

901 S Brand BMW Inventory Structure - South Coast AQMD Air District, Winter

901 S Brand BMW Inventory Structure
South Coast AQMD Air District, Winter

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Automobile Care Center	27.50	1000sqft	1.00	27,500.00	0
Unenclosed Parking with Elevator	171.14	1000sqft	0.60	171,140.00	0
Parking Lot	13.72	1000sqft	0.31	13,720.00	0
	0.00		0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	12			Operational Year	2023
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MW hr)	1115.33	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - The project site is 82,550 SF (1.89 acre) and enveloped with two buildings (18,365 SF and 9,192 SF; 27,500 SF total combined) utilized as vehicle repair shops. The new project is to construct a five-level parking structure for vehicle inventory

Grading - 1,750 CY of grading (all export)

Demolition - Demolition will include an at-grade asphalt parking lot (approximately 155' x 220') and a 561 square-foot building.

Construction Phase - Site Preparation and grading will occur over 5 and 6 days, respectfully.

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	4.00	6.00
tblConstructionPhase	NumDays	2.00	5.00
tblConstructionPhase	PhaseEndDate	7/10/2023	7/17/2023
tblConstructionPhase	PhaseEndDate	6/12/2023	6/19/2023
tblConstructionPhase	PhaseEndDate	9/5/2022	9/12/2022
tblConstructionPhase	PhaseEndDate	6/26/2023	7/3/2023
tblConstructionPhase	PhaseEndDate	8/30/2022	9/2/2022
tblConstructionPhase	PhaseStartDate	6/27/2023	7/4/2023
tblConstructionPhase	PhaseStartDate	9/6/2022	9/13/2022
tblConstructionPhase	PhaseStartDate	8/31/2022	9/3/2022
tblConstructionPhase	PhaseStartDate	6/13/2023	6/20/2023
tblGrading	AcresOfGrading	2.25	1.50
tblGrading	AcresOfGrading	2.50	1.00
tblGrading	MaterialExported	0.00	1,750.00
tblLandUse	LotAcreage	0.63	1.00
tblLandUse	LotAcreage	3.93	0.60

2.0 Emissions Summary

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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					
2022	2.1179	20.6498	16.2519	0.0420	5.5709	0.8425	6.1940	2.9431	0.7873	3.5164	0.0000	4,380.9937	4,380.9937	0.6499	0.0000	4,397.2408
2023	30.8948	14.3011	15.8290	0.0387	1.1853	0.5240	1.7093	0.3194	0.5057	0.8251	0.0000	3,718.7684	3,718.7684	0.4143	0.0000	3,729.0420
Maximum	30.8948	20.6498	16.2519	0.0420	5.5709	0.8425	6.1940	2.9431	0.7873	3.5164	0.0000	4,380.9937	4,380.9937	0.6499	0.0000	4,397.2408

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	2.1179	20.6498	16.2519	0.0420	5.5709	0.8425	6.1940	2.9431	0.7873	3.5164	0.0000	4,380.9937	4,380.9937	0.6499	0.0000	4,397.2408
2023	30.8948	14.3011	15.8290	0.0387	1.1853	0.5240	1.7093	0.3194	0.5057	0.8251	0.0000	3,718.7684	3,718.7684	0.4143	0.0000	3,729.0420
Maximum	30.8948	20.6498	16.2519	0.0420	5.5709	0.8425	6.1940	2.9431	0.7873	3.5164	0.0000	4,380.9937	4,380.9937	0.6499	0.0000	4,397.2408

[illegible]

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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	0.6959	2.0000e-004	0.0217	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0465	0.0465	1.2000e-004		0.0495
Energy	0.0147	0.1337	0.1123	8.0000e-004		0.0102	0.0102		0.0102	0.0102		160.4351	160.4351	3.0800e-003	2.9400e-003	161.3885
Mobile	0.7278	3.1844	6.6004	0.0225	1.8580	0.0172	1.8752	0.4971	0.0160	0.5131		2,299.7121	2,299.7121	0.1251		2,302.8394
Total	1.4384	3.3183	6.7344	0.0233	1.8580	0.0274	1.8854	0.4971	0.0262	0.5233		2,460.1937	2,460.1937	0.1283	2.9400e-003	2,464.2774

