6508</b>	<b>0.6508</b>							

**Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0850	2.5177	0.6975	8.8000e-003	0.6203	6.6000e-003	0.6269	0.1630	6.3100e-003	0.1694						
Worker	0.0868	0.0542	0.6275	2.0100e-003	0.6123	1.6100e-003	0.6139	0.1547	1.4800e-003	0.1562						
<b>Total</b>	<b>0.1718</b>	<b>2.5718</b>	<b>1.3249</b>	<b>0.0108</b>	<b>1.2326</b>	<b>8.2100e-003</b>	<b>1.2408</b>	<b>0.3177</b>	<b>7.7900e-003</b>	<b>0.3255</b>						

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>						

**Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>						

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>						

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>						

**3.6 Architectural Coatings - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.6601					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>1.6601</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>						

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>						

**Mitigated Construction On-Site**



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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.6601					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>1.6601</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>						

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>						

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Health Club	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		

**4.3 Trip Type Information**

	Miles	Trip %	Trip Purpose %

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Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Health Club	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Health Club	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
Parking Lot	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>						

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Health Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						

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Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						
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6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0596	2.1000e-004	0.0225	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005						
Unmitigated	0.0596	2.1000e-004	0.0225	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005						

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	6.7000e-003					0.0000	0.0000		0.0000	0.0000						
Consumer Products	0.0508					0.0000	0.0000		0.0000	0.0000						
Landscaping	2.0900e-003	2.1000e-004	0.0225	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005						
<b>Total</b>	<b>0.0596</b>	<b>2.1000e-004</b>	<b>0.0225</b>	<b>0.0000</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>						

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	6.7000e-003					0.0000	0.0000		0.0000	0.0000						
Consumer Products	0.0508					0.0000	0.0000		0.0000	0.0000						
Landscaping	2.0900e-003	2.1000e-004	0.0225	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005						
<b>Total</b>	<b>0.0596</b>	<b>2.1000e-004</b>	<b>0.0225</b>	<b>0.0000</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>						

7.0 Water Detail

7.1 Mitigation Measures Water

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Getty Center Parking (Construction Onsite) - South Coast Air Basin, Winter

**Getty Center Parking (Construction Onsite)**  
**South Coast Air Basin, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	220.00	Space	1.98	130,630.00	0
Health Club	0.23	1000sqft	0.01	230.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	11	<b>Operational Year</b>	2022		
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	708	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - LADWP SB100 RPS (Year 2022) - 708 lbs/MWH

Land Use - see assumptions

Construction Phase - see assumptions

Off-road Equipment - No equipment

Off-road Equipment - No equipment

Off-road Equipment - see assumptions

Off-road Equipment - see assumptions

Off-road Equipment - see assumptions

Energy Use - No natural gas would be used during operations

Water And Wastewater - See appendix for restroom and landscaping water consumption calculations

Solid Waste -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	115.00	100.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	345.00	300.00
tblAreaCoating	Area_Nonresidential_Exterior	115	0
tblAreaCoating	Area_Nonresidential_Interior	345	0
tblAreaCoating	Area_Parking	7838	5280
tblConstructionPhase	NumDays	10.00	23.00
tblConstructionPhase	NumDays	200.00	44.00
tblConstructionPhase	NumDays	4.00	44.00
tblConstructionPhase	NumDays	10.00	66.00
tblConstructionPhase	NumDays	2.00	22.00
tblEnergyUse	NT24NG	4.45	0.00
tblEnergyUse	T24NG	13.65	0.00
tblGrading	AcresOfGrading	0.00	3.00

