

3.3 Site Preparation - 2016**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					0.5665	0.0000	0.5665	0.0612	0.0000	0.0612	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2765	5.3500	6.1881	0.0113		0.2080	0.2080		0.2080	0.2080	0.0000	1,062.0747	1,062.0747	0.3204	0.0000	1,068.8023
Total	0.2765	5.3500	6.1881	0.0113	0.5665	0.2080	0.7745	0.0612	0.2080	0.2691	0.0000	1,062.0747	1,062.0747	0.3204	0.0000	1,068.8023

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	3.0000e-005	5.0000e-004	3.6000e-004	0.0000	7.0000e-005	1.0000e-005	9.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.1375	0.1375	0.0000	0.0000	0.1375
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	0.0000	0.0000
Worker	0.0328	0.0789	0.6487	8.3000e-004	0.0753	4.8000e-004	0.0758	0.0200	4.4000e-004	0.0204	0.0000	60.0721	60.0721	4.8500e-003	0.0000	60.1741
Total	0.0328	0.0794	0.6491	8.3000e-004	0.0753	4.9000e-004	0.0758	0.0200	4.5000e-004	0.0204	0.0000	60.2096	60.2096	4.8500e-003	0.0000	60.3115

3.4 Miscellaneous - 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	0.0340	0.3001	0.1660	3.4000e-004		0.0160	0.0160		0.0154	0.0154	0.0000	30.4592	30.4592	7.0500e-003	0.0000	30.6072
Total	0.0340	0.3001	0.1660	3.4000e-004		0.0160	0.0160		0.0154	0.0154	0.0000	30.4592	30.4592	7.0500e-003	0.0000	30.6072

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	2.0000e-005	4.2000e-004	2.8000e-004	0.0000	7.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.0989	0.0989	0.0000	0.0000	0.0989
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	0.0000	0.0000
Worker	0.0470	0.1109	0.9226	1.0500e-003	0.0954	6.5000e-004	0.0961	0.0253	6.0000e-004	0.0259	0.0000	79.2969	79.2969	6.7200e-003	0.0000	79.4379
Total	0.0470	0.1113	0.9229	1.0500e-003	0.0955	6.6000e-004	0.0961	0.0253	6.1000e-004	0.0259	0.0000	79.3958	79.3958	6.7200e-003	0.0000	79.5369

3.4 Miscellaneous - 2015**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	0.0105	0.1631	0.1873	3.4000e-004		7.7300e-003	7.7300e-003		7.7300e-003	7.7300e-003	0.0000	30.4591	30.4591	7.0500e-003	0.0000	30.6071
Total	0.0105	0.1631	0.1873	3.4000e-004		7.7300e-003	7.7300e-003		7.7300e-003	7.7300e-003	0.0000	30.4591	30.4591	7.0500e-003	0.0000	30.6071

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	2.0000e-005	4.2000e-004	2.8000e-004	0.0000	7.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.0989	0.0989	0.0000	0.0000	0.0989
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	0.0000	0.0000
Worker	0.0470	0.1109	0.9226	1.0500e-003	0.0954	6.5000e-004	0.0961	0.0253	6.0000e-004	0.0259	0.0000	79.2969	79.2969	6.7200e-003	0.0000	79.4379
Total	0.0470	0.1113	0.9229	1.0500e-003	0.0955	6.6000e-004	0.0961	0.0253	6.1000e-004	0.0259	0.0000	79.3958	79.3958	6.7200e-003	0.0000	79.5369

3.4 Miscellaneous - 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	0.0687	0.6016	0.3506	7.5000e-004		0.0314	0.0314		0.0303	0.0303	0.0000	66.3191	66.3191	0.0152	0.0000	66.6383
Total	0.0687	0.6016	0.3506	7.5000e-004		0.0314	0.0314		0.0303	0.0303	0.0000	66.3191	66.3191	0.0152	0.0000	66.6383

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	5.0000e-005	7.7000e-004	5.6000e-004	0.0000	8.0000e-005	2.0000e-005	1.0000e-004	2.0000e-005	2.0000e-005	4.0000e-005	0.0000	0.2140	0.2140	0.0000	0.0000	0.2141
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	0.0000	0.0000
Worker	0.0911	0.2192	1.8029	2.3000e-003	0.2092	1.3300e-003	0.2105	0.0555	1.2200e-003	0.0567	0.0000	166.9446	166.9446	0.0135	0.0000	167.2279
Total	0.0911	0.2200	1.8035	2.3000e-003	0.2093	1.3500e-003	0.2106	0.0555	1.2400e-003	0.0568	0.0000	167.1587	167.1587	0.0135	0.0000	167.4420

3.4 Miscellaneous - 2016**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	0.0230	0.3576	0.4107	7.5000e-004		0.0170	0.0170		0.0170	0.0170	0.0000	66.3190	66.3190	0.0152	0.0000	66.6382
Total	0.0230	0.3576	0.4107	7.5000e-004		0.0170	0.0170		0.0170	0.0170	0.0000	66.3190	66.3190	0.0152	0.0000	66.6382

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	5.0000e-005	7.7000e-004	5.6000e-004	0.0000	8.0000e-005	2.0000e-005	1.0000e-004	2.0000e-005	2.0000e-005	4.0000e-005	0.0000	0.2140	0.2140	0.0000	0.0000	0.2141
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	0.0000	0.0000
Worker	0.0911	0.2192	1.8029	2.3000e-003	0.2092	1.3300e-003	0.2105	0.0555	1.2200e-003	0.0567	0.0000	166.9446	166.9446	0.0135	0.0000	167.2279
Total	0.0911	0.2200	1.8035	2.3000e-003	0.2093	1.3500e-003	0.2106	0.0555	1.2400e-003	0.0568	0.0000	167.1587	167.1587	0.0135	0.0000	167.4420

3.5 Substation - 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	0.0795	0.9285	0.4620	7.5000e-004		0.0445	0.0445		0.0409	0.0409	0.0000	71.3240	71.3240	0.0213	0.0000	71.7712
Total	0.0795	0.9285	0.4620	7.5000e-004		0.0445	0.0445		0.0409	0.0409	0.0000	71.3240	71.3240	0.0213	0.0000	71.7712

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	5.0000e-005	8.1000e-004	5.5000e-004	0.0000	8.0000e-005	2.0000e-005	1.0000e-004	2.0000e-005	2.0000e-005	4.0000e-005	0.0000	0.1936	0.1936	0.0000	0.0000	0.1936
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	0.0000	0.0000
Worker	0.0444	0.1048	0.8718	9.9000e-004	0.0902	6.2000e-004	0.0908	0.0239	5.6000e-004	0.0245	0.0000	74.9319	74.9319	6.3500e-003	0.0000	75.0652
Total	0.0445	0.1056	0.8724	9.9000e-004	0.0902	6.4000e-004	0.0909	0.0239	5.8000e-004	0.0245	0.0000	75.1256	75.1256	6.3500e-003	0.0000	75.2588

3.5 Substation - 2015**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	0.0185	0.3574	0.4976	7.5000e-004		0.0157	0.0157		0.0157	0.0157	0.0000	71.3239	71.3239	0.0213	0.0000	71.7711
Total	0.0185	0.3574	0.4976	7.5000e-004		0.0157	0.0157		0.0157	0.0157	0.0000	71.3239	71.3239	0.0213	0.0000	71.7711

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	5.0000e-005	8.1000e-004	5.5000e-004	0.0000	8.0000e-005	2.0000e-005	1.0000e-004	2.0000e-005	2.0000e-005	4.0000e-005	0.0000	0.1936	0.1936	0.0000	0.0000	0.1936
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	0.0000	0.0000
Worker	0.0444	0.1048	0.8718	9.9000e-004	0.0902	6.2000e-004	0.0908	0.0239	5.6000e-004	0.0245	0.0000	74.9319	74.9319	6.3500e-003	0.0000	75.0652
Total	0.0445	0.1056	0.8724	9.9000e-004	0.0902	6.4000e-004	0.0909	0.0239	5.8000e-004	0.0245	0.0000	75.1256	75.1256	6.3500e-003	0.0000	75.2588

3.5 Substation - 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	0.0476	0.5505	0.2873	4.7000e-004		0.0263	0.0263		0.0242	0.0242	0.0000	44.5051	44.5051	0.0134	0.0000	44.7870
Total	0.0476	0.5505	0.2873	4.7000e-004		0.0263	0.0263		0.0242	0.0242	0.0000	44.5051	44.5051	0.0134	0.0000	44.7870

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	3.0000e-005	4.4000e-004	3.2000e-004	0.0000	7.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.1206	0.1206	0.0000	0.0000	0.1206
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	0.0000	0.0000
Worker	0.0248	0.0596	0.4903	6.3000e-004	0.0569	3.6000e-004	0.0573	0.0151	3.3000e-004	0.0154	0.0000	45.4034	45.4034	3.6700e-003	0.0000	45.4804
Total	0.0248	0.0601	0.4907	6.3000e-004	0.0570	3.7000e-004	0.0573	0.0151	3.4000e-004	0.0155	0.0000	45.5239	45.5239	3.6700e-003	0.0000	45.6010

3.5 Substation - 2016**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	0.0117	0.2256	0.3140	4.7000e-004		9.8900e-003	9.8900e-003		9.8900e-003	9.8900e-003	0.0000	44.5050	44.5050	0.0134	0.0000	44.7869
Total	0.0117	0.2256	0.3140	4.7000e-004		9.8900e-003	9.8900e-003		9.8900e-003	9.8900e-003	0.0000	44.5050	44.5050	0.0134	0.0000	44.7869

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	3.0000e-005	4.4000e-004	3.2000e-004	0.0000	7.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.1206	0.1206	0.0000	0.0000	0.1206
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	0.0000	0.0000
Worker	0.0248	0.0596	0.4903	6.3000e-004	0.0569	3.6000e-004	0.0573	0.0151	3.3000e-004	0.0154	0.0000	45.4034	45.4034	3.6700e-003	0.0000	45.4804
Total	0.0248	0.0601	0.4907	6.3000e-004	0.0570	3.7000e-004	0.0573	0.0151	3.4000e-004	0.0155	0.0000	45.5239	45.5239	3.6700e-003	0.0000	45.6010

3.6 Post Installation - 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	0.2193	1.7060	1.4531	1.8500e-003		0.1130	0.1130		0.1039	0.1039	0.0000	176.3147	176.3147	0.0526	0.0000	177.4201
Total	0.2193	1.7060	1.4531	1.8500e-003		0.1130	0.1130		0.1039	0.1039	0.0000	176.3147	176.3147	0.0526	0.0000	177.4201

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	3.0000e-005	5.8000e-004	3.9000e-004	0.0000	7.0000e-005	1.0000e-005	9.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.1380	0.1380	0.0000	0.0000	0.1380
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	0.0000	0.0000
Worker	0.0358	0.0844	0.7025	8.0000e-004	0.0727	5.0000e-004	0.0731	0.0193	4.5000e-004	0.0197	0.0000	60.3820	60.3820	5.1100e-003	0.0000	60.4894
Total	0.0358	0.0850	0.7029	8.0000e-004	0.0727	5.1000e-004	0.0732	0.0193	4.6000e-004	0.0198	0.0000	60.5200	60.5200	5.1100e-003	0.0000	60.6274

3.6 Post Installation - 2015**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	0.1858	1.4692	1.5044	1.8500e-003		0.1045	0.1045		0.0985	0.0985	0.0000	176.3145	176.3145	0.0526	0.0000	177.4198
Total	0.1858	1.4692	1.5044	1.8500e-003		0.1045	0.1045		0.0985	0.0985	0.0000	176.3145	176.3145	0.0526	0.0000	177.4198

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	3.0000e-005	5.8000e-004	3.9000e-004	0.0000	7.0000e-005	1.0000e-005	9.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.1380	0.1380	0.0000	0.0000	0.1380
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	0.0000	0.0000
Worker	0.0358	0.0844	0.7025	8.0000e-004	0.0727	5.0000e-004	0.0731	0.0193	4.5000e-004	0.0197	0.0000	60.3820	60.3820	5.1100e-003	0.0000	60.4894
Total	0.0358	0.0850	0.7029	8.0000e-004	0.0727	5.1000e-004	0.0732	0.0193	4.6000e-004	0.0198	0.0000	60.5200	60.5200	5.1100e-003	0.0000	60.6274

3.6 Post Installation - 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	0.2812	2.1107	1.8842	2.3900e-003		0.1397	0.1397		0.1285	0.1285	0.0000	225.0440	225.0440	0.0679	0.0000	226.4696
Total	0.2812	2.1107	1.8842	2.3900e-003		0.1397	0.1397		0.1285	0.1285	0.0000	225.0440	225.0440	0.0679	0.0000	226.4696

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	4.0000e-005	6.3000e-004	4.6000e-004	0.0000	8.0000e-005	1.0000e-005	9.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.1755	0.1755	0.0000	0.0000	0.1755
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	0.0000	0.0000
Worker	0.0408	0.0981	0.8072	1.0300e-003	0.0937	6.0000e-004	0.0943	0.0248	5.5000e-004	0.0254	0.0000	74.7409	74.7409	6.0400e-003	0.0000	74.8677
Total	0.0408	0.0988	0.8076	1.0300e-003	0.0937	6.1000e-004	0.0943	0.0249	5.6000e-004	0.0254	0.0000	74.9164	74.9164	6.0400e-003	0.0000	75.0433

3.6 Post Installation - 2016**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	0.2453	1.8927	1.9552	2.3900e-003		0.1355	0.1355		0.1277	0.1277	0.0000	225.0438	225.0438	0.0679	0.0000	226.4693
Total	0.2453	1.8927	1.9552	2.3900e-003		0.1355	0.1355		0.1277	0.1277	0.0000	225.0438	225.0438	0.0679	0.0000	226.4693

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	4.0000e-005	6.3000e-004	4.6000e-004	0.0000	8.0000e-005	1.0000e-005	9.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.1755	0.1755	0.0000	0.0000	0.1755
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	0.0000	0.0000
Worker	0.0408	0.0981	0.8072	1.0300e-003	0.0937	6.0000e-004	0.0943	0.0248	5.5000e-004	0.0254	0.0000	74.7409	74.7409	6.0400e-003	0.0000	74.8677
Total	0.0408	0.0988	0.8076	1.0300e-003	0.0937	6.1000e-004	0.0943	0.0249	5.6000e-004	0.0254	0.0000	74.9164	74.9164	6.0400e-003	0.0000	75.0433

3.7 Transmission Line - 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	0.0276	0.3366	0.1789	2.9000e-004		0.0146	0.0146		0.0134	0.0134	0.0000	28.0659	28.0659	8.3800e-003	0.0000	28.2419
Total	0.0276	0.3366	0.1789	2.9000e-004		0.0146	0.0146		0.0134	0.0134	0.0000	28.0659	28.0659	8.3800e-003	0.0000	28.2419

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	3.0000e-005	5.6000e-004	3.8000e-004	0.0000	7.0000e-005	1.0000e-005	9.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.1335	0.1335	0.0000	0.0000	0.1336
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	0.0000	0.0000
Worker	0.0272	0.0641	0.5332	6.1000e-004	0.0551	3.8000e-004	0.0555	0.0146	3.4000e-004	0.0150	0.0000	45.8322	45.8322	3.8800e-003	0.0000	45.9137
Total	0.0272	0.0647	0.5336	6.1000e-004	0.0552	3.9000e-004	0.0556	0.0147	3.5000e-004	0.0150	0.0000	45.9657	45.9657	3.8800e-003	0.0000	46.0472

3.7 Transmission Line - 2015**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	7.2800e-003	0.1447	0.1681	2.9000e-004		6.3200e-003	6.3200e-003		6.3200e-003	6.3200e-003	0.0000	28.0659	28.0659	8.3800e-003	0.0000	28.2419
Total	7.2800e-003	0.1447	0.1681	2.9000e-004		6.3200e-003	6.3200e-003		6.3200e-003	6.3200e-003	0.0000	28.0659	28.0659	8.3800e-003	0.0000	28.2419

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	3.0000e-005	5.6000e-004	3.8000e-004	0.0000	7.0000e-005	1.0000e-005	9.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.1335	0.1335	0.0000	0.0000	0.1336
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	0.0000	0.0000
Worker	0.0272	0.0641	0.5332	6.1000e-004	0.0551	3.8000e-004	0.0555	0.0146	3.4000e-004	0.0150	0.0000	45.8322	45.8322	3.8800e-003	0.0000	45.9137
Total	0.0272	0.0647	0.5336	6.1000e-004	0.0552	3.9000e-004	0.0556	0.0147	3.5000e-004	0.0150	0.0000	45.9657	45.9657	3.8800e-003	0.0000	46.0472

3.7 Transmission Line - 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	0.0353	0.4258	0.2332	4.0000e-004		0.0182	0.0182		0.0167	0.0167	0.0000	37.9187	37.9187	0.0114	0.0000	38.1589
Total	0.0353	0.4258	0.2332	4.0000e-004		0.0182	0.0182		0.0167	0.0167	0.0000	37.9187	37.9187	0.0114	0.0000	38.1589

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	4.0000e-005	6.5000e-004	4.7000e-004	0.0000	8.0000e-005	1.0000e-005	9.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.1799	0.1799	0.0000	0.0000	0.1799
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	0.0000	0.0000
Worker	0.0328	0.0789	0.6487	8.3000e-004	0.0753	4.8000e-004	0.0758	0.0200	4.4000e-004	0.0204	0.0000	60.0721	60.0721	4.8500e-003	0.0000	60.1741
Total	0.0328	0.0795	0.6492	8.3000e-004	0.0754	4.9000e-004	0.0758	0.0200	4.5000e-004	0.0204	0.0000	60.2520	60.2520	4.8500e-003	0.0000	60.3540

3.7 Transmission Line - 2016**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	9.9300e-003	0.1975	0.2295	4.0000e-004		8.6300e-003	8.6300e-003		8.6300e-003	8.6300e-003	0.0000	37.9187	37.9187	0.0114	0.0000	38.1589
Total	9.9300e-003	0.1975	0.2295	4.0000e-004		8.6300e-003	8.6300e-003		8.6300e-003	8.6300e-003	0.0000	37.9187	37.9187	0.0114	0.0000	38.1589

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	4.0000e-005	6.5000e-004	4.7000e-004	0.0000	8.0000e-005	1.0000e-005	9.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.1799	0.1799	0.0000	0.0000	0.1799
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	0.0000	0.0000
Worker	0.0328	0.0789	0.6487	8.3000e-004	0.0753	4.8000e-004	0.0758	0.0200	4.4000e-004	0.0204	0.0000	60.0721	60.0721	4.8500e-003	0.0000	60.1741
Total	0.0328	0.0795	0.6492	8.3000e-004	0.0754	4.9000e-004	0.0758	0.0200	4.5000e-004	0.0204	0.0000	60.2520	60.2520	4.8500e-003	0.0000	60.3540

3.8 Below Grade Electrical - 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	0.0654	0.6039	0.4277	5.7000e-004		0.0372	0.0372		0.0342	0.0342	0.0000	54.5813	54.5813	0.0163	0.0000	54.9235
Total	0.0654	0.6039	0.4277	5.7000e-004		0.0372	0.0372		0.0342	0.0342	0.0000	54.5813	54.5813	0.0163	0.0000	54.9235

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	1.0000e-005	2.4000e-004	1.6000e-004	0.0000	7.0000e-005	1.0000e-005	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0568	0.0568	0.0000	0.0000	0.0568
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	0.0000	0.0000
Worker	0.0186	0.0438	0.3640	4.2000e-004	0.0376	2.6000e-004	0.0379	9.9800e-003	2.4000e-004	0.0102	0.0000	31.2823	31.2823	2.6500e-003	0.0000	31.3379
Total	0.0186	0.0440	0.3641	4.2000e-004	0.0377	2.7000e-004	0.0380	1.0000e-002	2.4000e-004	0.0102	0.0000	31.3391	31.3391	2.6500e-003	0.0000	31.3947

3.8 Below Grade Electrical - 2015**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	0.0300	0.3345	0.4545	5.7000e-004		0.0204	0.0204		0.0197	0.0197	0.0000	54.5812	54.5812	0.0163	0.0000	54.9234
Total	0.0300	0.3345	0.4545	5.7000e-004		0.0204	0.0204		0.0197	0.0197	0.0000	54.5812	54.5812	0.0163	0.0000	54.9234

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	1.0000e-005	2.4000e-004	1.6000e-004	0.0000	7.0000e-005	1.0000e-005	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0568	0.0568	0.0000	0.0000	0.0568
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	0.0000	0.0000
Worker	0.0186	0.0438	0.3640	4.2000e-004	0.0376	2.6000e-004	0.0379	9.9800e-003	2.4000e-004	0.0102	0.0000	31.2823	31.2823	2.6500e-003	0.0000	31.3379
Total	0.0186	0.0440	0.3641	4.2000e-004	0.0377	2.7000e-004	0.0380	1.0000e-002	2.4000e-004	0.0102	0.0000	31.3391	31.3391	2.6500e-003	0.0000	31.3947

3.8 Below Grade Electrical - 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	0.2831	2.5659	1.9411	2.6100e-003		0.1584	0.1584		0.1457	0.1457	0.0000	245.9792	245.9792	0.0742	0.0000	247.5373
Total	0.2831	2.5659	1.9411	2.6100e-003		0.1584	0.1584		0.1457	0.1457	0.0000	245.9792	245.9792	0.0742	0.0000	247.5373

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	5.0000e-005	9.2000e-004	6.7000e-004	0.0000	8.0000e-005	2.0000e-005	1.0000e-004	2.0000e-005	2.0000e-005	4.0000e-005	0.0000	0.2556	0.2556	0.0000	0.0000	0.2556
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	0.0000	0.0000
Worker	0.0747	0.1798	1.4785	1.8900e-003	0.1716	1.0900e-003	0.1726	0.0455	1.0000e-003	0.0465	0.0000	136.9086	136.9086	0.0111	0.0000	137.1409
Total	0.0747	0.1807	1.4792	1.8900e-003	0.1716	1.1100e-003	0.1727	0.0455	1.0200e-003	0.0466	0.0000	137.1641	137.1641	0.0111	0.0000	137.3965

3.8 Below Grade Electrical - 2016**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	0.1350	1.5148	2.0733	2.6100e-003		0.0913	0.0913		0.0883	0.0883	0.0000	245.9789	245.9789	0.0742	0.0000	247.5370
Total	0.1350	1.5148	2.0733	2.6100e-003		0.0913	0.0913		0.0883	0.0883	0.0000	245.9789	245.9789	0.0742	0.0000	247.5370

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	5.0000e-005	9.2000e-004	6.7000e-004	0.0000	8.0000e-005	2.0000e-005	1.0000e-004	2.0000e-005	2.0000e-005	4.0000e-005	0.0000	0.2556	0.2556	0.0000	0.0000	0.2556
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	0.0000	0.0000
Worker	0.0747	0.1798	1.4785	1.8900e-003	0.1716	1.0900e-003	0.1726	0.0455	1.0000e-003	0.0465	0.0000	136.9086	136.9086	0.0111	0.0000	137.1409
Total	0.0747	0.1807	1.4792	1.8900e-003	0.1716	1.1100e-003	0.1727	0.0455	1.0200e-003	0.0466	0.0000	137.1641	137.1641	0.0111	0.0000	137.3965

3.9 Above Grade Electrical - 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	1.5400e-003	0.0195	0.0154	2.0000e-005		1.1300e-003	1.1300e-003		1.0400e-003	1.0400e-003	0.0000	2.1200	2.1200	6.3000e-004	0.0000	2.1333
Total	1.5400e-003	0.0195	0.0154	2.0000e-005		1.1300e-003	1.1300e-003		1.0400e-003	1.0400e-003	0.0000	2.1200	2.1200	6.3000e-004	0.0000	2.1333

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	1.0000e-005	1.3000e-004	9.0000e-005	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0303	0.0303	0.0000	0.0000	0.0303
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	0.0000	0.0000
Worker	9.9200e-003	0.0234	0.1947	2.2000e-004	0.0201	1.4000e-004	0.0203	5.3400e-003	1.3000e-004	5.4700e-003	0.0000	16.7324	16.7324	1.4200e-003	0.0000	16.7621
Total	9.9300e-003	0.0235	0.1948	2.2000e-004	0.0202	1.4000e-004	0.0203	5.3600e-003	1.3000e-004	5.4900e-003	0.0000	16.7626	16.7626	1.4200e-003	0.0000	16.7924

3.9 Above Grade Electrical - 2015**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	5.5000e-004	0.0125	0.0169	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	2.1200	2.1200	6.3000e-004	0.0000	2.1333
Total	5.5000e-004	0.0125	0.0169	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	2.1200	2.1200	6.3000e-004	0.0000	2.1333