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	0.6959	2.0000e-004	0.0217	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0465	0.0465	1.2000e-004		0.0495
Energy	0.0147	0.1337	0.1123	8.0000e-004		0.0102	0.0102		0.0102	0.0102		160.4351	160.4351	3.0800e-003	2.9400e-003	161.3885
Mobile	0.7278	3.1844	6.6004	0.0225	1.8580	0.0172	1.8752	0.4971	0.0160	0.5131		2,299.7121	2,299.7121	0.1251		2,302.8394
Total	1.4384	3.3183	6.7344	0.0233	1.8580	0.0274	1.8854	0.4971	0.0262	0.5233		2,460.1937	2,460.1937	0.1283	2.9400e-003	2,464.2774

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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	Demolition	Demolition	8/1/2022	8/26/2022	5	20	
2	Site Preparation	Site Preparation	8/27/2022	9/2/2022	5	5	
3	Grading	Grading	9/3/2022	9/12/2022	5	6	
4	Building Construction	Building Construction	9/13/2022	6/19/2023	5	200	
5	Paving	Paving	6/20/2023	7/3/2023	5	10	
6	Architectural Coating	Architectural Coating	7/4/2023	7/17/2023	5	10	

Acres of Grading (Site Preparation Phase): 1**Acres of Grading (Grading Phase): 1.5****Acres of Paving: 0.91****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 41,250; Non-Residential Outdoor: 13,750; Striped Parking Area: 11,092 (Architectural Coating – sqft)****OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Welders	3	8.00	46	0.45

Trips and VMT

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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
Demolition	5	13.00	0.00	105.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	219.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	86.00	35.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	17.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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					1.1395	0.0000	1.1395	0.1725	0.0000	0.1725			0.0000			0.0000
Off-Road	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829		2,323.4168	2,323.4168	0.5921		2,338.2191
Total	1.6889	16.6217	13.9605	0.0241	1.1395	0.8379	1.9774	0.1725	0.7829	0.9554		2,323.4168	2,323.4168	0.5921		2,338.2191

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3.2 Demolition - 2022**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	0.0372	1.2404	0.2977	3.9000e-003	0.0917	3.6000e-003	0.0953	0.0251	3.4400e-003	0.0286		422.3432	422.3432	0.0297		423.0857
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.4062	1.3000e-003	0.1453	1.0400e-003	0.1464	0.0385	9.6000e-004	0.0395		129.8098	129.8098	3.2600e-003		129.8912
Total	0.0936	1.2756	0.7039	5.2000e-003	0.2371	4.6400e-003	0.2417	0.0637	4.4000e-003	0.0681		552.1530	552.1530	0.0330		552.9769

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					1.1395	0.0000	1.1395	0.1725	0.0000	0.1725			0.0000			0.0000
Off-Road	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829	0.0000	2,323.4168	2,323.4168	0.5921		2,338.2191
Total	1.6889	16.6217	13.9605	0.0241	1.1395	0.8379	1.9774	0.1725	0.7829	0.9554	0.0000	2,323.4168	2,323.4168	0.5921		2,338.2191

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3.2 Demolition - 2022**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	0.0372	1.2404	0.2977	3.9000e-003	0.0917	3.6000e-003	0.0953	0.0251	3.4400e-003	0.0286		422.3432	422.3432	0.0297		423.0857
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.4062	1.3000e-003	0.1453	1.0400e-003	0.1464	0.0385	9.6000e-004	0.0395		129.8098	129.8098	3.2600e-003		129.8912
Total	0.0936	1.2756	0.7039	5.2000e-003	0.2371	4.6400e-003	0.2417	0.0637	4.4000e-003	0.0681		552.1530	552.1530	0.0330		552.9769

3.3 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					5.4814	0.0000	5.4814	2.9194	0.0000	2.9194			0.0000			0.0000
Off-Road	1.3122	14.6277	7.0939	0.0172		0.6225	0.6225		0.5727	0.5727		1,666.1738	1,666.1738	0.5389		1,679.6457
Total	1.3122	14.6277	7.0939	0.0172	5.4814	0.6225	6.1040	2.9194	0.5727	3.4921		1,666.1738	1,666.1738	0.5389		1,679.6457