Getty Center Parking Improvement

tblGrading	AcresOfGrading	11.00	1.00
tblGrading	MaterialExported	0.00	1,400.00
tblGrading	MaterialExported	0.00	100.00
tblLandUse	LandUseSquareFeet	88,000.00	130,630.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	708
tblTripsAndVMT	HaulingTripLength	20.00	0.10
tblTripsAndVMT	HaulingTripLength	20.00	0.10
tblTripsAndVMT	HaulingTripLength	20.00	0.10
tblTripsAndVMT	HaulingTripLength	20.00	0.10
tblTripsAndVMT	HaulingTripLength	20.00	0.10
tblTripsAndVMT	HaulingTripNumber	175.00	500.00
tblTripsAndVMT	VendorTripLength	6.90	0.10
tblTripsAndVMT	VendorTripLength	6.90	0.10
tblTripsAndVMT	VendorTripLength	6.90	0.10
tblTripsAndVMT	VendorTripLength	6.90	0.10
tblTripsAndVMT	VendorTripLength	6.90	0.10
tblTripsAndVMT	VendorTripNumber	21.00	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.10
tblTripsAndVMT	WorkerTripLength	14.70	0.10
tblTripsAndVMT	WorkerTripLength	14.70	0.10
tblTripsAndVMT	WorkerTripLength	14.70	0.10
tblTripsAndVMT	WorkerTripLength	14.70	0.10
tblTripsAndVMT	WorkerTripNumber	55.00	0.00
tblTripsAndVMT	WorkerTripNumber	11.00	0.00
tblVehicleTrips	CC_TTP	64.10	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TTP	16.90	100.00
tblVehicleTrips	DV_TP	39.00	0.00
tblVehicleTrips	PB_TP	9.00	0.00
tblVehicleTrips	PR_TP	52.00	100.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblWater	IndoorWaterUseRate	13,602.92	1,177,500.00
tblWater	OutdoorWaterUseRate	8,337.28	1,001,107.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Getty Center Parking Improvement

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.3175	19.6433	15.9755	0.0275	6.1003	0.9349	7.0352	3.3193	0.8601	4.1794						
<b>Maximum</b>	<b>3.3175</b>	<b>19.6433</b>	<b>15.9755</b>	<b>0.0275</b>	<b>6.1003</b>	<b>0.9349</b>	<b>7.0352</b>	<b>3.3193</b>	<b>0.8601</b>	<b>4.1794</b>						

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.3175	19.6433	15.9755	0.0275	2.3806	0.9349	3.3155	1.2949	0.8601	2.1551						
<b>Maximum</b>	<b>3.3175</b>	<b>19.6433</b>	<b>15.9755</b>	<b>0.0275</b>	<b>2.3806</b>	<b>0.9349</b>	<b>3.3155</b>	<b>1.2949</b>	<b>0.8601</b>	<b>2.1551</b>						

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>60.98</b>	<b>0.00</b>	<b>52.87</b>	<b>60.99</b>	<b>0.00</b>	<b>48.44</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2022	6/30/2022	5	22	
2	Grading	Grading	7/1/2022	8/31/2022	5	44	
3	Paving	Paving	9/1/2022	12/1/2022	5	66	
4	Building Construction	Building Construction	10/1/2022	12/1/2022	5	44	
5	Architectural Coatings	Architectural Coating	11/1/2022	12/1/2022	5	23	

**Acres of Grading (Site Preparation Phase): 1**

**Acres of Grading (Grading Phase): 3**

**Acres of Paving: 1.98**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 300; Non-Residential Outdoor: 100; Striped Parking Area: 7,838**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Air Compressors	1	8.00	78	0.48
Site Preparation	Graders	1	8.00	187	0.41

Getty Center Parking Improvement

Site Preparation	Rubber Tired Dozers	0	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	0	6.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Paving	Air Compressors	1	8.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Forklifts	1	8.00	89	0.20
Paving	Generator Sets	1	8.00	84	0.74
Paving	Pavers	0	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Welders	1	8.00	46	0.45
Building Construction	Air Compressors	1	0.00	78	0.48
Architectural Coatings	Air Compressors	1	0.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	4	10.00	0.00	13.00	0.10	0.10	0.10	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	500.00	0.10	0.10	0.10	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	0.10	0.10	0.10	LD_Mix	HDT_Mix	HHDT
Building Construction	1	0.00	0.00	0.00	0.10	0.10	0.10	LD_Mix	HDT_Mix	HHDT
Architectural Coatings	1	0.00	0.00	0.00	0.10	0.10	0.10	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0487	0.0000	0.0487	5.2800e-003	0.0000	5.2800e-003						
Off-Road	1.0171	10.4868	8.6158	0.0168		0.4564	0.4564		0.4286	0.4286						
<b>Total</b>	<b>1.0171</b>	<b>10.4868</b>	<b>8.6158</b>	<b>0.0168</b>	<b>0.0487</b>	<b>0.4564</b>	<b>0.5051</b>	<b>5.2800e-003</b>	<b>0.4286</b>	<b>0.4339</b>						