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	1.0000e-005	1.3000e-004	9.0000e-005	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0303	0.0303	0.0000	0.0000	0.0303
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	0.0000	0.0000
Worker	9.9200e-003	0.0234	0.1947	2.2000e-004	0.0201	1.4000e-004	0.0203	5.3400e-003	1.3000e-004	5.4700e-003	0.0000	16.7324	16.7324	1.4200e-003	0.0000	16.7621
Total	9.9300e-003	0.0235	0.1948	2.2000e-004	0.0202	1.4000e-004	0.0203	5.3600e-003	1.3000e-004	5.4900e-003	0.0000	16.7626	16.7626	1.4200e-003	0.0000	16.7924

3.9 Above Grade Electrical - 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	0.0130	0.1653	0.1439	2.1000e-004		9.1800e-003	9.1800e-003		8.4400e-003	8.4400e-003	0.0000	19.8060	19.8060	5.9700e-003	0.0000	19.9315
Total	0.0130	0.1653	0.1439	2.1000e-004		9.1800e-003	9.1800e-003		8.4400e-003	8.4400e-003	0.0000	19.8060	19.8060	5.9700e-003	0.0000	19.9315

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	6.0000e-005	1.0200e-003	7.4000e-004	0.0000	8.0000e-005	2.0000e-005	1.1000e-004	2.0000e-005	2.0000e-005	4.0000e-005	0.0000	0.2818	0.2818	0.0000	0.0000	0.2818
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	0.0000	0.0000
Worker	0.0827	0.1990	1.6369	2.0900e-003	0.1899	1.2100e-003	0.1911	0.0504	1.1100e-003	0.0515	0.0000	151.5773	151.5773	0.0123	0.0000	151.8346
Total	0.0827	0.2000	1.6377	2.0900e-003	0.1900	1.2300e-003	0.1913	0.0504	1.1300e-003	0.0515	0.0000	151.8591	151.8591	0.0123	0.0000	152.1164

3.9 Above Grade Electrical - 2016**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	5.1700e-003	0.1180	0.1593	2.1000e-004		8.2700e-003	8.2700e-003		8.2700e-003	8.2700e-003	0.0000	19.8060	19.8060	5.9700e-003	0.0000	19.9314
Total	5.1700e-003	0.1180	0.1593	2.1000e-004		8.2700e-003	8.2700e-003		8.2700e-003	8.2700e-003	0.0000	19.8060	19.8060	5.9700e-003	0.0000	19.9314

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	6.0000e-005	1.0200e-003	7.4000e-004	0.0000	8.0000e-005	2.0000e-005	1.1000e-004	2.0000e-005	2.0000e-005	4.0000e-005	0.0000	0.2818	0.2818	0.0000	0.0000	0.2818
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	0.0000	0.0000
Worker	0.0827	0.1990	1.6369	2.0900e-003	0.1899	1.2100e-003	0.1911	0.0504	1.1100e-003	0.0515	0.0000	151.5773	151.5773	0.0123	0.0000	151.8346
Total	0.0827	0.2000	1.6377	2.0900e-003	0.1900	1.2300e-003	0.1913	0.0504	1.1300e-003	0.0515	0.0000	151.8591	151.8591	0.0123	0.0000	152.1164

3.10 Module Installation - 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	1.0100e-003	0.0127	0.0100	1.0000e-005		7.4000e-004	7.4000e-004		6.8000e-004	6.8000e-004	0.0000	1.3826	1.3826	4.1000e-004	0.0000	1.3913
Total	1.0100e-003	0.0127	0.0100	1.0000e-005		7.4000e-004	7.4000e-004		6.8000e-004	6.8000e-004	0.0000	1.3826	1.3826	4.1000e-004	0.0000	1.3913

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	2.0000e-005	1.0000e-005	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	3.9100e-003	3.9100e-003	0.0000	0.0000	3.9200e-003
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	0.0000	0.0000
Worker	1.2900e-003	3.0500e-003	0.0254	3.0000e-005	2.6300e-003	2.0000e-005	2.6400e-003	7.0000e-004	2.0000e-005	7.1000e-004	0.0000	2.1825	2.1825	1.8000e-004	0.0000	2.1864
Total	1.2900e-003	3.0700e-003	0.0254	3.0000e-005	2.7000e-003	2.0000e-005	2.7100e-003	7.2000e-004	2.0000e-005	7.3000e-004	0.0000	2.1864	2.1864	1.8000e-004	0.0000	2.1903

3.10 Module Installation - 2015**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	3.6000e-004	8.1500e-003	0.0110	1.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	1.3826	1.3826	4.1000e-004	0.0000	1.3913
Total	3.6000e-004	8.1500e-003	0.0110	1.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	1.3826	1.3826	4.1000e-004	0.0000	1.3913

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	2.0000e-005	1.0000e-005	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	3.9100e-003	3.9100e-003	0.0000	0.0000	3.9200e-003
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	0.0000	0.0000
Worker	1.2900e-003	3.0500e-003	0.0254	3.0000e-005	2.6300e-003	2.0000e-005	2.6400e-003	7.0000e-004	2.0000e-005	7.1000e-004	0.0000	2.1825	2.1825	1.8000e-004	0.0000	2.1864
Total	1.2900e-003	3.0700e-003	0.0254	3.0000e-005	2.7000e-003	2.0000e-005	2.7100e-003	7.2000e-004	2.0000e-005	7.3000e-004	0.0000	2.1864	2.1864	1.8000e-004	0.0000	2.1903

3.10 Module Installation - 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	0.0715	0.9105	0.7923	1.1600e-003		0.0505	0.0505		0.0465	0.0465	0.0000	109.0699	109.0699	0.0329	0.0000	109.7608
Total	0.0715	0.9105	0.7923	1.1600e-003		0.0505	0.0505		0.0465	0.0465	0.0000	109.0699	109.0699	0.0329	0.0000	109.7608

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	7.0000e-005	1.1100e-003	8.1000e-004	0.0000	9.0000e-005	3.0000e-005	1.1000e-004	2.0000e-005	2.0000e-005	5.0000e-005	0.0000	0.3078	0.3078	0.0000	0.0000	0.3078
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	0.0000	0.0000
Worker	0.0911	0.2192	1.8029	2.3000e-003	0.2092	1.3300e-003	0.2105	0.0555	1.2200e-003	0.0567	0.0000	166.9446	166.9446	0.0135	0.0000	167.2279
Total	0.0911	0.2203	1.8037	2.3000e-003	0.2093	1.3600e-003	0.2106	0.0555	1.2400e-003	0.0568	0.0000	167.2524	167.2524	0.0135	0.0000	167.5358

3.10 Module Installation - 2016**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	0.0285	0.6497	0.8773	1.1600e-003		0.0455	0.0455		0.0455	0.0455	0.0000	109.0697	109.0697	0.0329	0.0000	109.7606
Total	0.0285	0.6497	0.8773	1.1600e-003		0.0455	0.0455		0.0455	0.0455	0.0000	109.0697	109.0697	0.0329	0.0000	109.7606

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	7.0000e-005	1.1100e-003	8.1000e-004	0.0000	9.0000e-005	3.0000e-005	1.1000e-004	2.0000e-005	2.0000e-005	5.0000e-005	0.0000	0.3078	0.3078	0.0000	0.0000	0.3078
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	0.0000	0.0000
Worker	0.0911	0.2192	1.8029	2.3000e-003	0.2092	1.3300e-003	0.2105	0.0555	1.2200e-003	0.0567	0.0000	166.9446	166.9446	0.0135	0.0000	167.2279
Total	0.0911	0.2203	1.8037	2.3000e-003	0.2093	1.3600e-003	0.2106	0.0555	1.2400e-003	0.0568	0.0000	167.2524	167.2524	0.0135	0.0000	167.5358

3.11 O&M Building - 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	0.0578	0.6691	0.3491	5.7000e-004		0.0319	0.0319		0.0294	0.0294	0.0000	54.0908	54.0908	0.0163	0.0000	54.4334
Total	0.0578	0.6691	0.3491	5.7000e-004		0.0319	0.0319		0.0294	0.0294	0.0000	54.0908	54.0908	0.0163	0.0000	54.4334

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	7.0000e-005	1.1300e-003	8.2000e-004	0.0000	9.0000e-005	3.0000e-005	1.1000e-004	2.0000e-005	2.0000e-005	5.0000e-005	0.0000	0.3117	0.3117	0.0000	0.0000	0.3117
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	0.0000	0.0000
Worker	0.0301	0.0725	0.5959	7.6000e-004	0.0691	4.4000e-004	0.0696	0.0183	4.0000e-004	0.0188	0.0000	55.1825	55.1825	4.4600e-003	0.0000	55.2762
Total	0.0302	0.0736	0.5968	7.6000e-004	0.0692	4.7000e-004	0.0697	0.0184	4.2000e-004	0.0188	0.0000	55.4942	55.4942	4.4600e-003	0.0000	55.5879

3.11 O&M Building - 2016**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	0.0142	0.2742	0.3817	5.7000e-004		0.0120	0.0120		0.0120	0.0120	0.0000	54.0907	54.0907	0.0163	0.0000	54.4333
Total	0.0142	0.2742	0.3817	5.7000e-004		0.0120	0.0120		0.0120	0.0120	0.0000	54.0907	54.0907	0.0163	0.0000	54.4333

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	7.0000e-005	1.1300e-003	8.2000e-004	0.0000	9.0000e-005	3.0000e-005	1.1000e-004	2.0000e-005	2.0000e-005	5.0000e-005	0.0000	0.3117	0.3117	0.0000	0.0000	0.3117
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	0.0000	0.0000
Worker	0.0301	0.0725	0.5959	7.6000e-004	0.0691	4.4000e-004	0.0696	0.0183	4.0000e-004	0.0188	0.0000	55.1825	55.1825	4.4600e-003	0.0000	55.2762
Total	0.0302	0.0736	0.5968	7.6000e-004	0.0692	4.7000e-004	0.0697	0.0184	4.2000e-004	0.0188	0.0000	55.4942	55.4942	4.4600e-003	0.0000	55.5879

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	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	0.0000
Unmitigated	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	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
User Defined Industrial	6.70	5.00	8.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.452463	0.070907	0.165532	0.163183	0.043777	0.005595	0.012812	0.078576	0.001869	0.000152	0.002393	0.000687	0.002054

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

[illegible]

5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

5.2 Energy by Land Use - NaturalGas

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	tons/yr										MT/yr					
User Defined Industrial	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	0.0000
Total		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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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	2.5700e-003	2.5000e-004	0.0263	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0499	0.0499	1.4000e-004	0.0000	0.0529
Unmitigated	2.5700e-003	2.5000e-004	0.0263	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0499	0.0499	1.4000e-004	0.0000	0.0529

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					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.5700e-003	2.5000e-004	0.0263	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0499	0.0499	1.4000e-004	0.0000	0.0529
Total	2.5700e-003	2.5000e-004	0.0263	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0499	0.0499	1.4000e-004	0.0000	0.0529

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					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.5700e-003	2.5000e-004	0.0263	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0499	0.0499	1.4000e-004	0.0000	0.0529
Total	2.5700e-003	2.5000e-004	0.0263	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0499	0.0499	1.4000e-004	0.0000	0.0529

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/ Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Mitigated

	Indoor/ Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

Wistaria Ranch Solar Energy Center

Operational Emissions Summary

	Total Daily Emissions (pounds/day)						Total Annual Emissions (metric tons/year)
	ROG	NOX	CO	SO2	PM10	PM2.5	CO2e
Operations and Maintenance Vehicles	2.34	26.34	17.64	0.06	44.35	7.34	321
Electricity							1,721
Water							126
Wastewater							30
Gas Insulated Switchgear							52
Total	2.34	26.34	17.64	0.06	44.35	7.34	2,250

Wistaria Ranch Solar Energy Center

Off-Road Equipment

					Emissions Summary (lbs/day)						Emissions Summary (metric tons per year)			
Equipment Type	Equipment Category	Number	HP	Usage Factor (hrs/day)	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	CO ₂	CH ₄	N ₂ O	CO ₂ e
Generators	Generator Sets	17	250	1	1.85	23.42	7.05	0.04	0.65	0.60	82.19	0.004	0.00	82
Total					1.85	23.42	7.05	0.04	0.65	0.60	82.19	0.004	0.00	82

Notes:
Assumes 1 generator per project phase

On-Road Motor Vehicles

					Emissions Summary (lbs/day)						Emissions Summary (metric tons per year)			
	Total Trips	Distance	Average Daily Mileage	Annual Mileage	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	CO ₂	CH ₄	N ₂ O	CO ₂ e
Worker Trips	30	40	2,400	633,600	0.41	2.50	9.07	0.02	0.32	0.17	196.71	0.02	0.02	204
Pickup Trucks	4	50	400	105,600	0.07	0.42	1.51	0.00	0.05	0.03	32.78	0.003	0.004	34
Total					0.48	2.92	10.59	0.02	0.38	0.20	229.49	0.02	0.03	238

Notes:
Assumes a maximum of 6 full-time employees and 2 trips per employee per day.
Assumes 4 pickup trucks would operate for 2 hours per day at 25 mph.

					Emissions Summary (lbs/day)						Emissions Summary (metric tons per year)			
Total					ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	CO ₂	CH ₄	N ₂ O	CO ₂ e
					2.34	26.34	17.64	0.06	1.02	0.80	311.68	0.02	0.03	321

Global Warming Potential

Gas	Atmospheric Lifetime (years)	Global Warming Potential (100 year time horizon)
Carbon Dioxide	50-200	1
Methane	12 ± 3	21
Nitrous Oxide	120	310

IPCC, Second Assessment Report. 1995.

	Operational Days Per Year
Generators	50
On-Road Vehicles	264

Wistaria Ranch Solar Energy Center

Daily On-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions												
Vehicle Type	No.	Mi/Veh-Day	Surface Type	Silt Loading (g/m ²)/ Silt Content (%)	Vehicle Weight (tons)	Uncontrolled Emission Factors (lb/mi)		Uncontrolled Emissions (lb/day)		Control Efficiency	Controlled Emissions (lb/day)	
						PM10	PM2.5	PM10	PM2.5		PM10	PM2.5
Pickup Trucks	4	50	Unpaved	6	2.4	4.81E-01	7.27E-02	96.3	14.5	55%	43.3	6.5

Note: Totals may not match sum of individual values because of rounding.

Equations:

$$EF (\text{unpaved}) = k_u (s/12)^a (W/3)^b$$

Ref: AP-42, Section 13.2.2, "Unpaved Roads," November 2006

Constants:

$k_u =$	1.5	(Particle size multiplier for PM)
	0.15	(Particle size multiplier for PM2.5)
$a =$	0.9	for PM10
	0.9	for PM2.5
$b =$	0.45	for PM10
	0.45	for PM2.5

Wistaria Ranch Solar Energy Center

Electricity-Related GHG Emissions

Number of Solar Array Blocks	Number of PV units	Solar Array Block Annual Energy usage (kWh)	Tracker annual kWh usage	Total Annual kWh	CO ₂ (lbs/kWh)	CH ₄ (lbs/kWh)	N ₂ O (lbs/kWh)	Annual Emissions (MT CO ₂ e/yr)
191	11,213	228,386	3,819,260	4,047,646	0.93251	0.000029	0.000014	1,721

Notes:
CO2 emission factor for IID estimated from 2020 emission factor with 33% renewable energy
CH4 and N2O emission factor from LGOP Table G.7 California Grid Average Electricity Emission Factors (1990-2007)
Number of PV Units estimated from similar solar projects and most recent project description

Equipment	Electricity Draw (watts)	Daily Energy Usage (kWh)	Annual Energy Usage (kWh)
Per Tracker:			
Tracker Control Unit:	50	0.6	219
Tracker Motor:	250	0.1	18
Air Drying Unit:	192	0.192	103
Total Per Tracker			341
Per Building Block:			
Inverters:	100		438
PV Box Ventilation:	173		758
Total Per Building Block			1196

Note: Equipment energy usage information and assumptions based on comparable solar projects

Assumptions:

- The tracker control unit only uses energy during daylight hours (12 hours per day)
- Each tracker motor runs for one minute every hour
- The air drying system runs one hour per day and for 10 hours every 3 weeks

2020 Emission Factor W/ 33% renewable (lbs/kWh)
0.932512046

X = Current Electricity Emissions Estimate
Y = % renewable at the time of the estimate
Z = What emissions will be in 2020 given the RPS at full implementation (33%)

Formula:
 $Z = 67\% * (X / (1 - Y))$

Wistaria Ranch Solar Energy Center

Water Use Estimates

	Total Estimated Water Demand (acre-feet)	Energy Factor for Outdoor water use for Southern CA (kWh/MG) ¹	MWh	Emission Factor CO ₂ ² (lb/MWh)	Emission Factor CH ₄ ² (lb/MWh)	Emission Factor N ₂ O ² (lb/MWh)	Total CO ₂ e Emissions (MT CO ₂ e/yr)
Construction	1,200.00	11,110	4,344.25	1,271	0.029	0.01	2,519.63
2015	400.00	11,110	1,448.08	1,271	0.029	0.01	839.88
2016	800.00	11,110	2,896.16	1,271	0.029	0.01	1,679.75
Operations	60.00	11,110	217.21	1,271	0.029	0.01	125.98

Notes: Water demand based on estimates in the project description.

Source:

1. Emission factor for the Imperial Irrigation District.
2. Emission factor: LGOP 2010 V1.1 Table G.7 California Grid Average Electricity Emission Factors (1990-2007)

Wistaria Ranch Solar Energy Center

Wastewater Use Estimates

Influent Emissions

Influent (gal/yr)	Influent BOD * (mg/L)	Influent BOD (kg/yr)	Adjusted BOD Emission Factor (kg CH4/kg BOD)	Influent Emissions (MT CO ₂ e)
6,517,020	439	10,829	0.12	27.29

Effluent Emissions

Effluent (gal/yr)	Effluent Nitrogen Content (mg/L)	Effluent Nitrogen Content (kg/yr)	N2O Emissions (kg/yr)	Effluent Emissions (MT CO ₂ e)
6,517,020	40	986.68	8	2.40

Total Emissions (MT CO ₂ e)	29.69
--	-------

Note: Estimates of influent and effluent assume all water will be treated. This is a conservative estimate, since a majority of water used on site will not be treated.

Source: Intergovernmental Panel on Climate Change 2006. IPCC Guidelines for National Greenhouse Gas Inventories; Chapter 6: Wastewater Treatment and Discharge

EMISSION FACTORS

Methane Emissions

EmisFact (kg CH4/kg BOD) (EF = Max CH4 * MCF)	Max CH4 Producing Capacity (kg CH4/kg BOD)	Methane Correction Factor	GWP
0.12	0.6	0.2	21

Equation 6.2 IPCC Chapter 6

Nitrogen Emissions

EF _{Effluent} (kg N2O-N/kg N)	Molecular Weight Ratio (N2O/N2)	GWP
0.005	1.57	310

Wistaria Ranch Solar Energy Center

Gas-Insulated Switchgear

SF ₆ Capacity ¹	lbs	960
Leakage Rate ²	%/year	0.5%
Annual Leakage	lbs SF ₆ /year	4.8
GWP SF ₆		23,900
Annual Emissions	MT CO ₂ E/year	52.20

Notes:

1. Email from Mitch Hawk to AECOM dated 2/20/13
2. Typical upper-bound leakage rate for new devices.
NEMA Guideline - 0.1%/year
IEC Specification - 0.5%/year

Imperial County 2015 On-Road Emission Factors

VEH	FUEL	MDLYR	SPEED	POP	VMT	TRIPS	ROG_RUNEX	CO_RUNEX	NOX_RUNEX	CO2_RUNEX	SOX_RUNEX	PM10_Total	PM2_5_Total	CH4	N2O
			(Miles/hr)	(Vehicles)	(Miles/day)	(Trips/day)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)
LDA	GAS	AllMYr	AllSpeeds	68,830	4,021,001	434,004	0.128	2.853	0.375	269.355	0.003	0.046	0.019		
LDA	DSL	AllMYr	AllSpeeds	218	12,109	1,301	0.031	0.164	0.481	288.220	0.003	0.067	0.038		
LDT1	GAS	AllMYr	AllSpeeds	11,149	627,516	67,851	0.153	4.388	0.474	316.094	0.004	0.048	0.021		
LDT1	DSL	AllMYr	AllSpeeds	13.5091116	725	75	0.049	0.227	0.604	293.721	0.003	0.084	0.054		
LDT2	GAS	AllMYr	AllSpeeds	24,699	1,471,558	155,355	0.071	2.480	0.320	389.128	0.004	0.047	0.019		
LDT2	DSL	AllMYr	AllSpeeds	14.5467315	846	86	0.037	0.198	0.591	304.371	0.003	0.072	0.043		
Average							0.078	1.718	0.474	310.148	0.004	0.061	0.033	0.028	0.037

Source: EMFAC 2011

VEH	FUEL	MDLYR	SPEED	POP	VMT	TRIPS	ROG_RUNEX	CO_RUNEX	NOX_RUNEX	CO2_RUNEX	SOX_RUNEX	PM10_Total	PM2_5_Total	CH4	N2O
			(Miles/hr)	(Vehicles)	(Miles/day)	(Trips/day)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)
T7 tractor	DSL	AllMYr	AllSpeeds	661	87,732	0	0.259	1.340	11.561	1587.285	0.016	0.295	0.217	0.0051	0.0048

Source: EMFAC 2011

Wistaria Ranch Solar Energy Center
Imperial County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	223.68	User Defined Unit	223.68	0.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.4	Precipitation Freq (Days)	12
Climate Zone	15			Operational Year	2016
Utility Company	Imperial Irrigation District				
CO2 Intensity (lb/MWhr)	1270.9	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Estimated acreage based on most recent project description for CUP 13-0037

Construction Phase - Estimated construction schedule provided by project applicant

Off-road Equipment - Estimated construction equipment per project applicant.

Off-road Equipment - Estimated construction equipment per project applicant.

Off-road Equipment - Estimated construction equipment per project applicant.

Off-road Equipment - Estimated construction equipment per project applicant.

Off-road Equipment - Estimated construction equipment per project applicant.

Off-road Equipment - Estimated construction equipment per project applicant.

Off-road Equipment - Estimated construction equipment per project applicant.

Off-road Equipment - Estimated construction equipment per project applicant.

Off-road Equipment - Estimated construction equipment per project applicant.

Off-road Equipment - Estimated construction equipment per project applicant.

Trips and VMT - Construction worker and truck trips are based on information provided by the applicant

On-road Fugitive Dust - Assumes travel on paved roads

Grading - Estimated disturbed acreage based on project area and construction schedule

Vehicle Trips - Does not include estimates of operational emissions.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Water And Wastewater -

Construction Off-road Equipment Mitigation - Includes mitigation to Tier 3 engines for all equipment greater than 50 hp.

