Appendix 1D

Greenhouse Gas Modeling Results

CDCR Single Facility

Southern California, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Hospital	257.92	1000sqft

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**		**Utility Company**	Southern California Edison
Climate Zone	10		2.2		
		Precipitation Freq (Days)			
			32		

1.3 User Entered Comments

Project Characteristics -

Land Use - Disturbance area - 54.68 acres

Construction Phase - 26 months construction schedule

Off-road Equipment - Equipment list from CDCR
Load factors adjusted based on ARB off-road diesel regulation

Off-road Equipment - Equipment information from client

Off-road Equipment - Equipment list from CDCR
Load factors adjusted based on ARB off-road diesel regulation
Off-road Equipment - Equipment list from CDCR
Load factors adjusted based on ARB off-road diesel regulation
Off-road Equipment - ARB Off-Road Diesel Regulation

Off-road Equipment - Equipment list from CDCR
Load factors adjusted based on ARB off-road diesel regulation
Trips and VMT - Based on data from other CDCR projects

Grading - Data from CDCR

Vehicle Trips - Based on trip generation data

Landscape Equipment - Southern California

Water And Wastewater - Utility Data

Solid Waste - Utility Section

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					
2014	1.18	7.54	7.26	0.01	2.09	0.36	2.45	0.27	0.36	0.62	0.00	1,350.38	1,350.38	0.10	0.00	1,352.45
2015	1.56	7.38	11.50	0.02	1.71	0.41	2.12	0.07	0.41	0.48	0.00	2,072.11	2,072.11	0.14	0.00	2,074.98
2016	4.10	5.37	7.89	0.02	1.12	0.34	1.46	0.05	0.34	0.39	0.00	1,422.18	1,422.18	0.10	0.00	1,424.23
Total	**6.84**	**20.29**	**26.65**	**0.05**	**4.92**	**1.11**	**6.03**	**0.39**	**1.11**	**1.49**	**0.00**	**4,844.67**	**4,844.67**	**0.34**	**0.00**	**4,851.66**

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					
2014	1.04	4.82	7.74	0.01	1.05	0.31	1.37	0.12	0.31	0.43	0.00	1,350.38	1,350.38	0.10	0.00	1,352.45
2015	1.82	5.83	12.02	0.02	0.96	0.42	1.38	0.07	0.42	0.49	0.00	2,072.11	2,072.11	0.14	0.00	2,074.98
2016	4.25	4.24	8.17	0.02	0.63	0.34	0.96	0.05	0.34	0.38	0.00	1,422.18	1,422.18	0.10	0.00	1,424.23
Total	**7.11**	**14.89**	**27.93**	**0.05**	**2.64**	**1.07**	**3.71**	**0.24**	**1.07**	**1.30**	**0.00**	**4,844.67**	**4,844.67**	**0.34**	**0.00**	**4,851.66**

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	1.23	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
Energy	0.11	0.96	0.81	0.01		0.00	0.07		0.00	0.07	0.00	2,477.11	2,477.11	0.08	0.04	2,492.45
Mobile	0.36	1.05	3.50	0.01	0.77	0.04	0.82	0.03	0.04	0.07	0.00	652.88	652.88	0.02	0.00	653.39
Waste						0.00	0.00		0.00	0.00	105.58	0.00	105.58	6.24	0.00	236.61
Water						0.00	0.00		0.00	0.00	0.00	164.72	164.72	1.33	0.04	203.72
Total	**1.70**	**2.01**	**4.31**	**0.02**	**0.77**	**0.04**	**0.89**	**0.03**	**0.04**	**0.14**	**105.58**	**3,294.71**	**3,400.29**	**7.67**	**0.08**	**3,586.17**

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	1.23	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
Energy	0.11	0.96	0.81	0.01		0.00	0.07		0.00	0.07	0.00	2,477.11	2,477.11	0.08	0.04	2,492.45
Mobile	0.36	1.05	3.50	0.01	0.77	0.04	0.82	0.03	0.04	0.07	0.00	652.88	652.88	0.02	0.00	653.39
Waste						0.00	0.00		0.00	0.00	105.58	0.00	105.58	6.24	0.00	236.61
Water						0.00	0.00		0.00	0.00	0.00	164.72	164.72	1.33	0.04	203.72
Total	**1.70**	**2.01**	**4.31**	**0.02**	**0.77**	**0.04**	**0.89**	**0.03**	**0.04**	**0.14**	**105.58**	**3,294.71**	**3,400.29**	**7.67**	**0.08**	**3,586.17**