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3.3 Site Preparation - 2022**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		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		0.0000	0.0000	0.0000		0.0000
Worker	0.0347	0.0217	0.2500	8.0000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		79.8829	79.8829	2.0100e-003		79.9331
Total	0.0347	0.0217	0.2500	8.0000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		79.8829	79.8829	2.0100e-003		79.9331

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					5.4814	0.0000	5.4814	2.9194	0.0000	2.9194			0.0000			0.0000
Off-Road	1.3122	14.6277	7.0939	0.0172		0.6225	0.6225		0.5727	0.5727	0.0000	1,666.1738	1,666.1738	0.5389		1,679.6457
Total	1.3122	14.6277	7.0939	0.0172	5.4814	0.6225	6.1040	2.9194	0.5727	3.4921	0.0000	1,666.1738	1,666.1738	0.5389		1,679.6457

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3.3 Site Preparation - 2022**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		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		0.0000	0.0000	0.0000		0.0000
Worker	0.0347	0.0217	0.2500	8.0000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		79.8829	79.8829	2.0100e-003		79.9331
Total	0.0347	0.0217	0.2500	8.0000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		79.8829	79.8829	2.0100e-003		79.9331

3.4 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					4.8147	0.0000	4.8147	2.5163	0.0000	2.5163			0.0000			0.0000
Off-Road	1.0832	12.0046	5.9360	0.0141		0.5173	0.5173		0.4759	0.4759		1,364.8198	1,364.8198	0.4414		1,375.8551
Total	1.0832	12.0046	5.9360	0.0141	4.8147	0.5173	5.3320	2.5163	0.4759	2.9922		1,364.8198	1,364.8198	0.4414		1,375.8551

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3.4 Grading - 2022**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	0.2587	8.6235	2.0694	0.0271	0.6378	0.0250	0.6628	0.1748	0.0239	0.1987		2,936.2910	2,936.2910	0.2065		2,941.4526
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0347	0.0217	0.2500	8.0000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		79.8829	79.8829	2.0100e-003		79.9331
Total	0.2934	8.6452	2.3194	0.0279	0.7272	0.0256	0.7529	0.1985	0.0245	0.2230		3,016.1739	3,016.1739	0.2085		3,021.3857

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					4.8147	0.0000	4.8147	2.5163	0.0000	2.5163			0.0000			0.0000
Off-Road	1.0832	12.0046	5.9360	0.0141		0.5173	0.5173		0.4759	0.4759	0.0000	1,364.8198	1,364.8198	0.4414		1,375.8551
Total	1.0832	12.0046	5.9360	0.0141	4.8147	0.5173	5.3320	2.5163	0.4759	2.9922	0.0000	1,364.8198	1,364.8198	0.4414		1,375.8551

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3.4 Grading - 2022**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	0.2587	8.6235	2.0694	0.0271	0.6378	0.0250	0.6628	0.1748	0.0239	0.1987		2,936.2910	2,936.2910	0.2065		2,941.4526
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0347	0.0217	0.2500	8.0000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		79.8829	79.8829	2.0100e-003		79.9331
Total	0.2934	8.6452	2.3194	0.0279	0.7272	0.0256	0.7529	0.1985	0.0245	0.2230		3,016.1739	3,016.1739	0.2085		3,021.3857

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	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581

901 S Brand BMW Inventory Structure - South Coast AQMD Air District, Winter

3.5 Building Construction - 2022**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		0.0000	0.0000	0.0000		0.0000
Vendor	0.0962	3.1560	0.8382	8.5900e-003	0.2240	6.0200e-003	0.2300	0.0645	5.7500e-003	0.0702		917.6798	917.6798	0.0596		919.1697
Worker	0.3730	0.2328	2.6873	8.6100e-003	0.9613	6.8700e-003	0.9682	0.2549	6.3300e-003	0.2613		858.7414	858.7414	0.0216		859.2803
Total	0.4692	3.3888	3.5255	0.0172	1.1853	0.0129	1.1982	0.3194	0.0121	0.3315		1,776.4212	1,776.4212	0.0812		1,778.4500