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	100
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstructionPhase	NumDays	4,650.00	118.00
tblConstructionPhase	NumDays	4,650.00	115.00
tblConstructionPhase	NumDays	4,650.00	76.00
tblConstructionPhase	NumDays	4,650.00	100.00
tblConstructionPhase	NumDays	4,650.00	60.00
tblConstructionPhase	NumDays	180.00	18.00
tblConstructionPhase	NumDays	180.00	30.00
tblConstructionPhase	PhaseEndDate	3/3/2016	1/5/2016

tblConstructionPhase	PhaseEndDate	1/6/2016	1/5/2016
tblConstructionPhase	PhaseEndDate	2/12/2016	1/18/2016
tblConstructionPhase	PhaseEndDate	3/28/2016	12/18/2015
tblConstructionPhase	PhaseEndDate	5/6/2016	1/24/2016
tblConstructionPhase	PhaseEndDate	2/19/2016	12/11/2015
tblConstructionPhase	PhaseEndDate	2/16/2016	9/4/2015
tblConstructionPhase	PhaseEndDate	5/9/2016	12/11/2015
tblConstructionPhase	PhaseEndDate	4/15/2016	11/27/2015
tblConstructionPhase	PhaseStartDate	12/12/2015	10/15/2015
tblConstructionPhase	PhaseStartDate	7/25/2015	7/24/2015
tblConstructionPhase	PhaseStartDate	9/5/2015	8/11/2015
tblConstructionPhase	PhaseStartDate	12/12/2015	9/4/2015
tblConstructionPhase	PhaseStartDate	12/19/2015	9/6/2015
tblConstructionPhase	PhaseStartDate	11/28/2015	9/21/2015
tblConstructionPhase	PhaseStartDate	1/6/2016	7/27/2015
tblConstructionPhase	PhaseStartDate	1/19/2016	8/24/2015
tblConstructionPhase	PhaseStartDate	1/25/2016	9/7/2015
tblGrading	AcresOfGrading	30.00	223.68
tblLandUse	LotAcreage	0.00	223.68
tblOffRoadEquipment	HorsePower	226.00	200.00
tblOffRoadEquipment	HorsePower	226.00	200.00
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tblOffRoadEquipment	HorsePower	97.00	150.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00

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tblOffRoadEquipment	PhaseName		Miscellaneous
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Site Preparation

tblOffRoadEquipment	PhaseName		Transmission Line
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tblOffRoadEquipment	UsageHours	7.00	5.00
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tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00

[illegible]

[illegible]

tblTripsAndVMT	WorkerTripLength	10.20	40.00
tblTripsAndVMT	WorkerTripLength	10.20	40.00
tblTripsAndVMT	WorkerTripNumber	8.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	23.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblVehicleTrips	CC_TL	9.50	5.00
tblVehicleTrips	CNW_TL	11.90	8.90
tblVehicleTrips	CW_TL	16.40	6.70

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					
2015	9.8625	105.8554	68.4591	0.1138	9.4297	4.6576	14.0873	1.2575	4.2966	5.5541	0.0000	11,539.88 65	11,539.88 65	3.1025	0.0000	11,605.03 85
2016	3.5130	33.7576	29.7087	0.0446	1.2378	1.5476	2.7854	0.3278	1.4342	1.7620	0.0000	4,281.906 1	4,281.906 1	1.0108	0.0000	4,303.133 7
Total	13.3755	139.6130	98.1678	0.1584	10.6675	6.2052	16.8727	1.5853	5.7308	7.3161	0.0000	15,821.79 26	15,821.79 26	4.1133	0.0000	15,908.17 22

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					
2015	3.9226	50.0402	75.6603	0.1138	4.5471	2.2163	6.7634	0.7303	2.1912	2.9215	0.0000	11,539.8865	11,539.8865	3.1025	0.0000	11,605.0385
2016	1.3870	16.1155	31.0427	0.0446	1.2378	0.6944	1.9322	0.3278	0.6937	1.0215	0.0000	4,281.9061	4,281.9061	1.0108	0.0000	4,303.1337
Total	5.3096	66.1557	106.7029	0.1584	5.7849	2.9107	8.6956	1.0581	2.8850	3.9431	0.0000	15,821.7926	15,821.7926	4.1133	0.0000	15,908.1722

	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	60.30	52.61	-8.69	0.00	45.77	53.09	48.46	33.26	49.66	46.10	0.00	0.00	0.00	0.00	0.00	0.00

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	2.2800e-003	2.2000e-004	0.0234	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0490	0.0490	1.4000e-004		0.0519
Energy	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
Mobile	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
Total	2.2800e-003	2.2000e-004	0.0234	0.0000	0.0000	8.0000e-005	8.0000e-005	0.0000	8.0000e-005	8.0000e-005		0.0490	0.0490	1.4000e-004	0.0000	0.0519

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	2.2800e-003	2.2000e-004	0.0234	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0490	0.0490	1.4000e-004		0.0519
Energy	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
Mobile	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
Total	2.2800e-003	2.2000e-004	0.0234	0.0000	0.0000	8.0000e-005	8.0000e-005	0.0000	8.0000e-005	8.0000e-005		0.0490	0.0490	1.4000e-004	0.0000	0.0519

	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	Mobilization	Site Preparation	7/1/2015	7/24/2015	5	18	
2	Miscellaneous	Building Construction	7/24/2015	1/5/2016	5	118	
3	Site Preparation	Site Preparation	7/27/2015	9/4/2015	5	30	
4	Substation	Building Construction	8/11/2015	1/18/2016	5	115	
5	Post Installation	Trenching	8/24/2015	12/11/2015	5	80	
6	O&M Building	Building Construction	9/4/2015	12/18/2015	5	76	
7	Transmission Line	Building Construction	9/6/2015	1/24/2016	5	100	
8	Below Grade Electrical	Trenching	9/7/2015	11/27/2015	5	60	
9	Above Grade Electrical	Building Construction	9/21/2015	12/11/2015	5	60	
10	Module Installation	Building Construction	10/15/2015	1/5/2016	5	59	

Acres of Grading (Site Preparation Phase): 223.68

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Mobilization	Off-Highway Trucks	3	2.00	350	0.38

Miscellaneous	Air Compressors	2	2.00	75	0.48
Miscellaneous	Generator Sets	3	8.00	5	0.74
Miscellaneous	Off-Highway Trucks	1	1.00	180	0.38
Miscellaneous	Off-Highway Trucks	1	2.00	350	0.38
Miscellaneous	Plate Compactors	2	1.00	15	0.43
Site Preparation	Graders	1	8.00	200	0.41
Site Preparation	Off-Highway Tractors	1	8.00	250	0.44
Site Preparation	Off-Highway Trucks	2	8.00	300	0.38
Site Preparation	Off-Highway Trucks	1	4.00	300	0.38
Site Preparation	Plate Compactors	1	3.00	100	0.43
Site Preparation	Rough Terrain Forklifts	1	2.00	75	0.40
Site Preparation	Scrapers	1	4.00	300	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	150	0.37
Substation	Cranes	2	5.00	200	0.29
Substation	Tractors/Loaders/Backhoes	2	7.00	150	0.37
Post Installation	Bore/Drill Rigs	2	8.00	45	0.50
Post Installation	Rough Terrain Forklifts	2	7.00	75	0.40
O&M Building	Cranes	2	5.00	200	0.29
O&M Building	Tractors/Loaders/Backhoes	2	7.00	150	0.37
Transmission Line	Aerial Lifts	2	2.00	110	0.31
Transmission Line	Cranes	1	2.00	500	0.29
Transmission Line	Cranes	1	2.00	220	0.29
Transmission Line	Off-Highway Trucks	2	2.00	210	0.38
Below Grade Electrical	Excavators	2	7.00	45	0.38
Below Grade Electrical	Tractors/Loaders/Backhoes	1	7.00	150	0.37
Below Grade Electrical	Trenchers	1	4.00	100	0.50
Above Grade Electrical	Rough Terrain Forklifts	1	2.00	75	0.40
Module Installation	Rough Terrain Forklifts	2	2.00	75	0.40

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
Mobilization	3	10.00	0.00	1.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Miscellaneous	9	10.00	0.00	1.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	9	10.00	0.00	1.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Substation	4	10.00	0.00	1.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Post Installation	4	10.00	0.00	1.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
O&M Building	4	10.00	0.00	1.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Transmission Line	6	10.00	0.00	1.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Below Grade Electrical	4	10.00	0.00	1.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Above Grade Electrical	1	10.00	0.00	1.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Module Installation	2	10.00	0.00	1.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Mobilization - 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6764	7.9660	3.5832	8.6500e-003		0.3043	0.3043		0.2799	0.2799		907.5150	907.5150	0.2709		913.2045
Total	0.6764	7.9660	3.5832	8.6500e-003	0.0000	0.3043	0.3043	0.0000	0.2799	0.2799		907.5150	907.5150	0.2709		913.2045

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	1.7100e-003	0.0269	0.0197	8.0000e-005	1.9400e-003	6.7000e-004	2.6100e-003	5.3000e-004	6.1000e-004	1.1500e-003		7.7401	7.7401	5.0000e-005		7.7411
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	0.1749	0.3161	3.3296	3.4200e-003	0.3040	2.0700e-003	0.3061	0.0806	1.8900e-003	0.0825		283.4722	283.4722	0.0234		283.9641
Total	0.1766	0.3430	3.3493	3.5000e-003	0.3059	2.7400e-003	0.3087	0.0811	2.5000e-003	0.0836		291.2124	291.2124	0.0235		291.7052

3.2 Mobilization - 2015**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2111	4.0816	4.5742	8.6500e-003		0.1548	0.1548		0.1548	0.1548	0.0000	907.5150	907.5150	0.2709		913.2045
Total	0.2111	4.0816	4.5742	8.6500e-003	0.0000	0.1548	0.1548	0.0000	0.1548	0.1548	0.0000	907.5150	907.5150	0.2709		913.2045

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	1.7100e-003	0.0269	0.0197	8.0000e-005	1.9400e-003	6.7000e-004	2.6100e-003	5.3000e-004	6.1000e-004	1.1500e-003		7.7401	7.7401	5.0000e-005		7.7411
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	0.1749	0.3161	3.3296	3.4200e-003	0.3040	2.0700e-003	0.3061	0.0806	1.8900e-003	0.0825		283.4722	283.4722	0.0234		283.9641
Total	0.1766	0.3430	3.3493	3.5000e-003	0.3059	2.7400e-003	0.3087	0.0811	2.5000e-003	0.0836		291.2124	291.2124	0.0235		291.7052

3.3 Miscellaneous - 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	lb/day										lb/day					
Off-Road	0.5763	5.2113	2.7986	5.7400e-003		0.2818	0.2818		0.2709	0.2709		575.6582	575.6582	0.1383		578.5634
Total	0.5763	5.2113	2.7986	5.7400e-003		0.2818	0.2818		0.2709	0.2709		575.6582	575.6582	0.1383		578.5634

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	2.6000e-004	4.1100e-003	3.0000e-003	1.0000e-005	3.0000e-004	1.0000e-004	4.0000e-004	8.0000e-005	9.0000e-005	1.8000e-004		1.1807	1.1807	1.0000e-005		1.1808
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	0.1749	0.3161	3.3296	3.4200e-003	0.3040	2.0700e-003	0.3061	0.0806	1.8900e-003	0.0825		283.4722	283.4722	0.0234		283.9641
Total	0.1751	0.3202	3.3326	3.4300e-003	0.3043	2.1700e-003	0.3065	0.0807	1.9800e-003	0.0827		284.6529	284.6529	0.0234		285.1449

3.3 Miscellaneous - 2015**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	0.1454	2.6980	3.1901	5.7400e-003		0.1304	0.1304		0.1304	0.1304	0.0000	575.6582	575.6582	0.1383		578.5634
Total	0.1454	2.6980	3.1901	5.7400e-003		0.1304	0.1304		0.1304	0.1304	0.0000	575.6582	575.6582	0.1383		578.5634

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	2.6000e-004	4.1100e-003	3.0000e-003	1.0000e-005	3.0000e-004	1.0000e-004	4.0000e-004	8.0000e-005	9.0000e-005	1.8000e-004		1.1807	1.1807	1.0000e-005		1.1808
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	0.1749	0.3161	3.3296	3.4200e-003	0.3040	2.0700e-003	0.3061	0.0806	1.8900e-003	0.0825		283.4722	283.4722	0.0234		283.9641
Total	0.1751	0.3202	3.3326	3.4300e-003	0.3043	2.1700e-003	0.3065	0.0807	1.9800e-003	0.0827		284.6529	284.6529	0.0234		285.1449

3.3 Miscellaneous - 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	lb/day										lb/day					
Off-Road	0.5283	4.7401	2.6869	5.7400e-003		0.2515	0.2515		0.2418	0.2418		571.3459	571.3459	0.1360		574.2017
Total	0.5283	4.7401	2.6869	5.7400e-003		0.2515	0.2515		0.2418	0.2418		571.3459	571.3459	0.1360		574.2017

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	2.2000e-004	3.4900e-003	2.7200e-003	1.0000e-005	8.8900e-003	9.0000e-005	8.9700e-003	2.1900e-003	8.0000e-005	2.2700e-003		1.1652	1.1652	1.0000e-005		1.1653
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	0.1547	0.2853	2.9653	3.4100e-003	0.3040	1.9200e-003	0.3059	0.0806	1.7600e-003	0.0824		272.2015	272.2015	0.0215		272.6521
Total	0.1549	0.2888	2.9680	3.4200e-003	0.3129	2.0100e-003	0.3149	0.0828	1.8400e-003	0.0846		273.3667	273.3667	0.0215		273.8174

3.3 Miscellaneous - 2016**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	0.1454	2.6980	3.1901	5.7400e-003		0.1304	0.1304		0.1304	0.1304	0.0000	571.3459	571.3459	0.1360		574.2017
Total	0.1454	2.6980	3.1901	5.7400e-003		0.1304	0.1304		0.1304	0.1304	0.0000	571.3459	571.3459	0.1360		574.2017

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	2.2000e-004	3.4900e-003	2.7200e-003	1.0000e-005	8.8900e-003	9.0000e-005	8.9700e-003	2.1900e-003	8.0000e-005	2.2700e-003		1.1652	1.1652	1.0000e-005		1.1653
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	0.1547	0.2853	2.9653	3.4100e-003	0.3040	1.9200e-003	0.3059	0.0806	1.7600e-003	0.0824		272.2015	272.2015	0.0215		272.6521
Total	0.1549	0.2888	2.9680	3.4200e-003	0.3129	2.0100e-003	0.3149	0.0828	1.8400e-003	0.0846		273.3667	273.3667	0.0215		273.8174

3.4 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					7.9071	0.0000	7.9071	0.8538	0.0000	0.8538			0.0000			0.0000
Off-Road	4.3389	54.7954	23.9144	0.0528		2.1077	2.1077		1.9390	1.9390		5,544.413 3	5,544.413 3	1.6552		5,579.173 3
Total	4.3389	54.7954	23.9144	0.0528	7.9071	2.1077	10.0147	0.8538	1.9390	2.7928		5,544.413 3	5,544.413 3	1.6552		5,579.173 3

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	1.0300e-003	0.0162	0.0118	5.0000e-005	1.1700e-003	4.0000e-004	1.5700e-003	3.2000e-004	3.7000e-004	6.9000e-004		4.6441	4.6441	3.0000e-005		4.6447
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	0.1749	0.3161	3.3296	3.4200e-003	0.3040	2.0700e-003	0.3061	0.0806	1.8900e-003	0.0825		283.4722	283.4722	0.0234		283.9641
Total	0.1759	0.3322	3.3414	3.4700e-003	0.3052	2.4700e-003	0.3076	0.0809	2.2600e-003	0.0832		288.1163	288.1163	0.0235		288.6087

3.4 Site Preparation - 2015**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					3.0245	0.0000	3.0245	0.3266	0.0000	0.3266			0.0000			0.0000
Off-Road	1.2953	25.0973	29.2862	0.0528		0.9871	0.9871		0.9871	0.9871	0.0000	5,544.413 3	5,544.413 3	1.6552		5,579.173 3
Total	1.2953	25.0973	29.2862	0.0528	3.0245	0.9871	4.0116	0.3266	0.9871	1.3137	0.0000	5,544.413 3	5,544.413 3	1.6552		5,579.173 3

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	1.0300e-003	0.0162	0.0118	5.0000e-005	1.1700e-003	4.0000e-004	1.5700e-003	3.2000e-004	3.7000e-004	6.9000e-004		4.6441	4.6441	3.0000e-005		4.6447
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	0.1749	0.3161	3.3296	3.4200e-003	0.3040	2.0700e-003	0.3061	0.0806	1.8900e-003	0.0825		283.4722	283.4722	0.0234		283.9641
Total	0.1759	0.3322	3.3414	3.4700e-003	0.3052	2.4700e-003	0.3076	0.0809	2.2600e-003	0.0832		288.1163	288.1163	0.0235		288.6087

3.5 Substation - 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	lb/day										lb/day					
Off-Road	1.5429	18.0296	8.9701	0.0145		0.8634	0.8634		0.7943	0.7943		1,526.626 1	1,526.626 1	0.4558		1,536.197 1
Total	1.5429	18.0296	8.9701	0.0145		0.8634	0.8634		0.7943	0.7943		1,526.626 1	1,526.626 1	0.4558		1,536.197 1

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	2.7000e-004	4.2100e-003	3.0800e-003	1.0000e-005	3.3000e-004	1.0000e-004	4.4000e-004	9.0000e-005	1.0000e-004	1.9000e-004		1.2115	1.2115	1.0000e-005		1.2117
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	0.1749	0.3161	3.3296	3.4200e-003	0.3040	2.0700e-003	0.3061	0.0806	1.8900e-003	0.0825		283.4722	283.4722	0.0234		283.9641
Total	0.1751	0.3203	3.3327	3.4300e-003	0.3043	2.1700e-003	0.3065	0.0807	1.9900e-003	0.0827		284.6837	284.6837	0.0234		285.1757

3.5 Substation - 2015**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	0.3590	6.9407	9.6626	0.0145		0.3044	0.3044		0.3044	0.3044	0.0000	1,526.626 1	1,526.626 1	0.4558		1,536.197 1
Total	0.3590	6.9407	9.6626	0.0145		0.3044	0.3044		0.3044	0.3044	0.0000	1,526.626 1	1,526.626 1	0.4558		1,536.197 1

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	2.7000e-004	4.2100e-003	3.0800e-003	1.0000e-005	3.3000e-004	1.0000e-004	4.4000e-004	9.0000e-005	1.0000e-004	1.9000e-004		1.2115	1.2115	1.0000e-005		1.2117
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	0.1749	0.3161	3.3296	3.4200e-003	0.3040	2.0700e-003	0.3061	0.0806	1.8900e-003	0.0825		283.4722	283.4722	0.0234		283.9641
Total	0.1751	0.3203	3.3327	3.4300e-003	0.3043	2.1700e-003	0.3065	0.0807	1.9900e-003	0.0827		284.6837	284.6837	0.0234		285.1757

3.5 Substation - 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	lb/day										lb/day					
Off-Road	1.4632	16.9395	8.8387	0.0145		0.8085	0.8085		0.7438	0.7438		1,509.4898	1,509.4898	0.4553		1,519.0514
Total	1.4632	16.9395	8.8387	0.0145		0.8085	0.8085		0.7438	0.7438		1,509.4898	1,509.4898	0.4553		1,519.0514

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	2.3000e-004	3.5800e-003	2.7900e-003	1.0000e-005	2.2800e-003	9.0000e-005	2.3700e-003	5.7000e-004	8.0000e-005	6.5000e-004		1.1956	1.1956	1.0000e-005		1.1957
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	0.1547	0.2853	2.9653	3.4100e-003	0.3040	1.9200e-003	0.3059	0.0806	1.7600e-003	0.0824		272.2015	272.2015	0.0215		272.6521
Total	0.1549	0.2889	2.9680	3.4200e-003	0.3063	2.0100e-003	0.3083	0.0812	1.8400e-003	0.0830		273.3971	273.3971	0.0215		273.8478

3.5 Substation - 2016**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	0.3590	6.9407	9.6626	0.0145		0.3044	0.3044		0.3044	0.3044	0.0000	1,509.4898	1,509.4898	0.4553		1,519.0514
Total	0.3590	6.9407	9.6626	0.0145		0.3044	0.3044		0.3044	0.3044	0.0000	1,509.4898	1,509.4898	0.4553		1,519.0514

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	2.3000e-004	3.5800e-003	2.7900e-003	1.0000e-005	2.2800e-003	9.0000e-005	2.3700e-003	5.7000e-004	8.0000e-005	6.5000e-004		1.1956	1.1956	1.0000e-005		1.1957
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	0.1547	0.2853	2.9653	3.4100e-003	0.3040	1.9200e-003	0.3059	0.0806	1.7600e-003	0.0824		272.2015	272.2015	0.0215		272.6521
Total	0.1549	0.2889	2.9680	3.4200e-003	0.3063	2.0100e-003	0.3083	0.0812	1.8400e-003	0.0830		273.3971	273.3971	0.0215		273.8478

3.6 Post Installation - 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	lb/day										lb/day					
Off-Road	0.9849	8.1722	6.8746	8.9400e-003		0.5301	0.5301		0.4877	0.4877		938.5906	938.5906	0.2802		944.4750
Total	0.9849	8.1722	6.8746	8.9400e-003		0.5301	0.5301		0.4877	0.4877		938.5906	938.5906	0.2802		944.4750

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	3.9000e-004	6.0600e-003	4.4300e-003	2.0000e-005	4.4000e-004	1.5000e-004	5.9000e-004	1.2000e-004	1.4000e-004	2.6000e-004		1.7415	1.7415	1.0000e-005		1.7418
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	0.1749	0.3161	3.3296	3.4200e-003	0.3040	2.0700e-003	0.3061	0.0806	1.8900e-003	0.0825		283.4722	283.4722	0.0234		283.9641
Total	0.1753	0.3222	3.3340	3.4400e-003	0.3044	2.2200e-003	0.3066	0.0807	2.0300e-003	0.0827		285.2138	285.2138	0.0234		285.7058

3.6 Post Installation - 2015**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	0.7833	6.7462	7.1837	8.9400e-003		0.4788	0.4788		0.4547	0.4547	0.0000	938.5906	938.5906	0.2802		944.4750
Total	0.7833	6.7462	7.1837	8.9400e-003		0.4788	0.4788		0.4547	0.4547	0.0000	938.5906	938.5906	0.2802		944.4750

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	3.9000e-004	6.0600e-003	4.4300e-003	2.0000e-005	4.4000e-004	1.5000e-004	5.9000e-004	1.2000e-004	1.4000e-004	2.6000e-004		1.7415	1.7415	1.0000e-005		1.7418
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	0.1749	0.3161	3.3296	3.4200e-003	0.3040	2.0700e-003	0.3061	0.0806	1.8900e-003	0.0825		283.4722	283.4722	0.0234		283.9641
Total	0.1753	0.3222	3.3340	3.4400e-003	0.3044	2.2200e-003	0.3066	0.0807	2.0300e-003	0.0827		285.2138	285.2138	0.0234		285.7058

3.7 O&M Building - 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	lb/day										lb/day					
Off-Road	1.5429	18.0296	8.9701	0.0145		0.8634	0.8634		0.7943	0.7943		1,526.626 1	1,526.626 1	0.4558		1,536.197 1
Total	1.5429	18.0296	8.9701	0.0145		0.8634	0.8634		0.7943	0.7943		1,526.626 1	1,526.626 1	0.4558		1,536.197 1

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	4.1000e-004	6.3800e-003	4.6600e-003	2.0000e-005	4.6000e-004	1.6000e-004	6.2000e-004	1.3000e-004	1.5000e-004	2.7000e-004		1.8332	1.8332	1.0000e-005		1.8334
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	0.1749	0.3161	3.3296	3.4200e-003	0.3040	2.0700e-003	0.3061	0.0806	1.8900e-003	0.0825		283.4722	283.4722	0.0234		283.9641
Total	0.1753	0.3225	3.3343	3.4400e-003	0.3044	2.2300e-003	0.3067	0.0807	2.0400e-003	0.0828		285.3054	285.3054	0.0234		285.7975

3.7 O&M Building - 2015**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	0.3590	6.9407	9.6626	0.0145		0.3044	0.3044		0.3044	0.3044	0.0000	1,526.626 1	1,526.626 1	0.4558		1,536.197 1
Total	0.3590	6.9407	9.6626	0.0145		0.3044	0.3044		0.3044	0.3044	0.0000	1,526.626 1	1,526.626 1	0.4558		1,536.197 1

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	4.1000e-004	6.3800e-003	4.6600e-003	2.0000e-005	4.6000e-004	1.6000e-004	6.2000e-004	1.3000e-004	1.5000e-004	2.7000e-004		1.8332	1.8332	1.0000e-005		1.8334
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	0.1749	0.3161	3.3296	3.4200e-003	0.3040	2.0700e-003	0.3061	0.0806	1.8900e-003	0.0825		283.4722	283.4722	0.0234		283.9641
Total	0.1753	0.3225	3.3343	3.4400e-003	0.3044	2.2300e-003	0.3067	0.0807	2.0400e-003	0.0828		285.3054	285.3054	0.0234		285.7975

3.8 Transmission Line - 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	lb/day										lb/day					
Off-Road	0.8748	10.6847	5.6785	9.3500e-003		0.4625	0.4625		0.4255	0.4255		982.1393	982.1393	0.2932		988.2967
Total	0.8748	10.6847	5.6785	9.3500e-003		0.4625	0.4625		0.4255	0.4255		982.1393	982.1393	0.2932		988.2967

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	3.1000e-004	4.8500e-003	3.5400e-003	1.0000e-005	4.0000e-004	1.2000e-004	5.2000e-004	1.1000e-004	1.1000e-004	2.2000e-004		1.3932	1.3932	1.0000e-005		1.3934
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	0.1749	0.3161	3.3296	3.4200e-003	0.3040	2.0700e-003	0.3061	0.0806	1.8900e-003	0.0825		283.4722	283.4722	0.0234		283.9641
Total	0.1752	0.3209	3.3332	3.4300e-003	0.3044	2.1900e-003	0.3066	0.0807	2.0000e-003	0.0827		284.8655	284.8655	0.0234		285.3575

3.8 Transmission Line - 2015**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	0.2310	4.5925	5.3360	9.3500e-003		0.2007	0.2007		0.2007	0.2007	0.0000	982.1393	982.1393	0.2932		988.2967
Total	0.2310	4.5925	5.3360	9.3500e-003		0.2007	0.2007		0.2007	0.2007	0.0000	982.1393	982.1393	0.2932		988.2967

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	3.1000e-004	4.8500e-003	3.5400e-003	1.0000e-005	4.0000e-004	1.2000e-004	5.2000e-004	1.1000e-004	1.1000e-004	2.2000e-004		1.3932	1.3932	1.0000e-005		1.3934
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	0.1749	0.3161	3.3296	3.4200e-003	0.3040	2.0700e-003	0.3061	0.0806	1.8900e-003	0.0825		283.4722	283.4722	0.0234		283.9641
Total	0.1752	0.3209	3.3332	3.4300e-003	0.3044	2.1900e-003	0.3066	0.0807	2.0000e-003	0.0827		284.8655	284.8655	0.0234		285.3575

3.8 Transmission Line - 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	lb/day										lb/day					
Off-Road	0.8219	9.9027	5.4239	9.3600e-003		0.4231	0.4231		0.3893	0.3893		972.0517	972.0517	0.2932		978.2090
Total	0.8219	9.9027	5.4239	9.3600e-003		0.4231	0.4231		0.3893	0.3893		972.0517	972.0517	0.2932		978.2090