**Unmitigated Construction Off-Site**



Getty Center Parking Improvement

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.8000e-004	0.0514	8.5700e-003	5.0000e-005	6.0000e-005	3.0000e-005	9.0000e-005	2.0000e-005	2.0000e-005	4.0000e-005						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	8.8500e-003	2.5800e-003	0.0396	3.0000e-005	8.6000e-004	7.0000e-005	9.3000e-004	2.4000e-004	6.0000e-005	3.0000e-004						
<b>Total</b>	<b>9.8300e-003</b>	<b>0.0540</b>	<b>0.0482</b>	<b>8.0000e-005</b>	<b>9.2000e-004</b>	<b>1.0000e-004</b>	<b>1.0200e-003</b>	<b>2.6000e-004</b>	<b>8.0000e-005</b>	<b>3.4000e-004</b>						

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0190	0.0000	0.0190	2.0600e-003	0.0000	2.0600e-003						
Off-Road	1.0171	10.4868	8.6158	0.0168		0.4564	0.4564		0.4286	0.4286						
<b>Total</b>	<b>1.0171</b>	<b>10.4868</b>	<b>8.6158</b>	<b>0.0168</b>	<b>0.0190</b>	<b>0.4564</b>	<b>0.4754</b>	<b>2.0600e-003</b>	<b>0.4286</b>	<b>0.4307</b>						

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.8000e-004	0.0514	8.5700e-003	5.0000e-005	6.0000e-005	3.0000e-005	9.0000e-005	2.0000e-005	2.0000e-005	4.0000e-005						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	8.8500e-003	2.5800e-003	0.0396	3.0000e-005	8.6000e-004	7.0000e-005	9.3000e-004	2.4000e-004	6.0000e-005	3.0000e-004						
<b>Total</b>	<b>9.8300e-003</b>	<b>0.0540</b>	<b>0.0482</b>	<b>8.0000e-005</b>	<b>9.2000e-004</b>	<b>1.0000e-004</b>	<b>1.0200e-003</b>	<b>2.6000e-004</b>	<b>8.0000e-005</b>	<b>3.4000e-004</b>						

**3.3 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0980	0.0000	6.0980	3.3186	0.0000	3.3186						
Off-Road	1.8595	18.6509	13.2053	0.0264		0.9343	0.9343		0.8596	0.8596						
<b>Total</b>	<b>1.8595</b>	<b>18.6509</b>	<b>13.2053</b>	<b>0.0264</b>	<b>6.0980</b>	<b>0.9343</b>	<b>7.0323</b>	<b>3.3186</b>	<b>0.8596</b>	<b>4.1782</b>						

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0189	0.9890	0.1649	1.0500e-003	1.2300e-003	4.8000e-004	1.7100e-003	3.6000e-004	4.6000e-004	8.2000e-004						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0115	3.3500e-003	0.0515	4.0000e-005	1.1200e-003	9.0000e-005	1.2000e-003	3.1000e-004	8.0000e-005	3.9000e-004						
<b>Total</b>	<b>0.0304</b>	<b>0.9924</b>	<b>0.2164</b>	<b>1.0900e-003</b>	<b>2.3500e-003</b>	<b>5.7000e-004</b>	<b>2.9100e-003</b>	<b>6.7000e-004</b>	<b>5.4000e-004</b>	<b>1.2100e-003</b>						

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3782	0.0000	2.3782	1.2943	0.0000	1.2943						
Off-Road	1.8595	18.6509	13.2053	0.0264		0.9343	0.9343		0.8596	0.8596						
<b>Total</b>	<b>1.8595</b>	<b>18.6509</b>	<b>13.2053</b>	<b>0.0264</b>	<b>2.3782</b>	<b>0.9343</b>	<b>3.3126</b>	<b>1.2943</b>	<b>0.8596</b>	<b>2.1538</b>						

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0189	0.9890	0.1649	1.0500e-003	1.2300e-003	4.8000e-004	1.7100e-003	3.6000e-004	4.6000e-004	8.2000e-004						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0115	3.3500e-003	0.0515	4.0000e-005	1.1200e-003	9.0000e-005	1.2000e-003	3.1000e-004	8.0000e-005	3.9000e-004						
<b>Total</b>	<b>0.0304</b>	<b>0.9924</b>	<b>0.2164</b>	<b>1.0900e-003</b>	<b>2.3500e-003</b>	<b>5.7000e-004</b>	<b>2.9100e-003</b>	<b>6.7000e-004</b>	<b>5.4000e-004</b>	<b>1.2100e-003</b>						

**3.4 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5610	12.8314	15.8964	0.0251		0.6783	0.6783		0.6508	0.6508						

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Paving	0.0786					0.0000	0.0000		0.0000	0.0000							
<b>Total</b>	<b>1.6396</b>	<b>12.8314</b>	<b>15.8964</b>	<b>0.0251</b>		<b>0.6783</b>	<b>0.6783</b>		<b>0.6508</b>	<b>0.6508</b>							

**Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0177	5.1600e-003	0.0792	6.0000e-005	4.3600e-003	1.3000e-004	4.4900e-003	1.1300e-003	1.2000e-004	1.2500e-003						
<b>Total</b>	<b>0.0177</b>	<b>5.1600e-003</b>	<b>0.0792</b>	<b>6.0000e-005</b>	<b>4.3600e-003</b>	<b>1.3000e-004</b>	<b>4.4900e-003</b>	<b>1.1300e-003</b>	<b>1.2000e-004</b>	<b>1.2500e-003</b>						

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5610	12.8314	15.8964	0.0251		0.6783	0.6783		0.6508	0.6508						
Paving	0.0786					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>1.6396</b>	<b>12.8314</b>	<b>15.8964</b>	<b>0.0251</b>		<b>0.6783</b>	<b>0.6783</b>		<b>0.6508</b>	<b>0.6508</b>						

**Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0177	5.1600e-003	0.0792	6.0000e-005	4.3600e-003	1.3000e-004	4.4900e-003	1.1300e-003	1.2000e-004	1.2500e-003						
<b>Total</b>	<b>0.0177</b>	<b>5.1600e-003</b>	<b>0.0792</b>	<b>6.0000e-005</b>	<b>4.3600e-003</b>	<b>1.3000e-004</b>	<b>4.4900e-003</b>	<b>1.1300e-003</b>	<b>1.2000e-004</b>	<b>1.2500e-003</b>						

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Getty Center Parking Improvement

Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>						

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>						

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>						

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>						

**3.6 Architectural Coatings - 2022**

**Unmitigated Construction On-Site**

Getty Center Parking Improvement

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.6601						0.0000	0.0000		0.0000						
Off-Road	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000						
<b>Total</b>	<b>1.6601</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>						

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>						

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.6601						0.0000	0.0000		0.0000						
Off-Road	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000						
<b>Total</b>	<b>1.6601</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>						

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>						

# Getty Center Parking Improvement Project

Draft MND

## Appendix IS-1-2-Greenhouse Gas Emissions Worksheets and Modeling Output Files

- Appendix IS-1-2: Greenhouse Gas Worksheets and Modeling Output Files
  - GHG Emissions Summary
  - Parking Lot Lighting Energy Calculations
  - Landscaping Water Usage Calculations
  - Project Construction and Operations (Buildout Year)

## Getty Center Parking

### Operational Emissions Summary (GHG)

CalEEMod Output Summary	Project with PDFs	Project with no PDFs
<b>Buildout (Buildout Year)<sup>a</sup></b>		
Area	0	0
Energy (Lighting)	315	315
Mobile	-	-
Electric Vehicle Charging Credit	-	-
Emergency Generators	-	-
Solid Waste	0	0
Water/Wastewater	1	1
Construction	7	7
Total	323	323

<sup>a</sup> Please refer to CalEEMod outputs for Future uses

## Getty Parking

### Parking Lot Lighting Energy Calculations

#### CalEEMod Default

Parking Spaces	220 spaces
Parking Lot Square Footage	130.63 KSF
Lighting Electricity Usage	0.35 kWh/SF-year
Annual Electricity Usage	45720.5 kWh

#### Project LED Lighting

No. of Light Poles	67 poles	from Project Description
LED Rating per Pole	28 watts	
Hours per Day	12 hours	
Days per Year	365 days	
Annual Electricity Usage	8216.88 kWh	
<b>Lighting Electricity Usage</b>	<b>0.062902 kWh/SF-year</b>	<b>CalEEMod Input Value</b>

Reduction (%)	-82%
---------------	------



## Getty Parking

### Water Usage Calculations

#### Indoor Water Usage

Toilet	3	gallons per flush
Urinal	1.6	gallons per flush
Faucet	0.11	gallons per flush
Total Water Usage per Visitor	4.71	gallons

Daily Visitors	1,000	
Days per Year	250	
Indoor Annual Water Usage	<b>1,177,500</b>	gallons

#### Outdoor Water Usage

Landscaped Area	0.84022	acres
City Park Water Usage Rate	1,191,481	gallons/acre/year

Outdoor Annual Water Usage	<b>1,001,107</b>	gallons
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Getty Parking Improvement Project  
GHG Emissions