3.0 Construction Detail

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment
Use DPF for Construction Equipment
Use Soil Stabilizer
Replace Ground Cover
Water Exposed Area
Clean Paved Roads

3.2 Demolition and Site Preparation - 2014

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					0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.15	1.22	0.68	0.00		0.06	0.06		0.06	0.06	0.00	137.78	137.78	0.01	0.00	138.04
Total	**0.15**	**1.22**	**0.68**	**0.00**	**0.02**	**0.06**	**0.08**	**0.00**	**0.06**	**0.06**	**0.00**	**137.78**	**137.78**	**0.01**	**0.00**	**138.04**

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	0.01	0.07	0.04	0.00	0.13	0.00	0.14	0.00	0.00	0.00	0.00	11.14	11.14	0.00	0.00	11.15
Vendor	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
Worker	0.01	0.01	0.09	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	14.50	14.50	0.00	0.00	14.52
Total	**0.02**	**0.08**	**0.13**	**0.00**	**0.15**	**0.00**	**0.16**	**0.00**	**0.00**	**0.00**	**0.00**	**25.64**	**25.64**	**0.00**	**0.00**	**25.67**

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					
Fugitive Dust					0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.11	0.69	0.81	0.00		0.05	0.05		0.05	0.05	0.00	137.78	137.78	0.01	0.00	138.04
Total	**0.11**	**0.69**	**0.81**	**0.00**	**0.01**	**0.05**	**0.06**	**0.00**	**0.05**	**0.05**	**0.00**	**137.78**	**137.78**	**0.01**	**0.00**	**138.04**

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	0.01	0.07	0.04	0.00	0.07	0.00	0.08	0.00	0.00	0.00	0.00	11.14	11.14	0.00	0.00	11.15
Vendor	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
Worker	0.01	0.01	0.09	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	14.50	14.50	0.00	0.00	14.52
Total	**0.02**	**0.08**	**0.13**	**0.00**	**0.08**	**0.00**	**0.09**	**0.00**	**0.00**	**0.00**	**0.00**	**25.64**	**25.64**	**0.00**	**0.00**	**25.67**

3.3 Grading - 2014

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					0.54	0.00	0.54	0.23	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.30	2.48	1.29	0.00		0.11	0.11		0.11	0.11	0.00	270.48	270.48	0.02	0.00	270.99
Total	**0.30**	**2.48**	**1.29**	**0.00**	**0.54**	**0.11**	**0.65**	**0.23**	**0.11**	**0.34**	**0.00**	**270.48**	**270.48**	**0.02**	**0.00**	**270.99**

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	0.02	0.24	0.12	0.00	0.68	0.01	0.69	0.00	0.01	0.01	0.00	37.14	37.14	0.00	0.00	37.16
Vendor	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
Worker	0.08	0.10	0.97	0.00	0.23	0.01	0.23	0.01	0.01	0.02	0.00	162.41	162.41	0.01	0.00	162.59
Total	**0.10**	**0.34**	**1.09**	**0.00**	**0.91**	**0.02**	**0.92**	**0.01**	**0.02**	**0.03**	**0.00**	**199.55**	**199.55**	**0.01**	**0.00**	**199.75**

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					
Fugitive Dust					0.20	0.00	0.20	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.21	1.36	1.49	0.00		0.09	0.09		0.09	0.09	0.00	270.48	270.48	0.02	0.00	270.99
Total	**0.21**	**1.36**	**1.49**	**0.00**	**0.20**	**0.09**	**0.29**	**0.09**	**0.09**	**0.18**	**0.00**	**270.48**	**270.48**	**0.02**	**0.00**	**270.99**