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	2.6000e-004	4.1200e-003	3.2100e-003	1.0000e-005	1.7400e-003	1.0000e-004	1.8400e-003	4.4000e-004	9.0000e-005	5.3000e-004		1.3749	1.3749	1.0000e-005		1.3751
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	0.1547	0.2853	2.9653	3.4100e-003	0.3040	1.9200e-003	0.3059	0.0806	1.7600e-003	0.0824		272.2015	272.2015	0.0215		272.6521
Total	0.1550	0.2894	2.9685	3.4200e-003	0.3057	2.0200e-003	0.3078	0.0810	1.8500e-003	0.0829		273.5764	273.5764	0.0215		274.0272

3.8 Transmission Line - 2016**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	0.2310	4.5925	5.3360	9.3600e-003		0.2007	0.2007		0.2007	0.2007	0.0000	972.0517	972.0517	0.2932		978.2090
Total	0.2310	4.5925	5.3360	9.3600e-003		0.2007	0.2007		0.2007	0.2007	0.0000	972.0517	972.0517	0.2932		978.2090

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	2.6000e-004	4.1200e-003	3.2100e-003	1.0000e-005	1.7400e-003	1.0000e-004	1.8400e-003	4.4000e-004	9.0000e-005	5.3000e-004		1.3749	1.3749	1.0000e-005		1.3751
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	0.1547	0.2853	2.9653	3.4100e-003	0.3040	1.9200e-003	0.3059	0.0806	1.7600e-003	0.0824		272.2015	272.2015	0.0215		272.6521
Total	0.1550	0.2894	2.9685	3.4200e-003	0.3057	2.0200e-003	0.3078	0.0810	1.8500e-003	0.0829		273.5764	273.5764	0.0215		274.0272

3.9 Below Grade Electrical - 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	lb/day										lb/day					
Off-Road	1.1607	9.9030	7.1580	9.1700e-003		0.6546	0.6546		0.6023	0.6023		963.5151	963.5151	0.2877		969.5558
Total	1.1607	9.9030	7.1580	9.1700e-003		0.6546	0.6546		0.6023	0.6023		963.5151	963.5151	0.2877		969.5558

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	5.1000e-004	8.0800e-003	5.9100e-003	2.0000e-005	5.8000e-004	2.0000e-004	7.8000e-004	1.6000e-004	1.8000e-004	3.4000e-004		2.3220	2.3220	1.0000e-005		2.3223
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	0.1749	0.3161	3.3296	3.4200e-003	0.3040	2.0700e-003	0.3061	0.0806	1.8900e-003	0.0825		283.4722	283.4722	0.0234		283.9641
Total	0.1754	0.3242	3.3355	3.4400e-003	0.3046	2.2700e-003	0.3068	0.0808	2.0700e-003	0.0828		285.7943	285.7943	0.0234		286.2864

3.9 Below Grade Electrical - 2015**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	0.5952	5.7910	7.3997	9.1700e-003		0.3784	0.3784		0.3625	0.3625	0.0000	963.5151	963.5151	0.2877		969.5558
Total	0.5952	5.7910	7.3997	9.1700e-003		0.3784	0.3784		0.3625	0.3625	0.0000	963.5151	963.5151	0.2877		969.5558

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	5.1000e-004	8.0800e-003	5.9100e-003	2.0000e-005	5.8000e-004	2.0000e-004	7.8000e-004	1.6000e-004	1.8000e-004	3.4000e-004		2.3220	2.3220	1.0000e-005		2.3223
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	0.1749	0.3161	3.3296	3.4200e-003	0.3040	2.0700e-003	0.3061	0.0806	1.8900e-003	0.0825		283.4722	283.4722	0.0234		283.9641
Total	0.1754	0.3242	3.3355	3.4400e-003	0.3046	2.2700e-003	0.3068	0.0808	2.0700e-003	0.0828		285.7943	285.7943	0.0234		286.2864

3.10 Above Grade Electrical - 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	lb/day										lb/day					
Off-Road	0.0447	0.5662	0.4453	6.5000e-004		0.0327	0.0327		0.0301	0.0301		67.7374	67.7374	0.0202		68.1620
Total	0.0447	0.5662	0.4453	6.5000e-004		0.0327	0.0327		0.0301	0.0301		67.7374	67.7374	0.0202		68.1620

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	5.1000e-004	8.0800e-003	5.9100e-003	2.0000e-005	5.8000e-004	2.0000e-004	7.8000e-004	1.6000e-004	1.8000e-004	3.4000e-004		2.3220	2.3220	1.0000e-005		2.3223
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	0.1749	0.3161	3.3296	3.4200e-003	0.3040	2.0700e-003	0.3061	0.0806	1.8900e-003	0.0825		283.4722	283.4722	0.0234		283.9641
Total	0.1754	0.3242	3.3355	3.4400e-003	0.3046	2.2700e-003	0.3068	0.0808	2.0700e-003	0.0828		285.7943	285.7943	0.0234		286.2864

3.10 Above Grade Electrical - 2015**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	0.0159	0.3624	0.4894	6.5000e-004		0.0254	0.0254		0.0254	0.0254	0.0000	67.7374	67.7374	0.0202		68.1620
Total	0.0159	0.3624	0.4894	6.5000e-004		0.0254	0.0254		0.0254	0.0254	0.0000	67.7374	67.7374	0.0202		68.1620

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	5.1000e-004	8.0800e-003	5.9100e-003	2.0000e-005	5.8000e-004	2.0000e-004	7.8000e-004	1.6000e-004	1.8000e-004	3.4000e-004		2.3220	2.3220	1.0000e-005		2.3223
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	0.1749	0.3161	3.3296	3.4200e-003	0.3040	2.0700e-003	0.3061	0.0806	1.8900e-003	0.0825		283.4722	283.4722	0.0234		283.9641
Total	0.1754	0.3242	3.3355	3.4400e-003	0.3046	2.2700e-003	0.3068	0.0808	2.0700e-003	0.0828		285.7943	285.7943	0.0234		286.2864

3.11 Module Installation - 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	lb/day										lb/day					
Off-Road	0.0893	1.1323	0.8905	1.2900e-003		0.0655	0.0655		0.0602	0.0602		135.4748	135.4748	0.0404		136.3241
Total	0.0893	1.1323	0.8905	1.2900e-003		0.0655	0.0655		0.0602	0.0602		135.4748	135.4748	0.0404		136.3241

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	5.2000e-004	8.2100e-003	6.0100e-003	2.0000e-005	6.2000e-004	2.0000e-004	8.2000e-004	1.7000e-004	1.9000e-004	3.6000e-004		2.3614	2.3614	1.0000e-005		2.3617
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	0.1749	0.3161	3.3296	3.4200e-003	0.3040	2.0700e-003	0.3061	0.0806	1.8900e-003	0.0825		283.4722	283.4722	0.0234		283.9641
Total	0.1754	0.3243	3.3356	3.4400e-003	0.3046	2.2700e-003	0.3069	0.0808	2.0800e-003	0.0828		285.8336	285.8336	0.0234		286.3258

3.11 Module Installation - 2015**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	0.0318	0.7249	0.9789	1.2900e-003		0.0508	0.0508		0.0508	0.0508	0.0000	135.4748	135.4748	0.0404		136.3241
Total	0.0318	0.7249	0.9789	1.2900e-003		0.0508	0.0508		0.0508	0.0508	0.0000	135.4748	135.4748	0.0404		136.3241

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	5.2000e-004	8.2100e-003	6.0100e-003	2.0000e-005	6.2000e-004	2.0000e-004	8.2000e-004	1.7000e-004	1.9000e-004	3.6000e-004		2.3614	2.3614	1.0000e-005		2.3617
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	0.1749	0.3161	3.3296	3.4200e-003	0.3040	2.0700e-003	0.3061	0.0806	1.8900e-003	0.0825		283.4722	283.4722	0.0234		283.9641
Total	0.1754	0.3243	3.3356	3.4400e-003	0.3046	2.2700e-003	0.3069	0.0808	2.0800e-003	0.0828		285.8336	285.8336	0.0234		286.3258

3.11 Module Installation - 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	lb/day										lb/day					
Off-Road	0.0798	1.0159	0.8841	1.2900e-003		0.0564	0.0564		0.0519	0.0519		134.1467	134.1467	0.0405		134.9964
Total	0.0798	1.0159	0.8841	1.2900e-003		0.0564	0.0564		0.0519	0.0519		134.1467	134.1467	0.0405		134.9964

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	4.4000e-004	6.9800e-003	5.4300e-003	2.0000e-005	8.9600e-003	1.7000e-004	9.1300e-003	2.2200e-003	1.6000e-004	2.3700e-003		2.3304	2.3304	1.0000e-005		2.3306
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	0.1547	0.2853	2.9653	3.4100e-003	0.3040	1.9200e-003	0.3059	0.0806	1.7600e-003	0.0824		272.2015	272.2015	0.0215		272.6521
Total	0.1551	0.2923	2.9707	3.4300e-003	0.3129	2.0900e-003	0.3150	0.0828	1.9200e-003	0.0847		274.5319	274.5319	0.0215		274.9827

3.11 Module Installation - 2016

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	0.0318	0.7249	0.9789	1.2900e-003		0.0508	0.0508		0.0508	0.0508	0.0000	134.1467	134.1467	0.0405		134.9964
Total	0.0318	0.7249	0.9789	1.2900e-003		0.0508	0.0508		0.0508	0.0508	0.0000	134.1467	134.1467	0.0405		134.9964

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	4.4000e-004	6.9800e-003	5.4300e-003	2.0000e-005	8.9600e-003	1.7000e-004	9.1300e-003	2.2200e-003	1.6000e-004	2.3700e-003		2.3304	2.3304	1.0000e-005		2.3306
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	0.1547	0.2853	2.9653	3.4100e-003	0.3040	1.9200e-003	0.3059	0.0806	1.7600e-003	0.0824		272.2015	272.2015	0.0215		272.6521
Total	0.1551	0.2923	2.9707	3.4300e-003	0.3129	2.0900e-003	0.3150	0.0828	1.9200e-003	0.0847		274.5319	274.5319	0.0215		274.9827

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		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		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
User Defined Industrial	6.70	5.00	8.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.452463	0.070907	0.165532	0.163183	0.043777	0.005595	0.012812	0.078576	0.001869	0.000152	0.002393	0.000687	0.002054

5.0 Energy Detail

4.4 Fleet Mix

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	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

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					
User Defined Industrial	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		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

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					
User Defined Industrial	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		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	2.2800e-003	2.2000e-004	0.0234	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0490	0.0490	1.4000e-004		0.0519
Unmitigated	2.2800e-003	2.2000e-004	0.0234	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0490	0.0490	1.4000e-004		0.0519

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.2800e-003	2.2000e-004	0.0234	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0490	0.0490	1.4000e-004		0.0519
Total	2.2800e-003	2.2000e-004	0.0234	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0490	0.0490	1.4000e-004		0.0519

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					
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.2800e-003	2.2000e-004	0.0234	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0490	0.0490	1.4000e-004		0.0519
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.2800e-003	2.2000e-004	0.0234	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0490	0.0490	1.4000e-004		0.0519

7.0 Water Detail

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 Vegetation

Wistaria Ranch Solar Energy Center

Imperial County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	223.68	User Defined Unit	223.68	0.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.4	Precipitation Freq (Days)	12
Climate Zone	15			Operational Year	2016
Utility Company	Imperial Irrigation District				
CO2 Intensity (lb/MWhr)	1270.9	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Estimated acreage based on most recent project description for CUP 13-0037

Construction Phase - Estimated construction schedule provided by project applicant

Off-road Equipment - Estimated construction equipment per project applicant.

Off-road Equipment - Estimated construction equipment per project applicant.

Off-road Equipment - Estimated construction equipment per project applicant.

Off-road Equipment - Estimated construction equipment per project applicant.

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Off-road Equipment - Estimated construction equipment per project applicant.

Off-road Equipment - Estimated construction equipment per project applicant.

Off-road Equipment - Estimated construction equipment per project applicant.

Off-road Equipment - Estimated construction equipment per project applicant.

Trips and VMT - Construction worker and truck trips are based on information provided by the applicant

On-road Fugitive Dust - Assumes travel on paved roads

Grading - Estimated disturbed acreage based on project area and construction schedule

Vehicle Trips - Does not include estimates of operational emissions.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Water And Wastewater -

Construction Off-road Equipment Mitigation - Includes mitigation to Tier 3 engines for all equipment greater than 50 hp.

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	100
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstructionPhase	PhaseEndDate	3/3/2016	1/5/2016

tblConstructionPhase	PhaseEndDate	1/6/2016	1/5/2016
tblConstructionPhase	PhaseEndDate	2/12/2016	1/18/2016
tblConstructionPhase	PhaseEndDate	3/28/2016	12/18/2015
tblConstructionPhase	PhaseEndDate	5/6/2016	1/24/2016
tblConstructionPhase	PhaseEndDate	2/19/2016	12/11/2015
tblConstructionPhase	PhaseEndDate	2/16/2016	9/4/2015
tblConstructionPhase	PhaseEndDate	5/9/2016	12/11/2015
tblConstructionPhase	PhaseEndDate	4/15/2016	11/27/2015
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tblConstructionPhase	PhaseStartDate	7/25/2015	7/24/2015
tblConstructionPhase	PhaseStartDate	9/5/2015	8/11/2015
tblConstructionPhase	PhaseStartDate	12/12/2015	9/4/2015
tblConstructionPhase	PhaseStartDate	12/19/2015	9/6/2015
tblConstructionPhase	PhaseStartDate	11/28/2015	9/21/2015
tblConstructionPhase	PhaseStartDate	1/6/2016	7/27/2015
tblConstructionPhase	PhaseStartDate	1/19/2016	8/24/2015
tblConstructionPhase	PhaseStartDate	1/25/2016	9/7/2015
tblGrading	AcresOfGrading	30.00	223.68
tblLandUse	LotAcreage	0.00	223.68
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tblOffRoadEquipment	PhaseName		Transmission Line
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tblOffRoadEquipment	PhaseName		Site Preparation
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tblOnRoadDust	VendorPercentPave	50.00	100.00

[illegible]

[illegible]

tblTripsAndVMT	WorkerTripLength	10.20	40.00
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tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblVehicleTrips	CC_TL	9.50	5.00
tblVehicleTrips	CNW_TL	11.90	8.90
tblVehicleTrips	CW_TL	16.40	6.70

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					
2015	0.4081	4.0505	3.1182	4.7200e-003	0.2217	0.1917	0.4134	0.0402	0.1770	0.2172	0.0000	425.9772	425.9772	0.1070	0.0000	428.2232
2016	0.0185	0.1950	0.1461	2.3000e-004	5.1800e-003	8.7300e-003	0.0139	1.3700e-003	8.0500e-003	9.4200e-003	0.0000	20.3469	20.3469	5.1800e-003	0.0000	20.4557
Total	0.4266	4.2455	3.2643	4.9500e-003	0.2269	0.2004	0.4273	0.0415	0.1851	0.2266	0.0000	446.3241	446.3241	0.1121	0.0000	448.6788

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					
2015	0.1730	1.9793	3.3012	4.7200e-003	0.1485	0.0928	0.2413	0.0323	0.0913	0.1236	0.0000	425.9768	425.9768	0.1070	0.0000	428.2228
2016	6.5100e-003	0.0890	0.1512	2.3000e-004	5.1800e-003	3.7400e-003	8.9200e-003	1.3700e-003	3.7400e-003	5.1100e-003	0.0000	20.3469	20.3469	5.1800e-003	0.0000	20.4557
Total	0.1795	2.0683	3.4524	4.9500e-003	0.1536	0.0966	0.2502	0.0336	0.0951	0.1287	0.0000	446.3237	446.3237	0.1121	0.0000	448.6784

	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	57.93	51.28	-5.76	0.00	32.28	51.82	41.45	19.05	48.64	43.21	0.00	0.00	0.00	0.00	0.00	0.00

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	2.1000e-004	2.0000e-005	2.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0000e-003	4.0000e-003	1.0000e-005	0.0000	4.2300e-003
Energy	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
Mobile	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	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.1000e-004	2.0000e-005	2.1100e-003	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	1.0000e-005	1.0000e-005	0.0000	4.0000e-003	4.0000e-003	1.0000e-005	0.0000	4.2300e-003

2.2 Overall Operational

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	2.1000e-004	2.0000e-005	2.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0000e-003	4.0000e-003	1.0000e-005	0.0000	4.2300e-003
Energy	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
Mobile	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	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.1000e-004	2.0000e-005	2.1100e-003	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	1.0000e-005	1.0000e-005	0.0000	4.0000e-003	4.0000e-003	1.0000e-005	0.0000	4.2300e-003

	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	Mobilization	Site Preparation	7/1/2015	7/24/2015	5	18	
2	Miscellaneous	Building Construction	7/24/2015	1/5/2016	5	118	
3	Site Preparation	Site Preparation	7/27/2015	9/4/2015	5	30	
4	Substation	Building Construction	8/11/2015	1/18/2016	5	115	
5	Post Installation	Trenching	8/24/2015	12/11/2015	5	80	
6	O&M Building	Building Construction	9/4/2015	12/18/2015	5	76	
7	Transmission Line	Building Construction	9/6/2015	1/24/2016	5	100	
8	Below Grade Electrical	Trenching	9/7/2015	11/27/2015	5	60	
9	Above Grade Electrical	Building Construction	9/21/2015	12/11/2015	5	60	
10	Module Installation	Building Construction	10/15/2015	1/5/2016	5	59	

Acres of Grading (Site Preparation Phase): 223.68

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Mobilization	Off-Highway Trucks	3	2.00	350	0.38
Miscellaneous	Air Compressors	2	2.00	75	0.48
Miscellaneous	Generator Sets	3	8.00	5	0.74
Miscellaneous	Off-Highway Trucks	1	1.00	180	0.38
Miscellaneous	Off-Highway Trucks	1	2.00	350	0.38
Miscellaneous	Plate Compactors	2	1.00	15	0.43
Site Preparation	Graders	1	8.00	200	0.41
Site Preparation	Off-Highway Tractors	1	8.00	250	0.44

Site Preparation	Off-Highway Trucks	2	8.00	300	0.38
Site Preparation	Off-Highway Trucks	1	4.00	300	0.38
Site Preparation	Plate Compactors	1	3.00	100	0.43
Site Preparation	Rough Terrain Forklifts	1	2.00	75	0.40
Site Preparation	Scrapers	1	4.00	300	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	150	0.37
Substation	Cranes	2	5.00	200	0.29
Substation	Tractors/Loaders/Backhoes	2	7.00	150	0.37
Post Installation	Bore/Drill Rigs	2	8.00	45	0.50
Post Installation	Rough Terrain Forklifts	2	7.00	75	0.40
O&M Building	Cranes	2	5.00	200	0.29
O&M Building	Tractors/Loaders/Backhoes	2	7.00	150	0.37
Transmission Line	Aerial Lifts	2	2.00	110	0.31
Transmission Line	Cranes	1	2.00	500	0.29
Transmission Line	Cranes	1	2.00	220	0.29
Transmission Line	Off-Highway Trucks	2	2.00	210	0.38
Below Grade Electrical	Excavators	2	7.00	45	0.38
Below Grade Electrical	Tractors/Loaders/Backhoes	1	7.00	150	0.37
Below Grade Electrical	Trenchers	1	4.00	100	0.50
Above Grade Electrical	Rough Terrain Forklifts	1	2.00	75	0.40
Module Installation	Rough Terrain Forklifts	2	2.00	75	0.40

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
Mobilization	3	10.00	0.00	1.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Miscellaneous	9	10.00	0.00	1.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	9	10.00	0.00	1.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Substation	4	10.00	0.00	1.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Post Installation	4	10.00	0.00	1.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
O&M Building	4	10.00	0.00	1.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Transmission Line	6	10.00	0.00	1.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Below Grade Electrical	4	10.00	0.00	1.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Above Grade Electrical	1	10.00	0.00	1.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Module Installation	2	10.00	0.00	1.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Mobilization - 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					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0900e-003	0.0717	0.0323	8.0000e-005		2.7400e-003	2.7400e-003		2.5200e-003	2.5200e-003	0.0000	7.4096	7.4096	2.2100e-003	0.0000	7.4560
Total	6.0900e-003	0.0717	0.0323	8.0000e-005	0.0000	2.7400e-003	2.7400e-003	0.0000	2.5200e-003	2.5200e-003	0.0000	7.4096	7.4096	2.2100e-003	0.0000	7.4560

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	2.0000e-005	2.7000e-004	1.8000e-004	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0632	0.0632	0.0000	0.0000	0.0632
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	0.0000	0.0000
Worker	1.3400e-003	3.1600e-003	0.0263	3.0000e-005	2.7200e-003	2.0000e-005	2.7300e-003	7.2000e-004	2.0000e-005	7.4000e-004	0.0000	2.2577	2.2577	1.9000e-004	0.0000	2.2618
Total	1.3600e-003	3.4300e-003	0.0265	3.0000e-005	2.7400e-003	3.0000e-005	2.7500e-003	7.2000e-004	3.0000e-005	7.5000e-004	0.0000	2.3209	2.3209	1.9000e-004	0.0000	2.3249

3.2 Mobilization - 2015**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9000e-003	0.0367	0.0412	8.0000e-005		1.3900e-003	1.3900e-003		1.3900e-003	1.3900e-003	0.0000	7.4095	7.4095	2.2100e-003	0.0000	7.4560
Total	1.9000e-003	0.0367	0.0412	8.0000e-005	0.0000	1.3900e-003	1.3900e-003	0.0000	1.3900e-003	1.3900e-003	0.0000	7.4095	7.4095	2.2100e-003	0.0000	7.4560

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	2.0000e-005	2.7000e-004	1.8000e-004	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0632	0.0632	0.0000	0.0000	0.0632
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	0.0000	0.0000
Worker	1.3400e-003	3.1600e-003	0.0263	3.0000e-005	2.7200e-003	2.0000e-005	2.7300e-003	7.2000e-004	2.0000e-005	7.4000e-004	0.0000	2.2577	2.2577	1.9000e-004	0.0000	2.2618
Total	1.3600e-003	3.4300e-003	0.0265	3.0000e-005	2.7400e-003	3.0000e-005	2.7500e-003	7.2000e-004	3.0000e-005	7.5000e-004	0.0000	2.3209	2.3209	1.9000e-004	0.0000	2.3249

3.3 Miscellaneous - 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	0.0331	0.2997	0.1609	3.3000e-004		0.0162	0.0162		0.0156	0.0156	0.0000	30.0281	30.0281	7.2200e-003	0.0000	30.1797
Total	0.0331	0.2997	0.1609	3.3000e-004		0.0162	0.0162		0.0156	0.0156	0.0000	30.0281	30.0281	7.2200e-003	0.0000	30.1797

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	2.0000e-005	2.6000e-004	1.7000e-004	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0616	0.0616	0.0000	0.0000	0.0616
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	0.0000	0.0000
Worker	8.5500e-003	0.0202	0.1678	1.9000e-004	0.0174	1.2000e-004	0.0175	4.6000e-003	1.1000e-004	4.7100e-003	0.0000	14.4245	14.4245	1.2200e-003	0.0000	14.4501
Total	8.5700e-003	0.0204	0.1680	1.9000e-004	0.0174	1.3000e-004	0.0175	4.6000e-003	1.2000e-004	4.7200e-003	0.0000	14.4860	14.4860	1.2200e-003	0.0000	14.5117

3.3 Miscellaneous - 2015**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	8.3600e-003	0.1551	0.1834	3.3000e-004		7.5000e-003	7.5000e-003		7.5000e-003	7.5000e-003	0.0000	30.0281	30.0281	7.2200e-003	0.0000	30.1796
Total	8.3600e-003	0.1551	0.1834	3.3000e-004		7.5000e-003	7.5000e-003		7.5000e-003	7.5000e-003	0.0000	30.0281	30.0281	7.2200e-003	0.0000	30.1796

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	2.0000e-005	2.6000e-004	1.7000e-004	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0616	0.0616	0.0000	0.0000	0.0616
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	0.0000	0.0000
Worker	8.5500e-003	0.0202	0.1678	1.9000e-004	0.0174	1.2000e-004	0.0175	4.6000e-003	1.1000e-004	4.7100e-003	0.0000	14.4245	14.4245	1.2200e-003	0.0000	14.4501
Total	8.5700e-003	0.0204	0.1680	1.9000e-004	0.0174	1.3000e-004	0.0175	4.6000e-003	1.2000e-004	4.7200e-003	0.0000	14.4860	14.4860	1.2200e-003	0.0000	14.5117

3.3 Miscellaneous - 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	7.9000e-004	7.1100e-003	4.0300e-003	1.0000e-005		3.8000e-004	3.8000e-004		3.6000e-004	3.6000e-004	0.0000	0.7775	0.7775	1.9000e-004	0.0000	0.7814
Total	7.9000e-004	7.1100e-003	4.0300e-003	1.0000e-005		3.8000e-004	3.8000e-004		3.6000e-004	3.6000e-004	0.0000	0.7775	0.7775	1.9000e-004	0.0000	0.7814