CalEEMod Version: CalEEMod.2016.3.2

Page 1 of 1

Date: 6/10/2021 3:52 PM

Getty Center Parking - South Coast Air Basin, Annual

**Getty Center Parking**  
**South Coast Air Basin, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	220.00	Space	1.98	130,630.00	0
Health Club	0.23	1000sqft	0.01	230.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	11	<b>Operational Year</b>		2022	
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	708	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - LADWP SB100 RPS (Year 2022) - 708 lbs/MWH

Land Use - see assumptions

Construction Phase - see assumptions

Off-road Equipment - No equipment

Off-road Equipment - No equipment

Off-road Equipment - see assumptions

Off-road Equipment - see assumptions

Off-road Equipment - see assumptions

Trips and VMT - 2,100 CY of Export

Energy Use - No natural gas would be used during operations

Water And Wastewater - Water Usage calculated from Water Infrastructure Memo

Solid Waste -

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	115.00	100.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	345.00	300.00
tblAreaCoating	Area_Nonresidential_Exterior	115	0
tblAreaCoating	Area_Nonresidential_Interior	345	0
tblAreaCoating	Area_Parking	7838	5280
tblConstructionPhase	NumDays	10.00	23.00
tblConstructionPhase	NumDays	200.00	44.00
tblConstructionPhase	NumDays	4.00	44.00
tblConstructionPhase	NumDays	10.00	66.00
tblConstructionPhase	NumDays	2.00	22.00

**Getty Parking Improvement Project  
GHG Emissions**

tblEnergyUse	LightingElect	0.35	0.06
tblEnergyUse	NT24E	0.00	7.40
tblEnergyUse	NT24NG	4.45	0.00
tblEnergyUse	T24NG	13.65	0.00
tblGrading	AcresOfGrading	0.00	3.00
tblGrading	AcresOfGrading	11.00	1.00
tblGrading	MaterialExported	0.00	1,400.00
tblGrading	MaterialExported	0.00	100.00
tblLandUse	LandUseSquareFeet	88,000.00	130,630.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	708
tblTripsAndVMT	HaulingTripLength	20.00	22.00
tblTripsAndVMT	HaulingTripLength	20.00	22.00
tblTripsAndVMT	HaulingTripNumber	175.00	500.00
tblTripsAndVMT	VendorTripLength	6.90	13.80
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	21.00	0.00
tblTripsAndVMT	WorkerTripNumber	55.00	0.00
tblTripsAndVMT	WorkerTripNumber	11.00	0.00
tblVehicleTrips	CC_TTP	64.10	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TTP	16.90	100.00
tblVehicleTrips	DV_TP	39.00	0.00
tblVehicleTrips	PB_TP	9.00	0.00
tblVehicleTrips	PR_TP	52.00	100.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblWater	IndoorWaterUseRate	13,602.92	8,395.00
tblWater	OutdoorWaterUseRate	8,337.28	156,038.00

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										Mt/yr					

Getty Parking Improvement Project  
GHG Emissions

2022																		197.5152
<b>Maximum</b>																		<b>197.5152</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Year	tons/yr										MT/yr						
2022																	197.5150
<b>Maximum</b>																	<b>197.5150</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area																5.8300e-003
Energy																314.8878
Mobile																0.0000
Waste																0.6588
Water																0.6054
<b>Total</b>																<b>316.1578</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area																5.8300e-003

Getty Parking Improvement Project  
GHG Emissions

Energy																		314.8711
Mobile																		0.0000
Waste																		0.1555
Water																		0.6054
<b>Total</b>																		<b>315.6378</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	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	0.16

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2022	6/30/2022	5	22	
2	Grading	Grading	7/1/2022	8/31/2022	5	44	
3	Paving	Paving	9/1/2022	12/1/2022	5	66	
4	Building Construction	Building Construction	10/1/2022	12/1/2022	5	44	
5	Architectural Coatings	Architectural Coating	11/1/2022	12/1/2022	5	23	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 3

Acres of Paving: 1.98

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 300; Non-Residential Outdoor: 100; Striped Parking Area: 7,838

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Air Compressors	1	8.00	78	0.48
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	0	6.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Paving	Air Compressors	1	8.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Forklifts	1	8.00	89	0.20
Paving	Generator Sets	1	8.00	84	0.74
Paving	Pavers	0	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Welders	1	8.00	46	0.45