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	0.02	0.24	0.12	0.00	0.37	0.01	0.38	0.00	0.01	0.01	0.00	37.14	37.14	0.00	0.00	37.16
Vendor	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
Worker	0.08	0.10	0.97	0.00	0.13	0.01	0.13	0.01	0.01	0.02	0.00	162.41	162.41	0.01	0.00	162.59
Total	**0.10**	**0.34**	**1.09**	**0.00**	**0.50**	**0.02**	**0.51**	**0.01**	**0.02**	**0.03**	**0.00**	**199.55**	**199.55**	**0.01**	**0.00**	**199.75**

3.4 Utilities - 2014

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	0.18	1.40	0.85	0.00		0.06	0.06		0.06	0.06	0.00	151.65	151.65	0.01	0.00	151.95
Total	**0.18**	**1.40**	**0.85**	**0.00**		**0.06**	**0.06**		**0.06**	**0.06**	**0.00**	**151.65**	**151.65**	**0.01**	**0.00**	**151.95**

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	0.00	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
Vendor	0.02	0.20	0.11	0.00	0.01	0.01	0.02	0.00	0.01	0.01	0.00	34.63	34.63	0.00	0.00	34.64
Worker	0.02	0.02	0.19	0.00	0.04	0.00	0.05	0.00	0.00	0.00	0.00	32.26	32.26	0.00	0.00	32.30
Total	**0.04**	**0.22**	**0.30**	**0.00**	**0.05**	**0.01**	**0.07**	**0.00**	**0.01**	**0.01**	**0.00**	**66.89**	**66.89**	**0.00**	**0.00**	**66.94**

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	0.12	0.76	0.90	0.00		0.05	0.05		0.05	0.05	0.00	151.65	151.65	0.01	0.00	151.95
Total	**0.12**	**0.76**	**0.90**	**0.00**		**0.05**	**0.05**		**0.05**	**0.05**	**0.00**	**151.65**	**151.65**	**0.01**	**0.00**	**151.95**

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	0.00	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
Vendor	0.02	0.20	0.11	0.00	0.01	0.01	0.01	0.00	0.01	0.01	0.00	34.63	34.63	0.00	0.00	34.64
Worker	0.02	0.02	0.19	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.00	32.26	32.26	0.00	0.00	32.30
Total	**0.04**	**0.22**	**0.30**	**0.00**	**0.04**	**0.01**	**0.04**	**0.00**	**0.01**	**0.01**	**0.00**	**66.89**	**66.89**	**0.00**	**0.00**	**66.94**

3.4 Utilities - 2015

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	0.10	0.75	0.48	0.00		0.03	0.03		0.03	0.03	0.00	89.04	89.04	0.01	0.00	89.21
Total	**0.10**	**0.75**	**0.48**	**0.00**		**0.03**	**0.03**		**0.03**	**0.03**	**0.00**	**89.04**	**89.04**	**0.01**	**0.00**	**89.21**

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	0.00	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
Vendor	0.01	0.11	0.06	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	20.35	20.35	0.00	0.00	20.35
Worker	0.01	0.01	0.10	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.00	18.52	18.52	0.00	0.00	18.54
Total	**0.02**	**0.12**	**0.16**	**0.00**	**0.04**	**0.00**	**0.04**	**0.00**	**0.00**	**0.00**	**0.00**	**38.87**	**38.87**	**0.00**	**0.00**	**38.89**

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	0.07	0.45	0.53	0.00		0.03	0.03		0.03	0.03	0.00	89.04	89.04	0.01	0.00	89.21
Total	**0.07**	**0.45**	**0.53**	**0.00**		**0.03**	**0.03**		**0.03**	**0.03**	**0.00**	**89.04**	**89.04**	**0.01**	**0.00**	**89.21**

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	0.00	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
Vendor	0.01	0.11	0.06	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	20.35	20.35	0.00	0.00	20.35
Worker	0.01	0.01	0.10	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.00	18.52	18.52	0.00	0.00	18.54
Total	**0.02**	**0.12**	**0.16**	**0.00**	**0.01**	**0.00**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**	**38.87**	**38.87**	**0.00**	**0.00**	**38.89**

3.5 Building Construction - 2014

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	0.23	1.51	1.07	0.00		0.09	0.09		0.09	0.09	0.00	177.12	177.12	0.02	0.00	177.52
Total	**0.23**	**1.51**	**1.07**	**0.00**		**0.09**	**0.09**		**0.09**	**0.09**	**0.00**	**177.12**	**177.12**	**0.02**	**0.00**	**177.52**