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	1.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	1.5800e-003	1.5800e-003	0.0000	0.0000	1.5800e-003
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	0.0000	0.0000
Worker	2.0000e-004	4.7000e-004	3.9000e-003	0.0000	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3613	0.3613	3.0000e-005	0.0000	0.3619
Total	2.0000e-004	4.8000e-004	3.9000e-003	0.0000	4.6000e-004	0.0000	4.7000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3629	0.3629	3.0000e-005	0.0000	0.3635

3.3 Miscellaneous - 2016**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	2.2000e-004	4.0500e-003	4.7900e-003	1.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.7775	0.7775	1.9000e-004	0.0000	0.7814
Total	2.2000e-004	4.0500e-003	4.7900e-003	1.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.7775	0.7775	1.9000e-004	0.0000	0.7814

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	1.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	1.5800e-003	1.5800e-003	0.0000	0.0000	1.5800e-003
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	0.0000	0.0000
Worker	2.0000e-004	4.7000e-004	3.9000e-003	0.0000	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3613	0.3613	3.0000e-005	0.0000	0.3619
Total	2.0000e-004	4.8000e-004	3.9000e-003	0.0000	4.6000e-004	0.0000	4.7000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3629	0.3629	3.0000e-005	0.0000	0.3635

3.4 Site Preparation - 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					
Fugitive Dust					0.1186	0.0000	0.1186	0.0128	0.0000	0.0128	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0651	0.8219	0.3587	7.9000e-004		0.0316	0.0316		0.0291	0.0291	0.0000	75.4471	75.4471	0.0225	0.0000	75.9201
Total	0.0651	0.8219	0.3587	7.9000e-004	0.1186	0.0316	0.1502	0.0128	0.0291	0.0419	0.0000	75.4471	75.4471	0.0225	0.0000	75.9201

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	2.0000e-005	2.7000e-004	1.8000e-004	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0632	0.0632	0.0000	0.0000	0.0632
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	0.0000	0.0000
Worker	2.2300e-003	5.2600e-003	0.0438	5.0000e-005	4.5300e-003	3.0000e-005	4.5600e-003	1.2000e-003	3.0000e-005	1.2300e-003	0.0000	3.7629	3.7629	3.2000e-004	0.0000	3.7696
Total	2.2500e-003	5.5300e-003	0.0440	5.0000e-005	4.5500e-003	4.0000e-005	4.5800e-003	1.2000e-003	4.0000e-005	1.2400e-003	0.0000	3.8261	3.8261	3.2000e-004	0.0000	3.8328

3.4 Site Preparation - 2015**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					0.0454	0.0000	0.0454	4.9000e-003	0.0000	4.9000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.3765	0.4393	7.9000e-004		0.0148	0.0148		0.0148	0.0148	0.0000	75.4470	75.4470	0.0225	0.0000	75.9200
Total	0.0194	0.3765	0.4393	7.9000e-004	0.0454	0.0148	0.0602	4.9000e-003	0.0148	0.0197	0.0000	75.4470	75.4470	0.0225	0.0000	75.9200

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	2.0000e-005	2.7000e-004	1.8000e-004	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0632	0.0632	0.0000	0.0000	0.0632
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	0.0000	0.0000
Worker	2.2300e-003	5.2600e-003	0.0438	5.0000e-005	4.5300e-003	3.0000e-005	4.5600e-003	1.2000e-003	3.0000e-005	1.2300e-003	0.0000	3.7629	3.7629	3.2000e-004	0.0000	3.7696
Total	2.2500e-003	5.5300e-003	0.0440	5.0000e-005	4.5500e-003	4.0000e-005	4.5800e-003	1.2000e-003	4.0000e-005	1.2400e-003	0.0000	3.8261	3.8261	3.2000e-004	0.0000	3.8328

3.5 Substation - 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	0.0795	0.9285	0.4620	7.5000e-004		0.0445	0.0445		0.0409	0.0409	0.0000	71.3240	71.3240	0.0213	0.0000	71.7712
Total	0.0795	0.9285	0.4620	7.5000e-004		0.0445	0.0445		0.0409	0.0409	0.0000	71.3240	71.3240	0.0213	0.0000	71.7712

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	1.0000e-005	2.4000e-004	1.6000e-004	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0566	0.0566	0.0000	0.0000	0.0566
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	0.0000	0.0000
Worker	7.6600e-003	0.0181	0.1503	1.7000e-004	0.0155	1.1000e-004	0.0157	4.1200e-003	1.0000e-004	4.2200e-003	0.0000	12.9193	12.9193	1.0900e-003	0.0000	12.9423
Total	7.6700e-003	0.0183	0.1505	1.7000e-004	0.0156	1.2000e-004	0.0157	4.1200e-003	1.0000e-004	4.2300e-003	0.0000	12.9759	12.9759	1.0900e-003	0.0000	12.9989

3.5 Substation - 2015**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	0.0185	0.3574	0.4976	7.5000e-004		0.0157	0.0157		0.0157	0.0157	0.0000	71.3239	71.3239	0.0213	0.0000	71.7711
Total	0.0185	0.3574	0.4976	7.5000e-004		0.0157	0.0157		0.0157	0.0157	0.0000	71.3239	71.3239	0.0213	0.0000	71.7711

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	1.0000e-005	2.4000e-004	1.6000e-004	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0566	0.0566	0.0000	0.0000	0.0566
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	0.0000	0.0000
Worker	7.6600e-003	0.0181	0.1503	1.7000e-004	0.0155	1.1000e-004	0.0157	4.1200e-003	1.0000e-004	4.2200e-003	0.0000	12.9193	12.9193	1.0900e-003	0.0000	12.9423
Total	7.6700e-003	0.0183	0.1505	1.7000e-004	0.0156	1.2000e-004	0.0157	4.1200e-003	1.0000e-004	4.2300e-003	0.0000	12.9759	12.9759	1.0900e-003	0.0000	12.9989

3.5 Substation - 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	8.7800e-003	0.1016	0.0530	9.0000e-005		4.8500e-003	4.8500e-003		4.4600e-003	4.4600e-003	0.0000	8.2163	8.2163	2.4800e-003	0.0000	8.2684
Total	8.7800e-003	0.1016	0.0530	9.0000e-005		4.8500e-003	4.8500e-003		4.4600e-003	4.4600e-003	0.0000	8.2163	8.2163	2.4800e-003	0.0000	8.2684

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	2.0000e-005	2.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	6.5000e-003	6.5000e-003	0.0000	0.0000	6.5000e-003
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	0.0000	0.0000
Worker	7.9000e-004	1.9000e-003	0.0156	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.4452	1.4452	1.2000e-004	0.0000	1.4477
Total	7.9000e-004	1.9200e-003	0.0156	2.0000e-005	1.8200e-003	1.0000e-005	1.8300e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.4517	1.4517	1.2000e-004	0.0000	1.4542

3.5 Substation - 2016**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	2.1500e-003	0.0416	0.0580	9.0000e-005		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	8.2163	8.2163	2.4800e-003	0.0000	8.2684
Total	2.1500e-003	0.0416	0.0580	9.0000e-005		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	8.2163	8.2163	2.4800e-003	0.0000	8.2684

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	2.0000e-005	2.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	6.5000e-003	6.5000e-003	0.0000	0.0000	6.5000e-003
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	0.0000	0.0000
Worker	7.9000e-004	1.9000e-003	0.0156	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.4452	1.4452	1.2000e-004	0.0000	1.4477
Total	7.9000e-004	1.9200e-003	0.0156	2.0000e-005	1.8200e-003	1.0000e-005	1.8300e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.4517	1.4517	1.2000e-004	0.0000	1.4542

3.6 Post Installation - 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	0.0394	0.3269	0.2750	3.6000e-004		0.0212	0.0212		0.0195	0.0195	0.0000	34.0590	34.0590	0.0102	0.0000	34.2725
Total	0.0394	0.3269	0.2750	3.6000e-004		0.0212	0.0212		0.0195	0.0195	0.0000	34.0590	34.0590	0.0102	0.0000	34.2725

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	2.0000e-005	2.7000e-004	1.8000e-004	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0632	0.0632	0.0000	0.0000	0.0632
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	0.0000	0.0000
Worker	5.9500e-003	0.0140	0.1168	1.3000e-004	0.0121	8.0000e-005	0.0122	3.2000e-003	8.0000e-005	3.2800e-003	0.0000	10.0344	10.0344	8.5000e-004	0.0000	10.0523
Total	5.9700e-003	0.0143	0.1169	1.3000e-004	0.0121	9.0000e-005	0.0122	3.2000e-003	9.0000e-005	3.2900e-003	0.0000	10.0976	10.0976	8.5000e-004	0.0000	10.1154

3.6 Post Installation - 2015**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	0.0313	0.2699	0.2874	3.6000e-004		0.0192	0.0192		0.0182	0.0182	0.0000	34.0590	34.0590	0.0102	0.0000	34.2725
Total	0.0313	0.2699	0.2874	3.6000e-004		0.0192	0.0192		0.0182	0.0182	0.0000	34.0590	34.0590	0.0102	0.0000	34.2725

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	2.0000e-005	2.7000e-004	1.8000e-004	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0632	0.0632	0.0000	0.0000	0.0632
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	0.0000	0.0000
Worker	5.9500e-003	0.0140	0.1168	1.3000e-004	0.0121	8.0000e-005	0.0122	3.2000e-003	8.0000e-005	3.2800e-003	0.0000	10.0344	10.0344	8.5000e-004	0.0000	10.0523
Total	5.9700e-003	0.0143	0.1169	1.3000e-004	0.0121	9.0000e-005	0.0122	3.2000e-003	9.0000e-005	3.2900e-003	0.0000	10.0976	10.0976	8.5000e-004	0.0000	10.1154

3.7 O&M Building - 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	0.0586	0.6851	0.3409	5.5000e-004		0.0328	0.0328		0.0302	0.0302	0.0000	52.6274	52.6274	0.0157	0.0000	52.9574
Total	0.0586	0.6851	0.3409	5.5000e-004		0.0328	0.0328		0.0302	0.0302	0.0000	52.6274	52.6274	0.0157	0.0000	52.9574

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	2.0000e-005	2.7000e-004	1.8000e-004	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0632	0.0632	0.0000	0.0000	0.0632
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	0.0000	0.0000
Worker	5.6500e-003	0.0133	0.1109	1.3000e-004	0.0115	8.0000e-005	0.0116	3.0400e-003	7.0000e-005	3.1100e-003	0.0000	9.5327	9.5327	8.1000e-004	0.0000	9.5496
Total	5.6700e-003	0.0136	0.1111	1.3000e-004	0.0115	9.0000e-005	0.0116	3.0400e-003	8.0000e-005	3.1200e-003	0.0000	9.5959	9.5959	8.1000e-004	0.0000	9.6128

3.7 O&M Building - 2015**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	0.0136	0.2638	0.3672	5.5000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	52.6274	52.6274	0.0157	0.0000	52.9573
Total	0.0136	0.2638	0.3672	5.5000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	52.6274	52.6274	0.0157	0.0000	52.9573

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	2.0000e-005	2.7000e-004	1.8000e-004	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0632	0.0632	0.0000	0.0000	0.0632
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	0.0000	0.0000
Worker	5.6500e-003	0.0133	0.1109	1.3000e-004	0.0115	8.0000e-005	0.0116	3.0400e-003	7.0000e-005	3.1100e-003	0.0000	9.5327	9.5327	8.1000e-004	0.0000	9.5496
Total	5.6700e-003	0.0136	0.1111	1.3000e-004	0.0115	9.0000e-005	0.0116	3.0400e-003	8.0000e-005	3.1200e-003	0.0000	9.5959	9.5959	8.1000e-004	0.0000	9.6128

3.8 Transmission Line - 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	0.0367	0.4488	0.2385	3.9000e-004		0.0194	0.0194		0.0179	0.0179	0.0000	37.4212	37.4212	0.0112	0.0000	37.6558
Total	0.0367	0.4488	0.2385	3.9000e-004		0.0194	0.0194		0.0179	0.0179	0.0000	37.4212	37.4212	0.0112	0.0000	37.6558

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	1.0000e-005	2.2000e-004	1.5000e-004	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0531	0.0531	0.0000	0.0000	0.0531
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	0.0000	0.0000
Worker	6.2500e-003	0.0147	0.1226	1.4000e-004	0.0127	9.0000e-005	0.0128	3.3600e-003	8.0000e-005	3.4400e-003	0.0000	10.5361	10.5361	8.9000e-004	0.0000	10.5549
Total	6.2600e-003	0.0150	0.1227	1.4000e-004	0.0127	1.0000e-004	0.0128	3.3600e-003	8.0000e-005	3.4500e-003	0.0000	10.5892	10.5892	8.9000e-004	0.0000	10.6079

3.8 Transmission Line - 2015**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	9.7000e-003	0.1929	0.2241	3.9000e-004		8.4300e-003	8.4300e-003		8.4300e-003	8.4300e-003	0.0000	37.4212	37.4212	0.0112	0.0000	37.6558
Total	9.7000e-003	0.1929	0.2241	3.9000e-004		8.4300e-003	8.4300e-003		8.4300e-003	8.4300e-003	0.0000	37.4212	37.4212	0.0112	0.0000	37.6558

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	1.0000e-005	2.2000e-004	1.5000e-004	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0531	0.0531	0.0000	0.0000	0.0531
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	0.0000	0.0000
Worker	6.2500e-003	0.0147	0.1226	1.4000e-004	0.0127	9.0000e-005	0.0128	3.3600e-003	8.0000e-005	3.4400e-003	0.0000	10.5361	10.5361	8.9000e-004	0.0000	10.5549
Total	6.2600e-003	0.0150	0.1227	1.4000e-004	0.0127	1.0000e-004	0.0128	3.3600e-003	8.0000e-005	3.4500e-003	0.0000	10.5892	10.5892	8.9000e-004	0.0000	10.6079

3.8 Transmission Line - 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	6.5800e-003	0.0792	0.0434	7.0000e-005		3.3900e-003	3.3900e-003		3.1100e-003	3.1100e-003	0.0000	7.0546	7.0546	2.1300e-003	0.0000	7.0993
Total	6.5800e-003	0.0792	0.0434	7.0000e-005		3.3900e-003	3.3900e-003		3.1100e-003	3.1100e-003	0.0000	7.0546	7.0546	2.1300e-003	0.0000	7.0993

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	4.0000e-005	3.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	9.9700e-003	9.9700e-003	0.0000	0.0000	9.9700e-003
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	0.0000	0.0000
Worker	1.0500e-003	2.5300e-003	0.0208	3.0000e-005	2.4100e-003	2.0000e-005	2.4300e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	1.9269	1.9269	1.6000e-004	0.0000	1.9302
Total	1.0500e-003	2.5700e-003	0.0208	3.0000e-005	2.4200e-003	2.0000e-005	2.4400e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	1.9369	1.9369	1.6000e-004	0.0000	1.9402

3.8 Transmission Line - 2016**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	1.8500e-003	0.0367	0.0427	7.0000e-005		1.6100e-003	1.6100e-003		1.6100e-003	1.6100e-003	0.0000	7.0546	7.0546	2.1300e-003	0.0000	7.0993
Total	1.8500e-003	0.0367	0.0427	7.0000e-005		1.6100e-003	1.6100e-003		1.6100e-003	1.6100e-003	0.0000	7.0546	7.0546	2.1300e-003	0.0000	7.0993

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	4.0000e-005	3.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	9.9700e-003	9.9700e-003	0.0000	0.0000	9.9700e-003
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	0.0000	0.0000
Worker	1.0500e-003	2.5300e-003	0.0208	3.0000e-005	2.4100e-003	2.0000e-005	2.4300e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	1.9269	1.9269	1.6000e-004	0.0000	1.9302
Total	1.0500e-003	2.5700e-003	0.0208	3.0000e-005	2.4200e-003	2.0000e-005	2.4400e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	1.9369	1.9369	1.6000e-004	0.0000	1.9402

3.9 Below Grade Electrical - 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	0.0348	0.2971	0.2147	2.8000e-004		0.0196	0.0196		0.0181	0.0181	0.0000	26.2226	26.2226	7.8300e-003	0.0000	26.3870
Total	0.0348	0.2971	0.2147	2.8000e-004		0.0196	0.0196		0.0181	0.0181	0.0000	26.2226	26.2226	7.8300e-003	0.0000	26.3870

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	2.0000e-005	2.7000e-004	1.8000e-004	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0632	0.0632	0.0000	0.0000	0.0632
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	0.0000	0.0000
Worker	4.4600e-003	0.0105	0.0876	1.0000e-004	9.0500e-003	6.0000e-005	9.1200e-003	2.4000e-003	6.0000e-005	2.4600e-003	0.0000	7.5258	7.5258	6.4000e-004	0.0000	7.5392
Total	4.4800e-003	0.0108	0.0877	1.0000e-004	9.0700e-003	7.0000e-005	9.1400e-003	2.4000e-003	7.0000e-005	2.4700e-003	0.0000	7.5890	7.5890	6.4000e-004	0.0000	7.6024

3.9 Below Grade Electrical - 2015**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	0.0179	0.1737	0.2220	2.8000e-004		0.0114	0.0114		0.0109	0.0109	0.0000	26.2226	26.2226	7.8300e-003	0.0000	26.3870
Total	0.0179	0.1737	0.2220	2.8000e-004		0.0114	0.0114		0.0109	0.0109	0.0000	26.2226	26.2226	7.8300e-003	0.0000	26.3870

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	2.0000e-005	2.7000e-004	1.8000e-004	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0632	0.0632	0.0000	0.0000	0.0632
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	0.0000	0.0000
Worker	4.4600e-003	0.0105	0.0876	1.0000e-004	9.0500e-003	6.0000e-005	9.1200e-003	2.4000e-003	6.0000e-005	2.4600e-003	0.0000	7.5258	7.5258	6.4000e-004	0.0000	7.5392
Total	4.4800e-003	0.0108	0.0877	1.0000e-004	9.0700e-003	7.0000e-005	9.1400e-003	2.4000e-003	7.0000e-005	2.4700e-003	0.0000	7.5890	7.5890	6.4000e-004	0.0000	7.6024

3.10 Above Grade Electrical - 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	1.3400e-003	0.0170	0.0134	2.0000e-005		9.8000e-004	9.8000e-004		9.0000e-004	9.0000e-004	0.0000	1.8435	1.8435	5.5000e-004	0.0000	1.8551
Total	1.3400e-003	0.0170	0.0134	2.0000e-005		9.8000e-004	9.8000e-004		9.0000e-004	9.0000e-004	0.0000	1.8435	1.8435	5.5000e-004	0.0000	1.8551

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	2.0000e-005	2.7000e-004	1.8000e-004	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0632	0.0632	0.0000	0.0000	0.0632
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	0.0000	0.0000
Worker	4.4600e-003	0.0105	0.0876	1.0000e-004	9.0500e-003	6.0000e-005	9.1200e-003	2.4000e-003	6.0000e-005	2.4600e-003	0.0000	7.5258	7.5258	6.4000e-004	0.0000	7.5392
Total	4.4800e-003	0.0108	0.0877	1.0000e-004	9.0700e-003	7.0000e-005	9.1400e-003	2.4000e-003	7.0000e-005	2.4700e-003	0.0000	7.5890	7.5890	6.4000e-004	0.0000	7.6024

3.10 Above Grade Electrical - 2015**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	4.8000e-004	0.0109	0.0147	2.0000e-005		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004	0.0000	1.8435	1.8435	5.5000e-004	0.0000	1.8551
Total	4.8000e-004	0.0109	0.0147	2.0000e-005		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004	0.0000	1.8435	1.8435	5.5000e-004	0.0000	1.8551

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	2.0000e-005	2.7000e-004	1.8000e-004	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0632	0.0632	0.0000	0.0000	0.0632
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	0.0000	0.0000
Worker	4.4600e-003	0.0105	0.0876	1.0000e-004	9.0500e-003	6.0000e-005	9.1200e-003	2.4000e-003	6.0000e-005	2.4600e-003	0.0000	7.5258	7.5258	6.4000e-004	0.0000	7.5392
Total	4.4800e-003	0.0108	0.0877	1.0000e-004	9.0700e-003	7.0000e-005	9.1400e-003	2.4000e-003	7.0000e-005	2.4700e-003	0.0000	7.5890	7.5890	6.4000e-004	0.0000	7.6024

3.11 Module Installation - 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	2.5000e-003	0.0317	0.0249	4.0000e-005		1.8300e-003	1.8300e-003		1.6900e-003	1.6900e-003	0.0000	3.4412	3.4412	1.0300e-003	0.0000	3.4628
Total	2.5000e-003	0.0317	0.0249	4.0000e-005		1.8300e-003	1.8300e-003		1.6900e-003	1.6900e-003	0.0000	3.4412	3.4412	1.0300e-003	0.0000	3.4628

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	1.0000e-005	2.5000e-004	1.7000e-004	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0600	0.0600	0.0000	0.0000	0.0600
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	0.0000	0.0000
Worker	4.1700e-003	9.8200e-003	0.0817	9.0000e-005	8.4500e-003	6.0000e-005	8.5100e-003	2.2400e-003	5.0000e-005	2.2900e-003	0.0000	7.0241	7.0241	5.9000e-004	0.0000	7.0366
Total	4.1800e-003	0.0101	0.0819	9.0000e-005	8.4700e-003	7.0000e-005	8.5300e-003	2.2400e-003	6.0000e-005	2.3000e-003	0.0000	7.0840	7.0840	5.9000e-004	0.0000	7.0965

3.11 Module Installation - 2015

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	8.9000e-004	0.0203	0.0274	4.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003	0.0000	3.4412	3.4412	1.0300e-003	0.0000	3.4628
Total	8.9000e-004	0.0203	0.0274	4.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003	0.0000	3.4412	3.4412	1.0300e-003	0.0000	3.4628

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	1.0000e-005	2.5000e-004	1.7000e-004	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0600	0.0600	0.0000	0.0000	0.0600
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	0.0000	0.0000
Worker	4.1700e-003	9.8200e-003	0.0817	9.0000e-005	8.4500e-003	6.0000e-005	8.5100e-003	2.2400e-003	5.0000e-005	2.2900e-003	0.0000	7.0241	7.0241	5.9000e-004	0.0000	7.0366
Total	4.1800e-003	0.0101	0.0819	9.0000e-005	8.4700e-003	7.0000e-005	8.5300e-003	2.2400e-003	6.0000e-005	2.3000e-003	0.0000	7.0840	7.0840	5.9000e-004	0.0000	7.0965

3.11 Module Installation - 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	1.2000e-004	1.5200e-003	1.3300e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.1825	0.1825	6.0000e-005	0.0000	0.1837
Total	1.2000e-004	1.5200e-003	1.3300e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.1825	0.1825	6.0000e-005	0.0000	0.1837

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	1.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	3.1700e-003	3.1700e-003	0.0000	0.0000	3.1700e-003
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	0.0000	0.0000
Worker	2.0000e-004	4.7000e-004	3.9000e-003	0.0000	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3613	0.3613	3.0000e-005	0.0000	0.3619
Total	2.0000e-004	4.8000e-004	3.9100e-003	0.0000	4.6000e-004	0.0000	4.7000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3645	0.3645	3.0000e-005	0.0000	0.3651

3.11 Module Installation - 2016

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	5.0000e-005	1.0900e-003	1.4700e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.1825	0.1825	6.0000e-005	0.0000	0.1837
Total	5.0000e-005	1.0900e-003	1.4700e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.1825	0.1825	6.0000e-005	0.0000	0.1837

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	1.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	3.1700e-003	3.1700e-003	0.0000	0.0000	3.1700e-003
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	0.0000	0.0000
Worker	2.0000e-004	4.7000e-004	3.9000e-003	0.0000	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3613	0.3613	3.0000e-005	0.0000	0.3619
Total	2.0000e-004	4.8000e-004	3.9100e-003	0.0000	4.6000e-004	0.0000	4.7000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3645	0.3645	3.0000e-005	0.0000	0.3651

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	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	0.0000
Unmitigated	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	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
User Defined Industrial	6.70	5.00	8.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.452463	0.070907	0.165532	0.163183	0.043777	0.005595	0.012812	0.078576	0.001869	0.000152	0.002393	0.000687	0.002054

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

[illegible]

5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

5.2 Energy by Land Use - NaturalGas

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	tons/yr										MT/yr					
User Defined Industrial	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	0.0000
Total		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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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	2.1000e-004	2.0000e-005	2.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0000e-003	4.0000e-003	1.0000e-005	0.0000	4.2300e-003
Unmitigated	2.1000e-004	2.0000e-005	2.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0000e-003	4.0000e-003	1.0000e-005	0.0000	4.2300e-003

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					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1000e-004	2.0000e-005	2.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0000e-003	4.0000e-003	1.0000e-005	0.0000	4.2300e-003
Total	2.1000e-004	2.0000e-005	2.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0000e-003	4.0000e-003	1.0000e-005	0.0000	4.2300e-003

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					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1000e-004	2.0000e-005	2.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0000e-003	4.0000e-003	1.0000e-005	0.0000	4.2300e-003
Total	2.1000e-004	2.0000e-005	2.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0000e-003	4.0000e-003	1.0000e-005	0.0000	4.2300e-003

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/ Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Mitigated

	Indoor/ Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

Wistaria Ranch Solar Energy Center

CUP Operational Emissions Summary

	Total Daily Emissions (pounds/day)						Total Annual Emissions (metric tons/year)
	ROG	NOX	CO	SO2	PM10	PM2.5	CO2e
Operations and Maintenance Vehicles	0.15	1.65	1.40	0.00	10.90	1.69	27
Electricity							151
Water							11
Wastewater							3
Gas Insulated Switchgear							5
Total	0.15	1.65	1.40	0.00	10.90	1.69	197

Wistaria Ranch Solar Energy Center
CUP Area Analysis

Off-Road Equipment

					Emissions Summary (lbs/day)						Emissions Summary (metric tons per year)			
Equipment Type	Equipment Category	Number	HP	Usage Factor (hrs/day)	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	CO ₂	CH ₄	N ₂ O	CO ₂ e
Generators	Generator Sets	1	250	1	0.11	1.38	0.41	0.00	0.04	0.04	4.83	0.00	0.00	4.84
Total					0.11	1.38	0.41	0.00	0.04	0.04	4.83	0.00	0.00	4.84

Notes:
Assumes 1 generator per project phase

On-Road Motor Vehicles

					Emissions Summary (lbs/day)						Emissions Summary (metric tons per year)			
	Total Trips	Distance	Average Daily Mileage	Annual Mileage	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	CO ₂	CH ₄	N ₂ O	CO ₂ e
Worker Trips	2	40	160	42,240	0.03	0.17	0.60	0.00	0.02	0.01	13.11	0.00	0.00	13.62
Pickup Trucks	1	50	100	26,400	0.02	0.10	0.38	0.00	0.01	0.01	8.20	0.00	0.00	8.51
Total					0.04	0.27	0.98	0.00	0.03	0.02	21.31	0.00	0.00	22.14

Notes:
Assumes a maximum of 2 full-time employees and 2 trips per employee per day.
Assumes 1 pickup truck would operate for 2 hours per day at 25 mph.