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	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581

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3.5 Building Construction - 2022**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		0.0000	0.0000	0.0000		0.0000
Vendor	0.0962	3.1560	0.8382	8.5900e-003	0.2240	6.0200e-003	0.2300	0.0645	5.7500e-003	0.0702		917.6798	917.6798	0.0596		919.1697
Worker	0.3730	0.2328	2.6873	8.6100e-003	0.9613	6.8700e-003	0.9682	0.2549	6.3300e-003	0.2613		858.7414	858.7414	0.0216		859.2803
Total	0.4692	3.3888	3.5255	0.0172	1.1853	0.0129	1.1982	0.3194	0.0121	0.3315		1,776.4212	1,776.4212	0.0812		1,778.4500

3.5 Building Construction - 2023**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	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858

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3.5 Building Construction - 2023**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		0.0000	0.0000	0.0000		0.0000
Vendor	0.0718	2.3802	0.7412	8.3200e-003	0.2240	2.8200e-003	0.2268	0.0645	2.7000e-003	0.0672		890.2658	890.2658	0.0516		891.5558
Worker	0.3518	0.2105	2.4768	8.2900e-003	0.9613	6.6900e-003	0.9680	0.2549	6.1600e-003	0.2611		826.7149	826.7149	0.0194		827.2005
Total	0.4236	2.5907	3.2179	0.0166	1.1853	9.5100e-003	1.1948	0.3194	8.8600e-003	0.3283		1,716.9807	1,716.9807	0.0710		1,718.7562

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	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858

901 S Brand BMW Inventory Structure - South Coast AQMD Air District, Winter

3.5 Building Construction - 2023**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		0.0000	0.0000	0.0000		0.0000
Vendor	0.0718	2.3802	0.7412	8.3200e-003	0.2240	2.8200e-003	0.2268	0.0645	2.7000e-003	0.0672		890.2658	890.2658	0.0516		891.5558
Worker	0.3518	0.2105	2.4768	8.2900e-003	0.9613	6.6900e-003	0.9680	0.2549	6.1600e-003	0.2611		826.7149	826.7149	0.0194		827.2005
Total	0.4236	2.5907	3.2179	0.0166	1.1853	9.5100e-003	1.1948	0.3194	8.8600e-003	0.3283		1,716.9807	1,716.9807	0.0710		1,718.7562

3.6 Paving - 2023**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	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846		1,297.6880	1,297.6880	0.4114		1,307.9725
Paving	0.0812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7258	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846		1,297.6880	1,297.6880	0.4114		1,307.9725

901 S Brand BMW Inventory Structure - South Coast AQMD Air District, Winter

3.6 Paving - 2023**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		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		0.0000	0.0000	0.0000		0.0000
Worker	0.0532	0.0318	0.3744	1.2500e-003	0.1453	1.0100e-003	0.1463	0.0385	9.3000e-004	0.0395		124.9685	124.9685	2.9400e-003		125.0419
Total	0.0532	0.0318	0.3744	1.2500e-003	0.1453	1.0100e-003	0.1463	0.0385	9.3000e-004	0.0395		124.9685	124.9685	2.9400e-003		125.0419

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	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846	0.0000	1,297.6880	1,297.6880	0.4114		1,307.9725
Paving	0.0812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7258	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846	0.0000	1,297.6880	1,297.6880	0.4114		1,307.9725

901 S Brand BMW Inventory Structure - South Coast AQMD Air District, Winter

3.6 Paving - 2023**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		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		0.0000	0.0000	0.0000		0.0000
Worker	0.0532	0.0318	0.3744	1.2500e-003	0.1453	1.0100e-003	0.1463	0.0385	9.3000e-004	0.0395		124.9685	124.9685	2.9400e-003		125.0419
Total	0.0532	0.0318	0.3744	1.2500e-003	0.1453	1.0100e-003	0.1463	0.0385	9.3000e-004	0.0395		124.9685	124.9685	2.9400e-003		125.0419

3.7 Architectural Coating - 2023**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	30.6336					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	30.8253	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