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	0.00	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
Vendor	0.01	0.12	0.06	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	20.97	20.97	0.00	0.00	20.98
Worker	0.15	0.18	1.79	0.00	0.42	0.01	0.43	0.02	0.01	0.03	0.00	300.29	300.29	0.02	0.00	300.62
Total	**0.16**	**0.30**	**1.85**	**0.00**	**0.43**	**0.01**	**0.44**	**0.02**	**0.01**	**0.03**	**0.00**	**321.26**	**321.26**	**0.02**	**0.00**	**321.60**

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	0.29	1.06	1.17	0.00		0.08	0.08		0.08	0.08	0.00	177.12	177.12	0.02	0.00	177.52
Total	**0.29**	**1.06**	**1.17**	**0.00**		**0.08**	**0.08**		**0.08**	**0.08**	**0.00**	**177.12**	**177.12**	**0.02**	**0.00**	**177.52**

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	0.00	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
Vendor	0.01	0.12	0.06	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	20.97	20.97	0.00	0.00	20.98
Worker	0.15	0.18	1.79	0.00	0.23	0.01	0.25	0.02	0.01	0.03	0.00	300.29	300.29	0.02	0.00	300.62
Total	**0.16**	**0.30**	**1.85**	**0.00**	**0.23**	**0.01**	**0.26**	**0.02**	**0.01**	**0.03**	**0.00**	**321.26**	**321.26**	**0.02**	**0.00**	**321.60**

3.5 Building Construction - 2015

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	0.84	5.45	4.17	0.01		0.30	0.30		0.30	0.30	0.00	700.45	700.45	0.07	0.00	701.88
Total	**0.84**	**5.45**	**4.17**	**0.01**		**0.30**	**0.30**		**0.30**	**0.30**	**0.00**	**700.45**	**700.45**	**0.07**	**0.00**	**701.88**

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	0.00	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
Vendor	0.03	0.44	0.24	0.00	0.03	0.01	0.04	0.00	0.01	0.02	0.00	82.97	82.97	0.00	0.00	83.00
Worker	0.56	0.63	6.45	0.01	1.65	0.05	1.70	0.07	0.05	0.12	0.00	1,160.78	1,160.78	0.06	0.00	1,161.99
Total	**0.59**	**1.07**	**6.69**	**0.01**	**1.68**	**0.06**	**1.74**	**0.07**	**0.06**	**0.14**	**0.00**	**1,243.75**	**1,243.75**	**0.06**	**0.00**	**1,244.99**

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	1.14	4.20	4.64	0.01		0.32	0.32		0.32	0.32	0.00	700.45	700.45	0.07	0.00	701.88
Total	**1.14**	**4.20**	**4.64**	**0.01**		**0.32**	**0.32**		**0.32**	**0.32**	**0.00**	**700.45**	**700.45**	**0.07**	**0.00**	**701.88**

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	0.00	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
Vendor	0.03	0.44	0.24	0.00	0.02	0.01	0.03	0.00	0.01	0.02	0.00	82.97	82.97	0.00	0.00	83.00
Worker	0.56	0.63	6.45	0.01	0.92	0.05	0.98	0.07	0.05	0.12	0.00	1,160.78	1,160.78	0.06	0.00	1,161.99
Total	**0.59**	**1.07**	**6.69**	**0.01**	**0.94**	**0.06**	**1.01**	**0.07**	**0.06**	**0.14**	**0.00**	**1,243.75**	**1,243.75**	**0.06**	**0.00**	**1,244.99**

3.5 Building Construction - 2016

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	0.51	3.30	2.75	0.01		0.18	0.18		0.18	0.18	0.00	466.96	466.96	0.04	0.00	467.84
Total	**0.51**	**3.30**	**2.75**	**0.01**		**0.18**	**0.18**		**0.18**	**0.18**	**0.00**	**466.96**	**466.96**	**0.04**	**0.00**	**467.84**