					Emissions Summary (lbs/day)						Emissions Summary (metric tons per year)			
Total					ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	CO ₂	CH ₄	N ₂ O	CO ₂ e
					0.15	1.65	1.40	0.00	0.07	0.05	26.14	0.00	0.00	26.98

Global Warming Potential

Gas	Atmospheric Lifetime (years)	Global Warming Potential (100 year time horizon)
Carbon Dioxide	50-200	1
Methane	12 ± 3	21
Nitrous Oxide	120	310

IPCC, Second Assessment Report. 1995.

	Operational Days Per Year
Generators	50
On-Road Vehicles	264

Wistaria Ranch Solar Energy Center
CUP Area Analysis

Daily On-Site Motor Vehicle Fugitive Particulate Matter Emissions												
Vehicle Type	No.	Mi/Veh-Day	Surface Type	Silt Loading (g/m ²)/ Silt Content (%)	Vehicle Weight (tons)	Uncontrolled Emission Factors (lb/mi)		Uncontrolled Emissions (lb/day)		Control Efficiency	Controlled Emissions (lb/day)	
						PM10	PM2.5	PM10	PM2.5		PM10	PM2.5
Pickup Trucks	1	50	Unpaved	6	2.4	4.81E-01	7.27E-02	24.1	3.6	55%	10.8	1.6

Note: Totals may not match sum of individual values because of rounding.

Equations:

$$EF (\text{unpaved}) = k_u (s/12)^a (W/3)^b$$

Ref: AP-42, Section 13.2.2, "Unpaved Roads," November 2006

Constants:

$k_u =$	1.5	(Particle size multiplier for PM)
	0.15	(Particle size multiplier for PM2.5)
$a =$	0.9	for PM10
	0.9	for PM2.5
$b =$	0.45	for PM10
	0.45	for PM2.5

Wistaria Ranch Solar Energy Center
CUP Area Analysis

Electricity-Related GHG Emissions

Number of Solar Array Blocks	Number of PV units	Solar Array Block Annual Energy usage (kWh)	Tracker annual kWh usage	Total Annual kWh	CO ₂ (lbs/kWh)	CH ₄ (lbs/kWh)	N ₂ O (lbs/kWh)	Annual Emissions (MT CO ₂ e/yr)
17	987	20,098	336,095	356,193	0.93251	0.000029	0.000014	151

Notes:
CO2 emission factor for IID estimated from 2020 emission factor with 33% renewable energy
CH4 and N2O emission factor from LGOP Table G.7 California Grid Average Electricity Emission Factors (1990-2007)
Number of PV Units estimated from similar solar projects and most recent project description

Equipment	Electricity Draw (watts)	Daily Energy Usage (kWh)	Annual Energy Usage (kWh)
Per Tracker:			
Tracker Control Unit:	50	0.6	219
Tracker Motor:	250	0.1	18
Air Drying Unit:	192	0.192	103
Total Per Tracker			341
Per Building Block:			
Inverters:	100		438
PV Box Ventilation:	173		758
Total Per Building Block			1196

Note: Equipment energy usage information and assumptions based on comparable solar projects
Assumptions:

- The tracker control unit only uses energy during daylight hours (12 hours per day)
- Each tracker motor runs for one minute every hour
- The air drying system runs one hour per day and for 10 hours every 3 weeks

2020 Emission Factor W/ 33% renewable (lbs/kWh)
0.932512046

X = Current Electricity Emissions Estimate
Y = % renewable at the time of the estimate
Z = What emissions will be in 2020 given the RPS at full implementation (33%)

Formula:
 $Z = 67\% * (X / (1 - Y))$

Wistaria Ranch Solar Energy Center
CUP Area Analysis

Water Use Estimates

	Total Estimated Water Demand (acre-feet)	Energy Factor for Outdoor water use for Southern CA (kWh/MG) ¹	MWh	Emission Factor CO ₂ ² (lb/MWh)	Emission Factor CH ₄ ² (lb/MWh)	Emission Factor N ₂ O ² (lb/MWh)	Total CO ₂ e Emissions (MT CO ₂ e/yr)
Construction	105.60	11,110	382.29	1,271	0.029	0.01	221.73
2015	35.20	11,110	127.43	1,271	0.029	0.01	73.91
2016	70.40	11,110	254.86	1,271	0.029	0.01	147.82
Operations	5.28	11,110	19.11	1,271	0.029	0.01	11.09

Notes: Water demand based on estimates in the project description.

Source:

1. Emission factor for the Imperial Irrigation District.
2. Emission factor: LGOP 2010 V1.1 Table G.7 California Grid Average Electricity Emission Factors (1990-2007)

Wistaria Ranch Solar Energy Center
CUP Area Analysis

Wastewater Use Estimates

Influent Emissions

Influent (gal/yr)	Influent BOD* (mg/L)	Influent BOD (kg/yr)	Adjusted BOD Emission Factor (kg CH4/kg BOD)	Influent Emissions (MT CO ₂ e)
573,498	439	953	0.12	2.40

Effluent Emissions

Effluent (gal/yr)	Effluent Nitrogen Content (mg/L)	Effluent Nitrogen Content (kg/yr)	N2O Emissions (kg/yr)	Effluent Emissions (MT CO ₂ e)
573,498	40	86.83	1	0.21

Total Emissions (MT CO ₂ e)	2.61
--	------

Note: Estimates of influent and effluent assume all water will be treated. This is a conservative estimate, since a majority of water used on site will not be treated.

Source: Intergovernmental Panel on Climate Change 2006. IPCC Guidelines for National Greenhouse Gas Inventories; Chapter 6: Wastewater Treatment and Discharge

EMISSION FACTORS

Methane Emissions

EmisFact (kg CH4/kg BOD) (EF = Max CH4 * MCF)	Max CH4 Producing Capacity (kg CH4/kg BOD)	Methane Correction Factor	GWP
0.12	0.6	0.2	21

Equation 6.2 IPCC Chapter 6

Nitrogen Emissions

EF _{Effluent} (kg N2O-N/kg N)	Molecular Weight Ratio (N2O/N2)	GWP
0.005	1.57	310

Wistaria Ranch Solar Energy Center
CUP Area Analysis

Gas-Insulated Switchgear

SF ₆ Capacity ¹	lbs	84.48
Leakage Rate ²	%/year	0.5%
Annual Leakage	lbs SF ₆ /year	0.4224
GWP SF ₆		23,900
Annual Emissions	MT CO ₂ E/year	4.59

Notes:

1. Email from Mitch Hawk to AECOM dated 2/20/13
2. Typical upper-bound leakage rate for new devices.
NEMA Guideline - 0.1%/year
IEC Specification - 0.5%/year

Wistaria Ranch Solar Energy Center Decommissioning
Imperial County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	2,793.00	User Defined Unit	2,793.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.4	Precipitation Freq (Days)	12
Climate Zone	15			Operational Year	2035
Utility Company	Imperial Irrigation District				
CO2 Intensity (lb/MWhr)	1270.9	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Estimated acreage based on most recent project description

Construction Phase - Estimated construction schedule provided by project applicant

Off-road Equipment - Estimated construction equipment per project applicant

Off-road Equipment - Estimated construction equipment per project applicant

Off-road Equipment - Estimated construction equipment per project applicant

Off-road Equipment - Equipment estimates based on total construction equipment divided by number of construction days

Off-road Equipment - Estimated construction equipment per project applicant

Off-road Equipment - Estimated construction equipment per project applicant

Off-road Equipment - Estimated construction equipment per project applicant

Off-road Equipment - Estimated construction equipment per project applicant

Off-road Equipment - Estimated construction equipment per project applicant

Off-road Equipment - Estimated construction equipment per project applicant

Trips and VMT - Construction worker trips based on a maximum of 350 workers per day (525 ADT including carpools). Haul trucks based on a maximum of 46 trips per day.

On-road Fugitive Dust - Assumes travel on paved roads

Grading - Estimated disturbed acreage based on project area and construction schedule

Vehicle Trips - Does not include estimates of operational emissions.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Water And Wastewater -

Construction Off-road Equipment Mitigation - Includes mitigation to Tier 3 engines for all equipment greater than 50 hp.

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	100
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	22.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	28.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
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tblConstructionPhase	NumDays	155,000.00	147.00
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tblConstructionPhase	NumDays	155,000.00	241.00
tblConstructionPhase	NumDays	6,000.00	21.00
tblConstructionPhase	NumDays	6,000.00	194.00
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tblConstructionPhase	PhaseEndDate	10/3/2047	11/30/2046
tblConstructionPhase	PhaseEndDate	4/27/2046	4/29/2046
tblConstructionPhase	PhaseEndDate	12/20/2046	5/30/2046
tblConstructionPhase	PhaseEndDate	3/26/2047	9/30/2046
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tblConstructionPhase	PhaseStartDate	4/30/2046	8/1/2045

tblConstructionPhase	PhaseStartDate	12/1/2046	8/11/2045
tblConstructionPhase	PhaseStartDate	5/31/2046	10/6/2045
tblConstructionPhase	PhaseStartDate	10/1/2046	12/1/2045
tblConstructionPhase	PhaseStartDate	11/1/2046	12/29/2045
tblConstructionPhase	PhaseStartDate	4/1/2046	9/8/2045
tblConstructionPhase	PhaseStartDate	5/1/2046	11/3/2045
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tblLandUse	LotAcreage	0.00	2,793.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
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tblOffRoadEquipment	PhaseName		Miscellaneous
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[illegible]

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tblOnRoadDust	WorkerPercentPave	50.00	100.00
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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					
2045	8.7812	28.5512	73.9564	0.2246	21.4921	0.6297	22.1218	3.1763	0.6297	3.8060	0.0000	22,392.18 70	22,392.18 70	0.7763	0.0000	22,408.48 83
2046	9.0557	29.0324	77.4937	0.2336	22.1756	0.6483	22.8239	3.3441	0.6483	3.9924	0.0000	23,242.26 94	23,242.26 94	0.8000	0.0000	23,259.06 87
Total	17.8369	57.5836	151.4501	0.4582	43.6677	1.2780	44.9457	6.5204	1.2780	7.7984	0.0000	45,634.45 64	45,634.45 64	1.5762	0.0000	45,667.55 71

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					
2045	8.7812	28.5512	73.9564	0.2246	12.0641	0.6297	12.6938	2.1583	0.6297	2.7880	0.0000	22,392.1870	22,392.1870	0.7763	0.0000	22,408.4883
2046	9.0557	29.0324	77.4937	0.2336	12.7477	0.6483	13.3960	2.3261	0.6483	2.9744	0.0000	23,242.2694	23,242.2694	0.8000	0.0000	23,259.0687
Total	17.8369	57.5836	151.4501	0.4582	24.8118	1.2780	26.0898	4.4844	1.2780	5.7624	0.0000	45,634.4564	45,634.4564	1.5762	0.0000	45,667.5570

	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	43.18	0.00	41.95	31.22	0.00	26.11	0.00	0.00	0.00	0.00	0.00	0.00

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	0.0259	2.5500e-003	0.2835	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		0.6113	0.6113	1.5700e-003		0.6443
Energy	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
Mobile	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
Total	0.0259	2.5500e-003	0.2835	2.0000e-005	0.0000	1.0100e-003	1.0100e-003	0.0000	1.0100e-003	1.0100e-003		0.6113	0.6113	1.5700e-003	0.0000	0.6443

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	0.0259	2.5500e-003	0.2835	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		0.6113	0.6113	1.5700e-003		0.6443
Energy	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
Mobile	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
Total	0.0259	2.5500e-003	0.2835	2.0000e-005	0.0000	1.0100e-003	1.0100e-003	0.0000	1.0100e-003	1.0100e-003		0.6113	0.6113	1.5700e-003	0.0000	0.6443

	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	Mobilization	Site Preparation	7/1/2045	7/31/2045	5	21	
2	Site Preparation	Site Preparation	8/1/2045	4/29/2046	5	194	
3	Miscellaneous	Building Construction	8/1/2045	11/30/2046	5	349	
4	Substation	Building Construction	8/11/2045	3/31/2046	5	166	
5	Post Installation	Trenching	9/8/2045	5/30/2046	5	189	
6	Transmission Line	Building Construction	10/6/2045	4/30/2046	5	147	
7	Below Grade Electrical	Trenching	11/3/2045	9/30/2046	5	236	
8	Above Grade Electrical	Building Construction	12/1/2045	10/31/2046	5	239	
9	Module Installation	Building Construction	12/29/2045	11/30/2046	5	241	
10	O&M Building	Building Construction	1/12/2046	4/29/2046	5	76	

Acres of Grading (Site Preparation Phase): 2793

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Mobilization	Off-Highway Trucks	3	2.00	350	0.38

Site Preparation	Graders	4	8.00	200	0.41
Site Preparation	Off-Highway Tractors	3	8.00	250	0.44
Site Preparation	Off-Highway Trucks	4	8.00	300	0.38
Site Preparation	Off-Highway Trucks	3	4.00	300	0.38
Site Preparation	Plate Compactors	3	3.00	100	0.43
Site Preparation	Rough Terrain Forklifts	1	2.00	75	0.40
Site Preparation	Scrapers	2	4.00	300	0.48
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	150	0.37
Miscellaneous	Air Compressors	1	2.00	75	0.48
Miscellaneous	Generator Sets	3	8.00	5	0.74
Miscellaneous	Off-Highway Trucks	1	1.00	180	0.38
Miscellaneous	Off-Highway Trucks	1	2.00	350	0.38
Miscellaneous	Plate Compactors	4	1.00	15	0.43
Substation	Cranes	1	5.00	200	0.29
Substation	Tractors/Loaders/Backhoes	1	7.00	150	0.37
Post Installation	Bore/Drill Rigs	6	8.00	45	0.50
Post Installation	Rough Terrain Forklifts	4	7.00	75	0.40
Transmission Line	Aerial Lifts	1	2.00	110	0.31
Transmission Line	Cranes	1	2.00	500	0.29
Transmission Line	Cranes	1	2.00	220	0.29
Transmission Line	Off-Highway Trucks	1	2.00	210	0.38
Below Grade Electrical	Excavators	2	7.00	45	0.38
Below Grade Electrical	Tractors/Loaders/Backhoes	2	7.00	150	0.37
Below Grade Electrical	Trenchers	1	4.00	100	0.50
Above Grade Electrical	Rough Terrain Forklifts	2	2.00	75	0.40
Module Installation	Rough Terrain Forklifts	8	2.00	75	0.40
O&M Building	Cranes	1	5.00	200	0.29
O&M Building	Tractors/Loaders/Backhoes	1	7.00	150	0.37

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
Mobilization	3	3.00	0.00	3.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	22	29.00	0.00	3.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Miscellaneous	10	29.00	0.00	3.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Substation	2	29.00	0.00	3.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Post Installation	10	29.00	0.00	3.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Transmission Line	4	29.00	0.00	3.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Below Grade Electrical	5	29.00	0.00	3.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Above Grade Electrical	2	29.00	0.00	3.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Module Installation	8	29.00	0.00	3.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
O&M Building	2	29.00	0.00	3.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Mobilization - 2045**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3589	0.5366	1.9440	8.8000e-003		0.0211	0.0211		0.0211	0.0211		999.8021	999.8021	0.0317		1,000.4671
Total	0.3589	0.5366	1.9440	8.8000e-003	0.0000	0.0211	0.0211	0.0000	0.0211	0.0211		999.8021	999.8021	0.0317		1,000.4671

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					3.7800e-003	0.0000	3.7800e-003	9.3000e-004	0.0000	9.3000e-004			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.0793	0.0000	0.0793	0.0195	0.0000	0.0195			0.0000			0.0000
Total					0.0831	0.0000	0.0831	0.0204	0.0000	0.0204			0.0000			0.0000

3.2 Mobilization - 2045**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3589	0.5366	1.9440	8.8000e-003		0.0211	0.0211		0.0211	0.0211	0.0000	999.8021	999.8021	0.0317		1,000.4671
Total	0.3589	0.5366	1.9440	8.8000e-003	0.0000	0.0211	0.0211	0.0000	0.0211	0.0211	0.0000	999.8021	999.8021	0.0317		1,000.4671

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					3.7800e-003	0.0000	3.7800e-003	9.3000e-004	0.0000	9.3000e-004			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.0793	0.0000	0.0793	0.0195	0.0000	0.0195			0.0000			0.0000
Total					0.0831	0.0000	0.0831	0.0204	0.0000	0.0204			0.0000			0.0000

3.3 Site Preparation - 2045**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					15.2679	0.0000	15.2679	1.6486	0.0000	1.6486			0.0000			0.0000
Off-Road	5.6304	11.8030	35.4459	0.1502		0.4397	0.4397		0.4397	0.4397		15,510.71 42	15,510.71 42	0.4977		15,521.16 68
Total	5.6304	11.8030	35.4459	0.1502	15.2679	0.4397	15.7076	1.6486	0.4397	2.0882		15,510.71 42	15,510.71 42	0.4977		15,521.16 68

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					7.3000e-004	0.0000	7.3000e-004	1.8000e-004	0.0000	1.8000e-004			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7676	0.0000	0.7676	0.1884	0.0000	0.1884			0.0000			0.0000

3.3 Site Preparation - 2045**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					5.8400	0.0000	5.8400	0.6306	0.0000	0.6306			0.0000			0.0000
Off-Road	5.6304	11.8030	35.4459	0.1502		0.4397	0.4397		0.4397	0.4397	0.0000	15,510.71 42	15,510.71 42	0.4977		15,521.16 68
Total	5.6304	11.8030	35.4459	0.1502	5.8400	0.4397	6.2796	0.6306	0.4397	1.0702	0.0000	15,510.71 42	15,510.71 42	0.4977		15,521.16 68

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					7.3000e-004	0.0000	7.3000e-004	1.8000e-004	0.0000	1.8000e-004			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7676	0.0000	0.7676	0.1884	0.0000	0.1884			0.0000			0.0000

3.3 Site Preparation - 2046**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					15.2679	0.0000	15.2679	1.6486	0.0000	1.6486			0.0000			0.0000
Off-Road	5.6304	11.8030	35.4459	0.1502		0.4397	0.4397		0.4397	0.4397		15,510.71 42	15,510.71 42	0.4977		15,521.16 68
Total	5.6304	11.8030	35.4459	0.1502	15.2679	0.4397	15.7076	1.6486	0.4397	2.0882		15,510.71 42	15,510.71 42	0.4977		15,521.16 68

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					9.3000e-004	0.0000	9.3000e-004	2.3000e-004	0.0000	2.3000e-004			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7678	0.0000	0.7678	0.1885	0.0000	0.1885			0.0000			0.0000

3.3 Site Preparation - 2046**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					5.8400	0.0000	5.8400	0.6306	0.0000	0.6306			0.0000			0.0000
Off-Road	5.6304	11.8030	35.4459	0.1502		0.4397	0.4397		0.4397	0.4397	0.0000	15,510.71 42	15,510.71 42	0.4977		15,521.16 68
Total	5.6304	11.8030	35.4459	0.1502	5.8400	0.4397	6.2796	0.6306	0.4397	1.0702	0.0000	15,510.71 42	15,510.71 42	0.4977		15,521.16 68

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					9.3000e-004	0.0000	9.3000e-004	2.3000e-004	0.0000	2.3000e-004			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7678	0.0000	0.7678	0.1885	0.0000	0.1885			0.0000			0.0000

3.4 Miscellaneous - 2045

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	0.2248	0.6935	1.5958	5.2400e-003		0.0204	0.0204		0.0204	0.0204		541.4970	541.4970	0.0198		541.9128
Total	0.2248	0.6935	1.5958	5.2400e-003		0.0204	0.0204		0.0204	0.0204		541.4970	541.4970	0.0198		541.9128

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					7.3000e-004	0.0000	7.3000e-004	1.8000e-004	0.0000	1.8000e-004			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7676	0.0000	0.7676	0.1884	0.0000	0.1884			0.0000			0.0000

3.4 Miscellaneous - 2045**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	0.2248	0.6935	1.5958	5.2400e-003		0.0204	0.0204		0.0204	0.0204	0.0000	541.4970	541.4970	0.0198		541.9128
Total	0.2248	0.6935	1.5958	5.2400e-003		0.0204	0.0204		0.0204	0.0204	0.0000	541.4970	541.4970	0.0198		541.9128

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					7.3000e-004	0.0000	7.3000e-004	1.8000e-004	0.0000	1.8000e-004			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7676	0.0000	0.7676	0.1884	0.0000	0.1884			0.0000			0.0000

3.4 Miscellaneous - 2046**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	0.2248	0.6935	1.5958	5.2400e-003		0.0204	0.0204		0.0204	0.0204		541.4970	541.4970	0.0198		541.9128
Total	0.2248	0.6935	1.5958	5.2400e-003		0.0204	0.0204		0.0204	0.0204		541.4970	541.4970	0.0198		541.9128

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					3.3000e-004	0.0000	3.3000e-004	8.0000e-005	0.0000	8.0000e-005			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7672	0.0000	0.7672	0.1883	0.0000	0.1883			0.0000			0.0000

3.4 Miscellaneous - 2046**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	0.2248	0.6935	1.5958	5.2400e-003		0.0204	0.0204		0.0204	0.0204	0.0000	541.4970	541.4970	0.0198		541.9128
Total	0.2248	0.6935	1.5958	5.2400e-003		0.0204	0.0204		0.0204	0.0204	0.0000	541.4970	541.4970	0.0198		541.9128

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					3.3000e-004	0.0000	3.3000e-004	8.0000e-005	0.0000	8.0000e-005			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7672	0.0000	0.7672	0.1883	0.0000	0.1883			0.0000			0.0000

3.5 Substation - 2045**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	0.2746	0.4812	3.5373	8.9800e-003		0.0186	0.0186		0.0186	0.0186		850.0824	850.0824	0.0237		850.5804
Total	0.2746	0.4812	3.5373	8.9800e-003		0.0186	0.0186		0.0186	0.0186		850.0824	850.0824	0.0237		850.5804

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					7.9000e-004	0.0000	7.9000e-004	1.9000e-004	0.0000	1.9000e-004			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7676	0.0000	0.7676	0.1884	0.0000	0.1884			0.0000			0.0000

3.5 Substation - 2045**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	0.2746	0.4812	3.5373	8.9800e-003		0.0186	0.0186		0.0186	0.0186	0.0000	850.0824	850.0824	0.0237		850.5804
Total	0.2746	0.4812	3.5373	8.9800e-003		0.0186	0.0186		0.0186	0.0186	0.0000	850.0824	850.0824	0.0237		850.5804

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					7.9000e-004	0.0000	7.9000e-004	1.9000e-004	0.0000	1.9000e-004			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7676	0.0000	0.7676	0.1884	0.0000	0.1884			0.0000			0.0000