901 S Brand BMW Inventory Structure - South Coast AQMD Air District, Winter

3.7 Architectural Coating - 2023**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		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		0.0000	0.0000	0.0000		0.0000
Worker	0.0695	0.0416	0.4896	1.6400e-003	0.1900	1.3200e-003	0.1913	0.0504	1.2200e-003	0.0516		163.4204	163.4204	3.8400e-003		163.5164
Total	0.0695	0.0416	0.4896	1.6400e-003	0.1900	1.3200e-003	0.1913	0.0504	1.2200e-003	0.0516		163.4204	163.4204	3.8400e-003		163.5164

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	30.6336					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	30.8253	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

901 S Brand BMW Inventory Structure - South Coast AQMD Air District, Winter

3.7 Architectural Coating - 2023**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		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		0.0000	0.0000	0.0000		0.0000
Worker	0.0695	0.0416	0.4896	1.6400e-003	0.1900	1.3200e-003	0.1913	0.0504	1.2200e-003	0.0516		163.4204	163.4204	3.8400e-003		163.5164
Total	0.0695	0.0416	0.4896	1.6400e-003	0.1900	1.3200e-003	0.1913	0.0504	1.2200e-003	0.0516		163.4204	163.4204	3.8400e-003		163.5164

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

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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					
Mitigated	0.7278	3.1844	6.6004	0.0225	1.8580	0.0172	1.8752	0.4971	0.0160	0.5131		2,299.712 1	2,299.712 1	0.1251		2,302.839 4
Unmitigated	0.7278	3.1844	6.6004	0.0225	1.8580	0.0172	1.8752	0.4971	0.0160	0.5131		2,299.712 1	2,299.712 1	0.1251		2,302.839 4

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	652.30	652.30	326.70	811,481	811,481
Parking Lot	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	652.30	652.30	326.70	811,481	811,481

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-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	16.60	8.40	6.90	33.00	48.00	19.00	21	51	28
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Automobile Care Center	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Parking Lot	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Unenclosed Parking with Elevator	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	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	0.0147	0.1337	0.1123	8.0000e-004		0.0102	0.0102		0.0102	0.0102		160.4351	160.4351	3.0800e-003	2.9400e-003	161.3885
NaturalGas Unmitigated	0.0147	0.1337	0.1123	8.0000e-004		0.0102	0.0102		0.0102	0.0102		160.4351	160.4351	3.0800e-003	2.9400e-003	161.3885

901 S Brand BMW Inventory Structure - South Coast AQMD Air District, Winter

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					
Automobile Care Center	1363.7	0.0147	0.1337	0.1123	8.0000e-004		0.0102	0.0102		0.0102	0.0102		160.4351	160.4351	3.0800e-003	2.9400e-003	161.3885
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0147	0.1337	0.1123	8.0000e-004		0.0102	0.0102		0.0102	0.0102		160.4351	160.4351	3.0800e-003	2.9400e-003	161.3885

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					
Automobile Care Center	1.3637	0.0147	0.1337	0.1123	8.0000e-004		0.0102	0.0102		0.0102	0.0102		160.4351	160.4351	3.0800e-003	2.9400e-003	161.3885
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0147	0.1337	0.1123	8.0000e-004		0.0102	0.0102		0.0102	0.0102		160.4351	160.4351	3.0800e-003	2.9400e-003	161.3885

901 S Brand BMW Inventory Structure - South Coast AQMD Air District, Winter

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	0.6959	2.0000e-004	0.0217	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0465	0.0465	1.2000e-004		0.0495
Unmitigated	0.6959	2.0000e-004	0.0217	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0465	0.0465	1.2000e-004		0.0495

901 S Brand BMW Inventory Structure - South Coast AQMD Air District, Winter

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	0.0839					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6100					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0100e-003	2.0000e-004	0.0217	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0465	0.0465	1.2000e-004		0.0495
Total	0.6959	2.0000e-004	0.0217	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0465	0.0465	1.2000e-004		0.0495

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	0.0839					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6100					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0100e-003	2.0000e-004	0.0217	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0465	0.0465	1.2000e-004		0.0495
Total	0.6959	2.0000e-004	0.0217	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0465	0.0465	1.2000e-004		0.0495

7.0 Water Detail

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7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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