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	0.00	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
Vendor	0.02	0.27	0.15	0.00	0.02	0.01	0.03	0.00	0.01	0.01	0.00	55.55	55.55	0.00	0.00	55.57
Worker	0.35	0.38	3.96	0.01	1.10	0.04	1.14	0.05	0.04	0.08	0.00	764.36	764.36	0.04	0.00	765.12
Total	**0.37**	**0.65**	**4.11**	**0.01**	**1.12**	**0.05**	**1.17**	**0.05**	**0.05**	**0.09**	**0.00**	**819.91**	**819.91**	**0.04**	**0.00**	**820.69**

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	0.76	2.80	3.09	0.01		0.21	0.21		0.21	0.21	0.00	466.96	466.96	0.04	0.00	467.84
Total	**0.76**	**2.80**	**3.09**	**0.01**		**0.21**	**0.21**		**0.21**	**0.21**	**0.00**	**466.96**	**466.96**	**0.04**	**0.00**	**467.84**

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	0.00	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
Vendor	0.02	0.27	0.15	0.00	0.01	0.01	0.02	0.00	0.01	0.01	0.00	55.55	55.55	0.00	0.00	55.57
Worker	0.35	0.38	3.96	0.01	0.61	0.04	0.65	0.05	0.04	0.08	0.00	764.36	764.36	0.04	0.00	765.12
Total	**0.37**	**0.65**	**4.11**	**0.01**	**0.62**	**0.05**	**0.67**	**0.05**	**0.05**	**0.09**	**0.00**	**819.91**	**819.91**	**0.04**	**0.00**	**820.69**

3.6 Paving - 2016

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	0.21	1.26	0.91	0.00		0.11	0.11		0.11	0.11	0.00	118.47	118.47	0.02	0.00	118.82
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.21**	**1.26**	**0.91**	**0.00**		**0.11**	**0.11**		**0.11**	**0.11**	**0.00**	**118.47**	**118.47**	**0.02**	**0.00**	**118.82**

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	0.00	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
Vendor	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
Worker	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
Total	**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**

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	0.11	0.69	0.85	0.00		0.07	0.07		0.07	0.07	0.00	118.47	118.47	0.02	0.00	118.82
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.11**	**0.69**	**0.85**	**0.00**		**0.07**	**0.07**		**0.07**	**0.07**	**0.00**	**118.47**	**118.47**	**0.02**	**0.00**	**118.82**

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	0.00	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
Vendor	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
Worker	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
Total	**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**

3.7 Architectural Coating - 2016

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	2.99					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.02	0.16	0.12	0.00		0.01	0.01		0.01	0.01	0.00	16.83	16.83	0.00	0.00	16.87
Total	**3.01**	**0.16**	**0.12**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**	**0.00**	**16.83**	**16.83**	**0.00**	**0.00**	**16.87**

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	0.00	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
Vendor	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
Worker	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
Total	**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**

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	2.99					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.02	0.10	0.12	0.00		0.01	0.01		0.01	0.01	0.00	16.83	16.83	0.00	0.00	16.87
Total	**3.01**	**0.10**	**0.12**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**	**0.00**	**16.83**	**16.83**	**0.00**	**0.00**	**16.87**

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	0.00	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
Vendor	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
Worker	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
Total	**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**

4.0 Mobile Detail

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	0.36	1.05	3.50	0.01	0.77	0.04	0.82	0.03	0.04	0.07	0.00	652.88	652.88	0.02	0.00	653.39
Unmitigated	0.36	1.05	3.50	0.01	0.77	0.04	0.82	0.03	0.04	0.07	0.00	652.88	652.88	0.02	0.00	653.39
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hospital	397.20	397.20	397.20	1,430,331	1,430,331
Total	397.20	397.20	397.20	1,430,331	1,430,331

4.3 Trip Type Information

	Miles			Trip %		
Land Use	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
Hospital	12.60	15.40	9.60	64.90	16.10	19.00

5.0 Energy Detail

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	tons/yr										MT/yr					
Electricity Mitigated						0.00	0.00		0.00	0.00	0.00	1,432.89	1,432.89	0.06	0.02	1,441.87
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	1,432.89	1,432.89	0.06	0.02	1,441.87
NaturalGas Mitigated	0.11	0.96	0.81	0.01		0.00	0.07		0.00	0.07	0.00	1,044.23	1,044.23	0.02	0.02	1,050.58
NaturalGas Unmitigated	0.11	0.96	0.81	0.01		0.00	0.07		0.00	0.07	0.00	1,044.23	1,044.23	0.02	0.02	1,050.58
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	tons/yr										MT/yr					
Hospital	1.95681e+007	0.11	0.96	0.81	0.01		0.00	0.07		0.00	0.07	0.00	1,044.23	1,044.23	0.02	0.02	1,050.58
Total		**0.11**	**0.96**	**0.81**	**0.01**		**0.00**	**0.07**		**0.00**	**0.07**	**0.00**	**1,044.23**	**1,044.23**	**0.02**	**0.02**	**1,050.58**