3.5 Substation - 2046**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	0.2746	0.4812	3.5373	8.9800e-003		0.0186	0.0186		0.0186	0.0186		850.0824	850.0824	0.0237		850.5804
Total	0.2746	0.4812	3.5373	8.9800e-003		0.0186	0.0186		0.0186	0.0186		850.0824	850.0824	0.0237		850.5804

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					1.2200e-003	0.0000	1.2200e-003	3.0000e-004	0.0000	3.0000e-004			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7680	0.0000	0.7680	0.1885	0.0000	0.1885			0.0000			0.0000

3.5 Substation - 2046**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	0.2746	0.4812	3.5373	8.9800e-003		0.0186	0.0186		0.0186	0.0186	0.0000	850.0824	850.0824	0.0237		850.5804
Total	0.2746	0.4812	3.5373	8.9800e-003		0.0186	0.0186		0.0186	0.0186	0.0000	850.0824	850.0824	0.0237		850.5804

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					1.2200e-003	0.0000	1.2200e-003	3.0000e-004	0.0000	3.0000e-004			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7680	0.0000	0.7680	0.1885	0.0000	0.1885			0.0000			0.0000

3.6 Post Installation - 2045**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	1.3064	9.9383	16.4929	0.0278		0.0606	0.0606		0.0606	0.0606		2,405.5413	2,405.5413	0.1164		2,407.9857
Total	1.3064	9.9383	16.4929	0.0278		0.0606	0.0606		0.0606	0.0606		2,405.5413	2,405.5413	0.1164		2,407.9857

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					9.8000e-004	0.0000	9.8000e-004	2.4000e-004	0.0000	2.4000e-004			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7678	0.0000	0.7678	0.1885	0.0000	0.1885			0.0000			0.0000

3.6 Post Installation - 2045**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	1.3064	9.9383	16.4929	0.0278		0.0606	0.0606		0.0606	0.0606	0.0000	2,405.5413	2,405.5413	0.1164		2,407.9857
Total	1.3064	9.9383	16.4929	0.0278		0.0606	0.0606		0.0606	0.0606	0.0000	2,405.5413	2,405.5413	0.1164		2,407.9857

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	0.0000	9.8000e-004	2.4000e-004	0.0000	2.4000e-004			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7678	0.0000	0.7678	0.1885	0.0000	0.1885			0.0000			0.0000

3.6 Post Installation - 2046**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	1.3064	9.9383	16.4929	0.0278		0.0606	0.0606		0.0606	0.0606		2,405.5413	2,405.5413	0.1164		2,407.9857
Total	1.3064	9.9383	16.4929	0.0278		0.0606	0.0606		0.0606	0.0606		2,405.5413	2,405.5413	0.1164		2,407.9857

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					7.3000e-004	0.0000	7.3000e-004	1.8000e-004	0.0000	1.8000e-004			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7676	0.0000	0.7676	0.1884	0.0000	0.1884			0.0000			0.0000

3.6 Post Installation - 2046**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	1.3064	9.9383	16.4929	0.0278		0.0606	0.0606		0.0606	0.0606	0.0000	2,405.5413	2,405.5413	0.1164		2,407.9857
Total	1.3064	9.9383	16.4929	0.0278		0.0606	0.0606		0.0606	0.0606	0.0000	2,405.5413	2,405.5413	0.1164		2,407.9857

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					7.3000e-004	0.0000	7.3000e-004	1.8000e-004	0.0000	1.8000e-004			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7676	0.0000	0.7676	0.1884	0.0000	0.1884			0.0000			0.0000

3.7 Transmission Line - 2045**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	0.2755	0.6330	1.9302	7.9000e-003		0.0180	0.0180		0.0180	0.0180		808.6122	808.6122	0.0241		809.1181
Total	0.2755	0.6330	1.9302	7.9000e-003		0.0180	0.0180		0.0180	0.0180		808.6122	808.6122	0.0241		809.1181

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					1.3000e-003	0.0000	1.3000e-003	3.2000e-004	0.0000	3.2000e-004			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7681	0.0000	0.7681	0.1885	0.0000	0.1885			0.0000			0.0000

3.7 Transmission Line - 2045**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	0.2755	0.6330	1.9302	7.9000e-003		0.0180	0.0180		0.0180	0.0180	0.0000	808.6122	808.6122	0.0241		809.1181
Total	0.2755	0.6330	1.9302	7.9000e-003		0.0180	0.0180		0.0180	0.0180	0.0000	808.6122	808.6122	0.0241		809.1181

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					1.3000e-003	0.0000	1.3000e-003	3.2000e-004	0.0000	3.2000e-004			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7681	0.0000	0.7681	0.1885	0.0000	0.1885			0.0000			0.0000

3.7 Transmission Line - 2046**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	0.2755	0.6330	1.9302	7.9000e-003		0.0180	0.0180		0.0180	0.0180		808.6122	808.6122	0.0241		809.1181
Total	0.2755	0.6330	1.9302	7.9000e-003		0.0180	0.0180		0.0180	0.0180		808.6122	808.6122	0.0241		809.1181

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					9.2000e-004	0.0000	9.2000e-004	2.3000e-004	0.0000	2.3000e-004			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7677	0.0000	0.7677	0.1885	0.0000	0.1885			0.0000			0.0000

3.7 Transmission Line - 2046**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	0.2755	0.6330	1.9302	7.9000e-003		0.0180	0.0180		0.0180	0.0180	0.0000	808.6122	808.6122	0.0241		809.1181
Total	0.2755	0.6330	1.9302	7.9000e-003		0.0180	0.0180		0.0180	0.0180	0.0000	808.6122	808.6122	0.0241		809.1181

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					9.2000e-004	0.0000	9.2000e-004	2.3000e-004	0.0000	2.3000e-004			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7677	0.0000	0.7677	0.1885	0.0000	0.1885			0.0000			0.0000

3.8 Below Grade Electrical - 2045**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	0.7282	3.0380	10.0310	0.0166		0.0513	0.0513		0.0513	0.0513		1,524.009 1	1,524.009 1	0.0641		1,525.354 7
Total	0.7282	3.0380	10.0310	0.0166		0.0513	0.0513		0.0513	0.0513		1,524.009 1	1,524.009 1	0.0641		1,525.354 7

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					1.9300e-003	0.0000	1.9300e-003	4.7000e-004	0.0000	4.7000e-004			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7668	0.0000	0.7668	0.1887	0.0000	0.1887			0.0000			0.0000

3.8 Below Grade Electrical - 2045**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	0.7282	3.0380	10.0310	0.0166		0.0513	0.0513		0.0513	0.0513	0.0000	1,524.009 1	1,524.009 1	0.0641		1,525.354 7
Total	0.7282	3.0380	10.0310	0.0166		0.0513	0.0513		0.0513	0.0513	0.0000	1,524.009 1	1,524.009 1	0.0641		1,525.354 7

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					1.9300e-003	0.0000	1.9300e-003	4.7000e-004	0.0000	4.7000e-004			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7688	0.0000	0.7688	0.1887	0.0000	0.1887			0.0000			0.0000

3.8 Below Grade Electrical - 2046**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	0.7282	3.0380	10.0310	0.0166		0.0513	0.0513		0.0513	0.0513		1,524.009 1	1,524.009 1	0.0641		1,525.354 7
Total	0.7282	3.0380	10.0310	0.0166		0.0513	0.0513		0.0513	0.0513		1,524.009 1	1,524.009 1	0.0641		1,525.354 7

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					4.1000e-004	0.0000	4.1000e-004	1.0000e-004	0.0000	1.0000e-004			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7672	0.0000	0.7672	0.1883	0.0000	0.1883			0.0000			0.0000

3.8 Below Grade Electrical - 2046**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	0.7282	3.0380	10.0310	0.0166		0.0513	0.0513		0.0513	0.0513	0.0000	1,524.009 1	1,524.009 1	0.0641		1,525.354 7
Total	0.7282	3.0380	10.0310	0.0166		0.0513	0.0513		0.0513	0.0513	0.0000	1,524.009 1	1,524.009 1	0.0641		1,525.354 7

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					4.1000e-004	0.0000	4.1000e-004	1.0000e-004	0.0000	1.0000e-004			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7672	0.0000	0.7672	0.1883	0.0000	0.1883			0.0000			0.0000

3.9 Above Grade Electrical - 2045**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	0.0683	0.3929	0.9847	1.5900e-003		4.2300e-003	4.2300e-003		4.2300e-003	4.2300e-003		150.3462	150.3462	6.0800e-003		150.4740
Total	0.0683	0.3929	0.9847	1.5900e-003		4.2300e-003	4.2300e-003		4.2300e-003	4.2300e-003		150.3462	150.3462	6.0800e-003		150.4740

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					3.7800e-003	0.0000	3.7800e-003	9.3000e-004	0.0000	9.3000e-004			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7706	0.0000	0.7706	0.1892	0.0000	0.1892			0.0000			0.0000

3.9 Above Grade Electrical - 2045**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	0.0683	0.3929	0.9847	1.5900e-003		4.2300e-003	4.2300e-003		4.2300e-003	4.2300e-003	0.0000	150.3462	150.3462	6.0800e-003		150.4740
Total	0.0683	0.3929	0.9847	1.5900e-003		4.2300e-003	4.2300e-003		4.2300e-003	4.2300e-003	0.0000	150.3462	150.3462	6.0800e-003		150.4740

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					3.7800e-003	0.0000	3.7800e-003	9.3000e-004	0.0000	9.3000e-004			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7706	0.0000	0.7706	0.1892	0.0000	0.1892			0.0000			0.0000

3.9 Above Grade Electrical - 2046**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	0.0683	0.3929	0.9847	1.5900e-003		4.2300e-003	4.2300e-003		4.2300e-003	4.2300e-003		150.3462	150.3462	6.0800e-003		150.4740
Total	0.0683	0.3929	0.9847	1.5900e-003		4.2300e-003	4.2300e-003		4.2300e-003	4.2300e-003		150.3462	150.3462	6.0800e-003		150.4740

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					3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	9.0000e-005			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7672	0.0000	0.7672	0.1883	0.0000	0.1883			0.0000			0.0000

3.9 Above Grade Electrical - 2046**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	0.0683	0.3929	0.9847	1.5900e-003		4.2300e-003	4.2300e-003		4.2300e-003	4.2300e-003	0.0000	150.3462	150.3462	6.0800e-003		150.4740
Total	0.0683	0.3929	0.9847	1.5900e-003		4.2300e-003	4.2300e-003		4.2300e-003	4.2300e-003	0.0000	150.3462	150.3462	6.0800e-003		150.4740

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					3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	9.0000e-005			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7672	0.0000	0.7672	0.1883	0.0000	0.1883			0.0000			0.0000

3.10 Module Installation - 2045**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	0.2730	1.5715	3.9387	6.3500e-003		0.0169	0.0169		0.0169	0.0169		601.3847	601.3847	0.0243		601.8958
Total	0.2730	1.5715	3.9387	6.3500e-003		0.0169	0.0169		0.0169	0.0169		601.3847	601.3847	0.0243		601.8958

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					0.0793	0.0000	0.0793	0.0195	0.0000	0.0195			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.8462	0.0000	0.8462	0.2077	0.0000	0.2077			0.0000			0.0000

3.10 Module Installation - 2045**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	0.2730	1.5715	3.9387	6.3500e-003		0.0169	0.0169		0.0169	0.0169	0.0000	601.3847	601.3847	0.0243		601.8958
Total	0.2730	1.5715	3.9387	6.3500e-003		0.0169	0.0169		0.0169	0.0169	0.0000	601.3847	601.3847	0.0243		601.8958

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					0.0793	0.0000	0.0793	0.0195	0.0000	0.0195			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.8462	0.0000	0.8462	0.2077	0.0000	0.2077			0.0000			0.0000

3.10 Module Installation - 2046**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	0.2730	1.5715	3.9387	6.3500e-003		0.0169	0.0169		0.0169	0.0169		601.3847	601.3847	0.0243		601.8958
Total	0.2730	1.5715	3.9387	6.3500e-003		0.0169	0.0169		0.0169	0.0169		601.3847	601.3847	0.0243		601.8958

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					3.3000e-004	0.0000	3.3000e-004	8.0000e-005	0.0000	8.0000e-005			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7672	0.0000	0.7672	0.1883	0.0000	0.1883			0.0000			0.0000

3.10 Module Installation - 2046**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	0.2730	1.5715	3.9387	6.3500e-003		0.0169	0.0169		0.0169	0.0169	0.0000	601.3847	601.3847	0.0243		601.8958
Total	0.2730	1.5715	3.9387	6.3500e-003		0.0169	0.0169		0.0169	0.0169	0.0000	601.3847	601.3847	0.0243		601.8958

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					3.3000e-004	0.0000	3.3000e-004	8.0000e-005	0.0000	8.0000e-005			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7672	0.0000	0.7672	0.1883	0.0000	0.1883			0.0000			0.0000

3.11 O&M Building - 2046**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	0.2746	0.4812	3.5373	8.9800e-003		0.0186	0.0186		0.0186	0.0186		850.0824	850.0824	0.0237		850.5804
Total	0.2746	0.4812	3.5373	8.9800e-003		0.0186	0.0186		0.0186	0.0186		850.0824	850.0824	0.0237		850.5804

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					1.0400e-003	0.0000	1.0400e-003	2.6000e-004	0.0000	2.6000e-004			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7679	0.0000	0.7679	0.1885	0.0000	0.1885			0.0000			0.0000

3.11 O&M Building - 2046**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	0.2746	0.4812	3.5373	8.9800e-003		0.0186	0.0186		0.0186	0.0186	0.0000	850.0824	850.0824	0.0237		850.5804
Total	0.2746	0.4812	3.5373	8.9800e-003		0.0186	0.0186		0.0186	0.0186	0.0000	850.0824	850.0824	0.0237		850.5804

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					1.0400e-003	0.0000	1.0400e-003	2.6000e-004	0.0000	2.6000e-004			0.0000			0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.7668	0.0000	0.7668	0.1882	0.0000	0.1882			0.0000			0.0000
Total					0.7679	0.0000	0.7679	0.1885	0.0000	0.1885			0.0000			0.0000

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		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		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
User Defined Industrial	6.70	5.00	8.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.463880	0.071076	0.166461	0.158365	0.044517	0.005545	0.010587	0.072429	0.001764	0.000163	0.002545	0.000601	0.002067

5.0 Energy Detail

4.4 Fleet Mix

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	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

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					
User Defined Industrial	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		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

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					
User Defined Industrial	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		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	0.0259	2.5500e-003	0.2835	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		0.6113	0.6113	1.5700e-003		0.6443
Unmitigated	0.0259	2.5500e-003	0.2835	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		0.6113	0.6113	1.5700e-003		0.6443

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0259	2.5500e-003	0.2835	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		0.6113	0.6113	1.5700e-003		0.6443
Total	0.0259	2.5500e-003	0.2835	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		0.6113	0.6113	1.5700e-003		0.6443

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0259	2.5500e-003	0.2835	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		0.6113	0.6113	1.5700e-003		0.6443
Total	0.0259	2.5500e-003	0.2835	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		0.6113	0.6113	1.5700e-003		0.6443

7.0 Water Detail

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 Vegetation

Wistaria Ranch Solar Energy Center Decommissioning
Imperial County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	2,793.00	User Defined Unit	2,793.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.4	Precipitation Freq (Days)	12
Climate Zone	15			Operational Year	2035
Utility Company	Imperial Irrigation District				
CO2 Intensity (lb/MWhr)	1270.9	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Estimated acreage based on most recent project description

Construction Phase - Estimated construction schedule provided by project applicant

Off-road Equipment - Estimated construction equipment per project applicant

Off-road Equipment - Estimated construction equipment per project applicant

Off-road Equipment - Estimated construction equipment per project applicant

Off-road Equipment - Equipment estimates based on total construction equipment divided by number of construction days

Off-road Equipment - Estimated construction equipment per project applicant

Off-road Equipment - Estimated construction equipment per project applicant

Off-road Equipment - Estimated construction equipment per project applicant

Off-road Equipment - Estimated construction equipment per project applicant

Off-road Equipment - Estimated construction equipment per project applicant

Off-road Equipment - Estimated construction equipment per project applicant

Trips and VMT - Construction worker trips based on a maximum of 350 workers per day (525 ADT including carpools). Haul trucks based on a maximum of 46 trips per day.

On-road Fugitive Dust - Assumes travel on paved roads

Grading - Estimated disturbed acreage based on project area and construction schedule

Vehicle Trips - Does not include estimates of operational emissions.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Water And Wastewater -

Construction Off-road Equipment Mitigation - Includes mitigation to Tier 3 engines for all equipment greater than 50 hp.

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	100
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	22.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	28.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstructionPhase	NumDays	155,000.00	76.00
tblConstructionPhase	NumDays	155,000.00	349.00
tblConstructionPhase	NumDays	155,000.00	166.00
tblConstructionPhase	NumDays	155,000.00	147.00
tblConstructionPhase	NumDays	155,000.00	239.00
tblConstructionPhase	NumDays	155,000.00	241.00
tblConstructionPhase	NumDays	6,000.00	21.00
tblConstructionPhase	NumDays	6,000.00	194.00
tblConstructionPhase	PhaseEndDate	3/18/2047	4/29/2046
tblConstructionPhase	PhaseEndDate	8/29/2047	11/30/2046
tblConstructionPhase	PhaseEndDate	7/22/2047	3/31/2046
tblConstructionPhase	PhaseEndDate	12/21/2046	4/30/2046
tblConstructionPhase	PhaseEndDate	8/29/2047	10/31/2046
tblConstructionPhase	PhaseEndDate	10/3/2047	11/30/2046
tblConstructionPhase	PhaseEndDate	4/27/2046	4/29/2046
tblConstructionPhase	PhaseEndDate	12/20/2046	5/30/2046
tblConstructionPhase	PhaseEndDate	3/26/2047	9/30/2046
tblConstructionPhase	PhaseStartDate	12/1/2046	1/12/2046
tblConstructionPhase	PhaseStartDate	4/30/2046	8/1/2045

tblConstructionPhase	PhaseStartDate	12/1/2046	8/11/2045
tblConstructionPhase	PhaseStartDate	5/31/2046	10/6/2045
tblConstructionPhase	PhaseStartDate	10/1/2046	12/1/2045
tblConstructionPhase	PhaseStartDate	11/1/2046	12/29/2045
tblConstructionPhase	PhaseStartDate	4/1/2046	9/8/2045
tblConstructionPhase	PhaseStartDate	5/1/2046	11/3/2045
tblGrading	AcresOfGrading	582.00	2,793.00
tblLandUse	LotAcreage	0.00	2,793.00
tblOffRoadEquipment	HorsePower	226.00	200.00
tblOffRoadEquipment	HorsePower	226.00	200.00
tblOffRoadEquipment	HorsePower	226.00	500.00
tblOffRoadEquipment	HorsePower	226.00	220.00
tblOffRoadEquipment	HorsePower	84.00	5.00
tblOffRoadEquipment	HorsePower	97.00	150.00
tblOffRoadEquipment	HorsePower	97.00	150.00
tblOffRoadEquipment	HorsePower	97.00	150.00
tblOffRoadEquipment	HorsePower	62.00	110.00
tblOffRoadEquipment	HorsePower	78.00	75.00
tblOffRoadEquipment	HorsePower	205.00	45.00
tblOffRoadEquipment	HorsePower	162.00	45.00
tblOffRoadEquipment	HorsePower	174.00	200.00
tblOffRoadEquipment	HorsePower	122.00	250.00
tblOffRoadEquipment	HorsePower	400.00	350.00
tblOffRoadEquipment	HorsePower	400.00	300.00
tblOffRoadEquipment	HorsePower	400.00	300.00
tblOffRoadEquipment	HorsePower	400.00	180.00
tblOffRoadEquipment	HorsePower	400.00	350.00
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tblOffRoadEquipment	HorsePower	100.00	75.00
tblOffRoadEquipment	HorsePower	100.00	75.00
tblOffRoadEquipment	HorsePower	100.00	75.00
tblOffRoadEquipment	HorsePower	100.00	75.00
tblOffRoadEquipment	HorsePower	361.00	300.00
tblOffRoadEquipment	HorsePower	97.00	150.00
tblOffRoadEquipment	HorsePower	80.00	100.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Transmission Line
tblOffRoadEquipment	PhaseName		Miscellaneous
tblOffRoadEquipment	PhaseName		Post Installation
tblOffRoadEquipment	PhaseName		Below Grade Electrical
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Mobilization
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Miscellaneous
tblOffRoadEquipment	PhaseName		Miscellaneous
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tblOffRoadEquipment	PhaseName		Miscellaneous
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Post Installation
tblOffRoadEquipment	PhaseName		Above Grade Electrical
tblOffRoadEquipment	PhaseName		Module Installation
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Below Grade Electrical
tblOffRoadEquipment	PhaseName		Below Grade Electrical
tblOffRoadEquipment	UsageHours	7.00	5.00

[illegible]

tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblProjectCharacteristics	OperationalYear	2014	2035
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
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tblTripsAndVMT	HaulingTripLength	20.00	40.00
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tblTripsAndVMT	HaulingTripNumber	0.00	3.00
tblTripsAndVMT	WorkerTripLength	7.30	40.00
tblTripsAndVMT	WorkerTripLength	7.30	40.00

tblTripsAndVMT	WorkerTripLength	7.30	40.00
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tblTripsAndVMT	WorkerTripLength	7.30	40.00
tblTripsAndVMT	WorkerTripLength	7.30	40.00
tblTripsAndVMT	WorkerTripNumber	8.00	3.00
tblTripsAndVMT	WorkerTripNumber	0.00	29.00
tblTripsAndVMT	WorkerTripNumber	55.00	29.00
tblTripsAndVMT	WorkerTripNumber	0.00	29.00
tblTripsAndVMT	WorkerTripNumber	0.00	29.00
tblTripsAndVMT	WorkerTripNumber	25.00	29.00
tblTripsAndVMT	WorkerTripNumber	0.00	29.00
tblTripsAndVMT	WorkerTripNumber	13.00	29.00
tblTripsAndVMT	WorkerTripNumber	0.00	29.00
tblTripsAndVMT	WorkerTripNumber	0.00	29.00

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					
2045	0.4138	1.2000	3.1626	0.0107	1.6814	0.0303	1.7118	0.2091	0.0303	0.2395	0.0000	982.9176	982.9176	0.0332	0.0000	983.6144
2046	0.4792	1.7103	4.4789	0.0120	1.9806	0.0340	2.0146	0.2826	0.0340	0.3165	0.0000	1,075.8577	1,075.8577	0.0384	0.0000	1,076.6646
Total	0.8931	2.9102	7.6415	0.0228	3.6621	0.0643	3.7264	0.4917	0.0643	0.5560	0.0000	2,058.7753	2,058.7753	0.0716	0.0000	2,060.2790

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					
2045	0.4138	1.2000	3.1626	0.0107	0.7669	0.0303	0.7973	0.1104	0.0303	0.1407	0.0000	982.9164	982.9164	0.0332	0.0000	983.6132
2046	0.4792	1.7103	4.4789	0.0120	1.0661	0.0340	1.1001	0.1838	0.0340	0.2178	0.0000	1,075.8565	1,075.8565	0.0384	0.0000	1,076.6634
Total	0.8931	2.9102	7.6415	0.0228	1.8330	0.0643	1.8974	0.2942	0.0643	0.3585	0.0000	2,058.7729	2,058.7729	0.0716	0.0000	2,060.2766

	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	49.95	0.00	49.08	40.17	0.00	35.52	0.00	0.00	0.00	0.00	0.00	0.00

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	2.3300e-003	2.3000e-004	0.0255	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0499	0.0499	1.3000e-004	0.0000	0.0526
Energy	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
Mobile	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	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.3300e-003	2.3000e-004	0.0255	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0499	0.0499	1.3000e-004	0.0000	0.0526

2.2 Overall Operational

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	2.3300e-003	2.3000e-004	0.0255	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0499	0.0499	1.3000e-004	0.0000	0.0526
Energy	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
Mobile	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	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.3300e-003	2.3000e-004	0.0255	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0499	0.0499	1.3000e-004	0.0000	0.0526

	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	Mobilization	Site Preparation	7/1/2045	7/31/2045	5	21	
2	Site Preparation	Site Preparation	8/1/2045	4/29/2046	5	194	
3	Miscellaneous	Building Construction	8/1/2045	11/30/2046	5	349	
4	Substation	Building Construction	8/11/2045	3/31/2046	5	166	
5	Post Installation	Trenching	9/8/2045	5/30/2046	5	189	
6	Transmission Line	Building Construction	10/6/2045	4/30/2046	5	147	
7	Below Grade Electrical	Trenching	11/3/2045	9/30/2046	5	236	
8	Above Grade Electrical	Building Construction	12/1/2045	10/31/2046	5	239	
9	Module Installation	Building Construction	12/29/2045	11/30/2046	5	241	
10	O&M Building	Building Construction	1/12/2046	4/29/2046	5	76	