**Getty Parking Improvement Project  
GHG Emissions**

Building Construction	Air Compressors	1	0.00	78	0.48
Architectural Coatings	Air Compressors	1	0.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	4	10.00	0.00	13.00	14.70	6.90	22.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	500.00	14.70	6.90	22.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	20.00	0.00	14.70	13.80	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coatings	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust																0.0000
Off-Road																16.2627
<b>Total</b>																<b>16.2627</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling																0.5249
Vendor																0.0000
Worker																1.0153
<b>Total</b>																<b>1.5402</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Getty Parking Improvement Project  
GHG Emissions

Fugitive Dust																	0.0000
Off-Road																	16.2627
<b>Total</b>																	<b>16.2627</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling																	0.5249
Vendor																	0.0000
Worker																	1.0153
<b>Total</b>																	<b>1.5402</b>

**3.3 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Fugitive Dust																	0.0000
Off-Road																	51.5239
<b>Total</b>																	<b>51.5239</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling																	20.1892
Vendor																	0.0000
Worker																	2.6397
<b>Total</b>																	<b>22.8289</b>

**Mitigated Construction On-Site**

Getty Parking Improvement Project  
GHG Emissions

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Fugitive Dust																	0.0000
Off-Road																	51.5239
<b>Total</b>																	<b>51.5239</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling																	20.1892
Vendor																	0.0000
Worker																	2.6397
<b>Total</b>																	<b>22.8289</b>

**3.4 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road																	70.8046
Paving																	0.0000
<b>Total</b>																	<b>70.8046</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling																	0.0000
Vendor																	28.4632
Worker																	6.0916
<b>Total</b>																	<b>34.5548</b>



Getty Parking Improvement Project  
GHG Emissions

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road																70.8046
Paving																0.0000
<b>Total</b>																<b>70.8046</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling																0.0000
Vendor																28.4632
Worker																6.0916
<b>Total</b>																<b>34.5548</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road																0.0000
<b>Total</b>																<b>0.0000</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling																0.0000
Vendor																0.0000
Worker																0.0000

Getty Parking Improvement Project  
GHG Emissions

Total																		0.0000
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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road																	0.0000
<b>Total</b>																	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling																	0.0000
Vendor																	0.0000
Worker																	0.0000
<b>Total</b>																	<b>0.0000</b>

**3.6 Architectural Coatings - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Archit. Coating																	0.0000
Off-Road																	0.0000
<b>Total</b>																	<b>0.0000</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling																	0.0000

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Vendor																		0.0000
Worker																		0.0000
<b>Total</b>																		<b>0.0000</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Archit. Coating																	0.0000
Off-Road																	0.0000
<b>Total</b>																	<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling																	0.0000
Vendor																	0.0000
Worker																	0.0000
<b>Total</b>																	<b>0.0000</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Mitigated																	0.0000
Unmitigated																	0.0000

**4.2 Trip Summary Information**

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Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Health Club	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Health Club	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Health Club	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
Parking Lot	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated																314.8711
Electricity Unmitigated																314.8878
NaturalGas Mitigated																0.0000
NaturalGas Unmitigated																0.0000

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr	tons/yr										MT/yr					
Health Club	0																0.0000
Parking Lot	0																0.0000
<b>Total</b>																	<b>0.0000</b>

**Mitigated**

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
Health Club	0																	0.0000
Parking Lot	0																	0.0000
<b>Total</b>																		<b>0.0000</b>

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Health Club	2553				0.8228
Parking Lot	974500				314.0650
<b>Total</b>					<b>314.8878</b>

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Health Club	2501.25				0.8061
Parking Lot	974500				314.0650
<b>Total</b>					<b>314.8711</b>

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Mitigated																	5.8300e-003
Unmitigated																	5.8300e-003

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6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating																0.0000
Consumer Products																0.0000
Landscaping																5.8300e-003
<b>Total</b>																<b>5.8300e-003</b>

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating																0.0000
Consumer Products																0.0000
Landscaping																5.8300e-003
<b>Total</b>																<b>5.8300e-003</b>

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				0.6054
Unmitigated				0.6054

7.2 Water by Land Use

Unmitigated

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	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Health Club	0.008395 / 0.156038				0.6054
Parking Lot	0 / 0				0.0000
<b>Total</b>					<b>0.6054</b>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Health Club	0.008395 / 0.156038				0.6054
Parking Lot	0 / 0				0.0000
<b>Total</b>					<b>0.6054</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				0.1555
Unmitigated				0.6588

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Health Club	1.31				0.6588
Parking Lot	0				0.0000
<b>Total</b>					<b>0.6588</b>

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**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Health Club	0.30916				0.1555
Parking Lot	0				0.0000
<b>Total</b>					<b>0.1555</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**