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	tons/yr										MT/yr					
Hospital	1.95681e+007	0.11	0.96	0.81	0.01		0.00	0.07		0.00	0.07	0.00	1,044.23	1,044.23	0.02	0.02	1,050.58
Total		**0.11**	**0.96**	**0.81**	**0.01**		**0.00**	**0.07**		**0.00**	**0.07**	**0.00**	**1,044.23**	**1,044.23**	**0.02**	**0.02**	**1,050.58**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Hospital	4.9262e+006					1,432.89	0.06	0.02	1,441.87
Total						**1,432.89**	**0.06**	**0.02**	**1,441.87**

Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Hospital	4.9262e+006					1,432.89	0.06	0.02	1,441.87
Total						**1,432.89**	**0.06**	**0.02**	**1,441.87**

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	1.23	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
Unmitigated	1.23	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
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	0.30					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.93					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	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
Total	**1.23**	**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**

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	0.30					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.93					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	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
Total	**1.23**	**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**

7.0 Water Detail

7.1 Mitigation Measures Water

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					164.72	1.33	0.04	203.72
Unmitigated					164.72	1.33	0.04	203.72
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Hospital	43.362 / 0					164.72	1.33	0.04	203.72
Total						**164.72**	**1.33**	**0.04**	**203.72**

Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Hospital	43.362 / 0					164.72	1.33	0.04	203.72
Total						**164.72**	**1.33**	**0.04**	**203.72**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	tons/yr				MT/yr			
Mitigated					105.58	6.24	0.00	236.61
Unmitigated					105.58	6.24	0.00	236.61
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Hospital	520.125					105.58	6.24	0.00	236.61
Total						**105.58**	**6.24**	**0.00**	**236.61**

Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Hospital	520.125					105.58	6.24	0.00	236.61
Total						**105.58**	**6.24**	**0.00**	**236.61**

9.0 Vegetation

Electricity Related Emissions

257,916.00	square feet	Building size
26.60	kWh/sq.ft.	Electricity consumption from Vanir data report
6,860,565.60	kWh/year	Annual electricity consumption
6,860.57	MWh/year	

Emission Factors

806.27	lb CO_2/MWh
0.029	lb CH_4/MWh
0.01	lb N_2O/MWh

Emissions

5,556,914.06	lb CO_2e/year
2,520.58	metric tons CO_2e/year

Notes:

kWh = kilowatt-hour

MWh = megawatt-hour

lb = pounds

CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide

CO_2e = carbon dioxide equivalent

Diesel Generator

Equipment Unit	Fuel Type	Equipment Size	Units	Permitted Operating Hrs	Fuel Consumption @ 100% load		CO_2(1)	Units	CH_4(2)	N_2O(2)	CO_2	CH_4	N_2O	CO_2	CH_4	N_2O	Total CO2e
				hr/yr	gal/hr	lb/hr			g/MMBtu	g/MMBtu	MT/yr	MT/yr	MT/yr	CO_2e	CO_2e	CO_2e	MT/yr
IC Engine Stand	Diesel	5,364.00	bhp	200	42.7	161.6	10.21	kg CO2/gallon	4	0.6	87.19	0.002	0.000	87.19	0.05	0.12	87.36

Notes:

(1) Climate Registry Default Emission Factors Table 12.1, Januay 6, 2012

(2) Climate Registry Default Emission Factors Table 12.7 & 12.9, Januay 6, 2012

Global Warming Potential (GWP):

CO2 =	1
CH4 =	21
N2O =	310

Conversions:

kg =	1000	g	
MT =	1000000	g	
MT =	2204.62	lb	
lb =	19300	Btu	Diesel BTU content, AP-42 Table 3.3-1