Acres of Grading (Site Preparation Phase): 2793

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Mobilization	Off-Highway Trucks	3	2.00	350	0.38
Site Preparation	Graders	4	8.00	200	0.41
Site Preparation	Off-Highway Tractors	3	8.00	250	0.44
Site Preparation	Off-Highway Trucks	4	8.00	300	0.38
Site Preparation	Off-Highway Trucks	3	4.00	300	0.38
Site Preparation	Plate Compactors	3	3.00	100	0.43
Site Preparation	Rough Terrain Forklifts	1	2.00	75	0.40
Site Preparation	Scrapers	2	4.00	300	0.48

Site Preparation	Tractors/Loaders/Backhoes	2	8.00	150	0.37
Miscellaneous	Air Compressors	1	2.00	75	0.48
Miscellaneous	Generator Sets	3	8.00	5	0.74
Miscellaneous	Off-Highway Trucks	1	1.00	180	0.38
Miscellaneous	Off-Highway Trucks	1	2.00	350	0.38
Miscellaneous	Plate Compactors	4	1.00	15	0.43
Substation	Cranes	1	5.00	200	0.29
Substation	Tractors/Loaders/Backhoes	1	7.00	150	0.37
Post Installation	Bore/Drill Rigs	6	8.00	45	0.50
Post Installation	Rough Terrain Forklifts	4	7.00	75	0.40
Transmission Line	Aerial Lifts	1	2.00	110	0.31
Transmission Line	Cranes	1	2.00	500	0.29
Transmission Line	Cranes	1	2.00	220	0.29
Transmission Line	Off-Highway Trucks	1	2.00	210	0.38
Below Grade Electrical	Excavators	2	7.00	45	0.38
Below Grade Electrical	Tractors/Loaders/Backhoes	2	7.00	150	0.37
Below Grade Electrical	Trenchers	1	4.00	100	0.50
Above Grade Electrical	Rough Terrain Forklifts	2	2.00	75	0.40
Module Installation	Rough Terrain Forklifts	8	2.00	75	0.40
O&M Building	Cranes	1	5.00	200	0.29
O&M Building	Tractors/Loaders/Backhoes	1	7.00	150	0.37

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
Mobilization	3	3.00	0.00	3.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	22	29.00	0.00	3.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Miscellaneous	10	29.00	0.00	3.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Substation	2	29.00	0.00	3.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Post Installation	10	29.00	0.00	3.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Transmission Line	4	29.00	0.00	3.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Below Grade Electrical	5	29.00	0.00	3.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Above Grade Electrical	2	29.00	0.00	3.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Module Installation	8	29.00	0.00	3.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
O&M Building	2	29.00	0.00	3.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Mobilization - 2045

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.7700e-003	5.6300e-003	0.0204	9.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	9.5236	9.5236	3.0000e-004	0.0000	9.5299
Total	3.7700e-003	5.6300e-003	0.0204	9.0000e-005	0.0000	2.2000e-004	2.2000e-004	0.0000	2.2000e-004	2.2000e-004	0.0000	9.5236	9.5236	3.0000e-004	0.0000	9.5299

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	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
Worker					8.3000e-004	0.0000	8.3000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					8.7000e-004	0.0000	8.7000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.2 Mobilization - 2045

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.7700e-003	5.6300e-003	0.0204	9.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	9.5235	9.5235	3.0000e-004	0.0000	9.5299
Total	3.7700e-003	5.6300e-003	0.0204	9.0000e-005	0.0000	2.2000e-004	2.2000e-004	0.0000	2.2000e-004	2.2000e-004	0.0000	9.5235	9.5235	3.0000e-004	0.0000	9.5299

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	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
Worker					8.3000e-004	0.0000	8.3000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					8.7000e-004	0.0000	8.7000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.3 Site Preparation - 2045

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					1.4810	0.0000	1.4810	0.1599	0.0000	0.1599	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3069	0.6433	1.9318	8.1800e-003		0.0240	0.0240		0.0240	0.0240	0.0000	766.8740	766.8740	0.0246	0.0000	767.3908
Total	0.3069	0.6433	1.9318	8.1800e-003	1.4810	0.0240	1.5050	0.1599	0.0240	0.1839	0.0000	766.8740	766.8740	0.0246	0.0000	767.3908

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	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
Worker					0.0415	0.0000	0.0415	0.0102	0.0000	0.0102	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.0415	0.0000	0.0415	0.0102	0.0000	0.0102	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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					0.5665	0.0000	0.5665	0.0612	0.0000	0.0612	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3069	0.6433	1.9318	8.1800e-003		0.0240	0.0240		0.0240	0.0240	0.0000	766.8731	766.8731	0.0246	0.0000	767.3899
Total	0.3069	0.6433	1.9318	8.1800e-003	0.5665	0.0240	0.5904	0.0612	0.0240	0.0851	0.0000	766.8731	766.8731	0.0246	0.0000	767.3899

	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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	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
Worker					0.0415	0.0000	0.0415	0.0102	0.0000	0.0102	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.0415	0.0000	0.0415	0.0102	0.0000	0.0102	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.3 Site Preparation - 2046

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					1.4810	0.0000	1.4810	0.1599	0.0000	0.1599	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2393	0.5016	1.5065	6.3800e-003		0.0187	0.0187		0.0187	0.0187	0.0000	598.0210	598.0210	0.0192	0.0000	598.4240
Total	0.2393	0.5016	1.5065	6.3800e-003	1.4810	0.0187	1.4997	0.1599	0.0187	0.1786	0.0000	598.0210	598.0210	0.0192	0.0000	598.4240

Unmitigated Construction Off-Site

[illegible]

3.3 Site Preparation - 2046

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					0.5665	0.0000	0.5665	0.0612	0.0000	0.0612	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2393	0.5016	1.5065	6.3800e-003		0.0187	0.0187		0.0187	0.0187	0.0000	598.0203	598.0203	0.0192	0.0000	598.4233
Total	0.2393	0.5016	1.5065	6.3800e-003	0.5665	0.0187	0.5852	0.0612	0.0187	0.0799	0.0000	598.0203	598.0203	0.0192	0.0000	598.4233

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	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
Worker					0.0323	0.0000	0.0323	7.9300e-003	0.0000	7.9300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.0324	0.0000	0.0324	7.9400e-003	0.0000	7.9400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.4 Miscellaneous - 2045

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	0.0123	0.0378	0.0870	2.9000e-004		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	26.7725	26.7725	9.8000e-004	0.0000	26.7930
Total	0.0123	0.0378	0.0870	2.9000e-004		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	26.7725	26.7725	9.8000e-004	0.0000	26.7930

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	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
Worker					0.0415	0.0000	0.0415	0.0102	0.0000	0.0102	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.0415	0.0000	0.0415	0.0102	0.0000	0.0102	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.4 Miscellaneous - 2045

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	0.0123	0.0378	0.0870	2.9000e-004		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	26.7724	26.7724	9.8000e-004	0.0000	26.7930
Total	0.0123	0.0378	0.0870	2.9000e-004		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	26.7724	26.7724	9.8000e-004	0.0000	26.7930

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	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
Worker					0.0415	0.0000	0.0415	0.0102	0.0000	0.0102	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.0415	0.0000	0.0415	0.0102	0.0000	0.0102	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.4 Miscellaneous - 2046

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	0.0270	0.0832	0.1915	6.3000e-004		2.4500e-003	2.4500e-003		2.4500e-003	2.4500e-003	0.0000	58.9485	58.9485	2.1600e-003	0.0000	58.9938
Total	0.0270	0.0832	0.1915	6.3000e-004		2.4500e-003	2.4500e-003		2.4500e-003	2.4500e-003	0.0000	58.9485	58.9485	2.1600e-003	0.0000	58.9938

Unmitigated Construction Off-Site

[illegible]

3.4 Miscellaneous - 2046

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	0.0270	0.0832	0.1915	6.3000e-004		2.4500e-003	2.4500e-003		2.4500e-003	2.4500e-003	0.0000	58.9485	58.9485	2.1600e-003	0.0000	58.9937
Total	0.0270	0.0832	0.1915	6.3000e-004		2.4500e-003	2.4500e-003		2.4500e-003	2.4500e-003	0.0000	58.9485	58.9485	2.1600e-003	0.0000	58.9937

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	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
Worker					0.0913	0.0000	0.0913	0.0224	0.0000	0.0224	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.0913	0.0000	0.0913	0.0224	0.0000	0.0224	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.5 Substation - 2045

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	0.0139	0.0243	0.1786	4.5000e-004		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	38.9447	38.9447	1.0900e-003	0.0000	38.9675
Total	0.0139	0.0243	0.1786	4.5000e-004		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	38.9447	38.9447	1.0900e-003	0.0000	38.9675

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	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
Worker					0.0384	0.0000	0.0384	9.4300e-003	0.0000	9.4300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.0385	0.0000	0.0385	9.4400e-003	0.0000	9.4400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.5 Substation - 2045

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	0.0139	0.0243	0.1786	4.5000e-004		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	38.9446	38.9446	1.0900e-003	0.0000	38.9675
Total	0.0139	0.0243	0.1786	4.5000e-004		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	38.9446	38.9446	1.0900e-003	0.0000	38.9675

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	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
Worker					0.0384	0.0000	0.0384	9.4300e-003	0.0000	9.4300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.0385	0.0000	0.0385	9.4400e-003	0.0000	9.4400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.5 Substation - 2046

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	8.9200e-003	0.0156	0.1150	2.9000e-004		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	25.0634	25.0634	7.0000e-004	0.0000	25.0781
Total	8.9200e-003	0.0156	0.1150	2.9000e-004		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	25.0634	25.0634	7.0000e-004	0.0000	25.0781

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	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
Worker					0.0247	0.0000	0.0247	6.0700e-003	0.0000	6.0700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.0248	0.0000	0.0248	6.0800e-003	0.0000	6.0800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.5 Substation - 2046

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	8.9200e-003	0.0156	0.1150	2.9000e-004		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	25.0634	25.0634	7.0000e-004	0.0000	25.0781
Total	8.9200e-003	0.0156	0.1150	2.9000e-004		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	25.0634	25.0634	7.0000e-004	0.0000	25.0781

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	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
Worker					0.0247	0.0000	0.0247	6.0700e-003	0.0000	6.0700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.0248	0.0000	0.0248	6.0800e-003	0.0000	6.0800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.6 Post Installation - 2045

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	0.0529	0.4025	0.6680	1.1300e-003		2.4500e-003	2.4500e-003		2.4500e-003	2.4500e-003	0.0000	88.3820	88.3820	4.2800e-003	0.0000	88.4718
Total	0.0529	0.4025	0.6680	1.1300e-003		2.4500e-003	2.4500e-003		2.4500e-003	2.4500e-003	0.0000	88.3820	88.3820	4.2800e-003	0.0000	88.4718

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	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
Worker					0.0308	0.0000	0.0308	7.5600e-003	0.0000	7.5600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.0308	0.0000	0.0308	7.5700e-003	0.0000	7.5700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.6 Post Installation - 2045

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	0.0529	0.4025	0.6680	1.1300e-003		2.4500e-003	2.4500e-003		2.4500e-003	2.4500e-003	0.0000	88.3818	88.3818	4.2800e-003	0.0000	88.4717
Total	0.0529	0.4025	0.6680	1.1300e-003		2.4500e-003	2.4500e-003		2.4500e-003	2.4500e-003	0.0000	88.3818	88.3818	4.2800e-003	0.0000	88.4717

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	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
Worker					0.0308	0.0000	0.0308	7.5600e-003	0.0000	7.5600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.0308	0.0000	0.0308	7.5700e-003	0.0000	7.5700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.6 Post Installation - 2046

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	0.0705	0.5367	0.8906	1.5000e-003		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003	0.0000	117.8426	117.8426	5.7000e-003	0.0000	117.9624
Total	0.0705	0.5367	0.8906	1.5000e-003		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003	0.0000	117.8426	117.8426	5.7000e-003	0.0000	117.9624

Unmitigated Construction Off-Site

[illegible]

3.6 Post Installation - 2046

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	0.0705	0.5367	0.8906	1.5000e-003		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003	0.0000	117.8425	117.8425	5.7000e-003	0.0000	117.9622
Total	0.0705	0.5367	0.8906	1.5000e-003		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003	0.0000	117.8425	117.8425	5.7000e-003	0.0000	117.9622

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	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
Worker					0.0411	0.0000	0.0411	0.0101	0.0000	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.0411	0.0000	0.0411	0.0101	0.0000	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.7 Transmission Line - 2045

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	8.4000e-003	0.0193	0.0589	2.4000e-004		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	22.3736	22.3736	6.7000e-004	0.0000	22.3876
Total	8.4000e-003	0.0193	0.0589	2.4000e-004		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	22.3736	22.3736	6.7000e-004	0.0000	22.3876

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	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
Worker					0.0232	0.0000	0.0232	5.6900e-003	0.0000	5.6900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.0232	0.0000	0.0232	5.7000e-003	0.0000	5.7000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.7 Transmission Line - 2045

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	8.4000e-003	0.0193	0.0589	2.4000e-004		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	22.3736	22.3736	6.7000e-004	0.0000	22.3876
Total	8.4000e-003	0.0193	0.0589	2.4000e-004		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	22.3736	22.3736	6.7000e-004	0.0000	22.3876

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	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
Worker					0.0232	0.0000	0.0232	5.6900e-003	0.0000	5.6900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.0232	0.0000	0.0232	5.7000e-003	0.0000	5.7000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.7 Transmission Line - 2046

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	0.0119	0.0272	0.0830	3.4000e-004		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	31.5431	31.5431	9.4000e-004	0.0000	31.5628
Total	0.0119	0.0272	0.0830	3.4000e-004		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	31.5431	31.5431	9.4000e-004	0.0000	31.5628

Unmitigated Construction Off-Site

[illegible]

3.7 Transmission Line - 2046

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	0.0119	0.0272	0.0830	3.4000e-004		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	31.5431	31.5431	9.4000e-004	0.0000	31.5628
Total	0.0119	0.0272	0.0830	3.4000e-004		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	31.5431	31.5431	9.4000e-004	0.0000	31.5628

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	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
Worker					0.0327	0.0000	0.0327	8.0300e-003	0.0000	8.0300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.0327	0.0000	0.0327	8.0400e-003	0.0000	8.0400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.8 Below Grade Electrical - 2045

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	0.0149	0.0623	0.2056	3.4000e-004		1.0500e-003	1.0500e-003		1.0500e-003	1.0500e-003	0.0000	28.3424	28.3424	1.1900e-003	0.0000	28.3675
Total	0.0149	0.0623	0.2056	3.4000e-004		1.0500e-003	1.0500e-003		1.0500e-003	1.0500e-003	0.0000	28.3424	28.3424	1.1900e-003	0.0000	28.3675

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	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
Worker					0.0156	0.0000	0.0156	3.8300e-003	0.0000	3.8300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.0156	0.0000	0.0156	3.8400e-003	0.0000	3.8400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.8 Below Grade Electrical - 2045

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	0.0149	0.0623	0.2056	3.4000e-004		1.0500e-003	1.0500e-003		1.0500e-003	1.0500e-003	0.0000	28.3424	28.3424	1.1900e-003	0.0000	28.3674
Total	0.0149	0.0623	0.2056	3.4000e-004		1.0500e-003	1.0500e-003		1.0500e-003	1.0500e-003	0.0000	28.3424	28.3424	1.1900e-003	0.0000	28.3674

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	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
Worker					0.0156	0.0000	0.0156	3.8300e-003	0.0000	3.8300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.0156	0.0000	0.0156	3.8400e-003	0.0000	3.8400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.8 Below Grade Electrical - 2046

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	0.0710	0.2962	0.9780	1.6200e-003		5.0000e-003	5.0000e-003		5.0000e-003	5.0000e-003	0.0000	134.7994	134.7994	5.6700e-003	0.0000	134.9184
Total	0.0710	0.2962	0.9780	1.6200e-003		5.0000e-003	5.0000e-003		5.0000e-003	5.0000e-003	0.0000	134.7994	134.7994	5.6700e-003	0.0000	134.9184

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	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
Worker					0.0742	0.0000	0.0742	0.0182	0.0000	0.0182	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.0742	0.0000	0.0742	0.0182	0.0000	0.0182	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.8 Below Grade Electrical - 2046

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	0.0710	0.2962	0.9780	1.6200e-003		5.0000e-003	5.0000e-003		5.0000e-003	5.0000e-003	0.0000	134.7992	134.7992	5.6700e-003	0.0000	134.9182
Total	0.0710	0.2962	0.9780	1.6200e-003		5.0000e-003	5.0000e-003		5.0000e-003	5.0000e-003	0.0000	134.7992	134.7992	5.6700e-003	0.0000	134.9182

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	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
Worker					0.0742	0.0000	0.0742	0.0182	0.0000	0.0182	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.0742	0.0000	0.0742	0.0182	0.0000	0.0182	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.9 Above Grade Electrical - 2045

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	7.2000e-004	4.1300e-003	0.0103	2.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	1.4321	1.4321	6.0000e-005	0.0000	1.4333
Total	7.2000e-004	4.1300e-003	0.0103	2.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	1.4321	1.4321	6.0000e-005	0.0000	1.4333

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	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
Worker					7.9900e-003	0.0000	7.9900e-003	1.9600e-003	0.0000	1.9600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					8.0300e-003	0.0000	8.0300e-003	1.9700e-003	0.0000	1.9700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.9 Above Grade Electrical - 2045

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	7.2000e-004	4.1300e-003	0.0103	2.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	1.4321	1.4321	6.0000e-005	0.0000	1.4333
Total	7.2000e-004	4.1300e-003	0.0103	2.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	1.4321	1.4321	6.0000e-005	0.0000	1.4333

Mitigated Construction Off-Site

[illegible]

3.9 Above Grade Electrical - 2046

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	7.4400e-003	0.0428	0.1073	1.7000e-004		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	14.8667	14.8667	6.0000e-004	0.0000	14.8793
Total	7.4400e-003	0.0428	0.1073	1.7000e-004		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	14.8667	14.8667	6.0000e-004	0.0000	14.8793

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	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
Worker					0.0829	0.0000	0.0829	0.0204	0.0000	0.0204	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.0829	0.0000	0.0829	0.0204	0.0000	0.0204	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.9 Above Grade Electrical - 2046

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	7.4400e-003	0.0428	0.1073	1.7000e-004		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	14.8667	14.8667	6.0000e-004	0.0000	14.8793
Total	7.4400e-003	0.0428	0.1073	1.7000e-004		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	14.8667	14.8667	6.0000e-004	0.0000	14.8793

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	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
Worker					0.0829	0.0000	0.0829	0.0204	0.0000	0.0204	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.0829	0.0000	0.0829	0.0204	0.0000	0.0204	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.10 Module Installation - 2045

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	1.4000e-004	7.9000e-004	1.9700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.2728	0.2728	1.0000e-005	0.0000	0.2730
Total	1.4000e-004	7.9000e-004	1.9700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.2728	0.2728	1.0000e-005	0.0000	0.2730

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	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
Worker					3.8000e-004	0.0000	3.8000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					4.2000e-004	0.0000	4.2000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.10 Module Installation - 2045

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	1.4000e-004	7.9000e-004	1.9700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.2728	0.2728	1.0000e-005	0.0000	0.2730
Total	1.4000e-004	7.9000e-004	1.9700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.2728	0.2728	1.0000e-005	0.0000	0.2730

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	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
Worker					3.8000e-004	0.0000	3.8000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					4.2000e-004	0.0000	4.2000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.10 Module Installation - 2046

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	0.0328	0.1886	0.4726	7.6000e-004		2.0300e-003	2.0300e-003		2.0300e-003	2.0300e-003	0.0000	65.4680	65.4680	2.6500e-003	0.0000	65.5237
Total	0.0328	0.1886	0.4726	7.6000e-004		2.0300e-003	2.0300e-003		2.0300e-003	2.0300e-003	0.0000	65.4680	65.4680	2.6500e-003	0.0000	65.5237

Unmitigated Construction Off-Site

[illegible]

3.10 Module Installation - 2046

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	0.0328	0.1886	0.4726	7.6000e-004		2.0300e-003	2.0300e-003		2.0300e-003	2.0300e-003	0.0000	65.4680	65.4680	2.6500e-003	0.0000	65.5236
Total	0.0328	0.1886	0.4726	7.6000e-004		2.0300e-003	2.0300e-003		2.0300e-003	2.0300e-003	0.0000	65.4680	65.4680	2.6500e-003	0.0000	65.5236

Mitigated Construction Off-Site

[illegible]

3.11 O&M Building - 2046

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	0.0104	0.0183	0.1344	3.4000e-004		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	29.3049	29.3049	8.2000e-004	0.0000	29.3221
Total	0.0104	0.0183	0.1344	3.4000e-004		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	29.3049	29.3049	8.2000e-004	0.0000	29.3221

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	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
Worker					0.0289	0.0000	0.0289	7.0900e-003	0.0000	7.0900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.0289	0.0000	0.0289	7.1000e-003	0.0000	7.1000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.11 O&M Building - 2046**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	0.0104	0.0183	0.1344	3.4000e-004		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	29.3049	29.3049	8.2000e-004	0.0000	29.3220
Total	0.0104	0.0183	0.1344	3.4000e-004		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	29.3049	29.3049	8.2000e-004	0.0000	29.3220

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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	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
Worker					0.0289	0.0000	0.0289	7.0900e-003	0.0000	7.0900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					0.0289	0.0000	0.0289	7.1000e-003	0.0000	7.1000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	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	0.0000
Unmitigated	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	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
User Defined Industrial	6.70	5.00	8.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.463880	0.071076	0.166461	0.158365	0.044517	0.005545	0.010587	0.072429	0.001764	0.000163	0.002545	0.000601	0.002067

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

[illegible]

5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

5.2 Energy by Land Use - NaturalGas

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	tons/yr										MT/yr					
User Defined Industrial	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	0.0000
Total		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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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	2.3300e-003	2.3000e-004	0.0255	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0499	0.0499	1.3000e-004	0.0000	0.0526
Unmitigated	2.3300e-003	2.3000e-004	0.0255	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0499	0.0499	1.3000e-004	0.0000	0.0526

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					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.3300e-003	2.3000e-004	0.0255	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0499	0.0499	1.3000e-004	0.0000	0.0526
Total	2.3300e-003	2.3000e-004	0.0255	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0499	0.0499	1.3000e-004	0.0000	0.0526

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					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.3300e-003	2.3000e-004	0.0255	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0499	0.0499	1.3000e-004	0.0000	0.0526
Total	2.3300e-003	2.3000e-004	0.0255	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0499	0.0499	1.3000e-004	0.0000	0.0526

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/ Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Mitigated

	Indoor/ Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

Wistaria Ranch Solar Energy Center CUP Decommissioning Imperial County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	223.68	User Defined Unit	223.68	0.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.4	Precipitation Freq (Days)	12
Climate Zone	15			Operational Year	2035
Utility Company	Imperial Irrigation District				
CO2 Intensity (lb/MWhr)	1270.9	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Estimated acreage based on most recent project description for CUP 13-0037

Construction Phase - Estimated construction schedule provided by project applicant

Off-road Equipment - Estimated construction equipment per project applicant.

Off-road Equipment - Estimated construction equipment per project applicant.

Off-road Equipment - Estimated construction equipment per project applicant.

Off-road Equipment - Estimated construction equipment per project applicant.

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Off-road Equipment - Estimated construction equipment per project applicant.

Off-road Equipment - Estimated construction equipment per project applicant.

Off-road Equipment - Estimated construction equipment per project applicant.

Off-road Equipment - Estimated construction equipment per project applicant.

Trips and VMT - Construction worker and truck trips are based on information provided by the applicant

On-road Fugitive Dust - Assumes travel on paved roads

Grading - Estimated disturbed acreage based on project area and construction schedule

Vehicle Trips - Does not include estimates of operational emissions.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Water And Wastewater -

Construction Off-road Equipment Mitigation - Includes mitigation to Tier 3 engines for all equipment greater than 50 hp.

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	100
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstructionPhase	NumDays	4,650.00	76.00
tblConstructionPhase	NumDays	4,650.00	101.00
tblConstructionPhase	NumDays	4,650.00	58.00
tblConstructionPhase	NumDays	180.00	16.00
tblConstructionPhase	NumDays	180.00	28.00
tblConstructionPhase	PhaseEndDate	3/5/2046	1/5/2046
tblConstructionPhase	PhaseEndDate	1/8/2046	1/5/2046
tblConstructionPhase	PhaseEndDate	2/12/2046	1/18/2046
tblConstructionPhase	PhaseEndDate	3/27/2046	12/18/2045
tblConstructionPhase	PhaseEndDate	5/8/2046	1/24/2046
tblConstructionPhase	PhaseEndDate	2/15/2046	12/11/2045
tblConstructionPhase	PhaseEndDate	2/14/2046	9/4/2045
tblConstructionPhase	PhaseEndDate	5/8/2046	12/11/2045
tblConstructionPhase	PhaseEndDate	4/16/2046	11/27/2045
tblConstructionPhase	PhaseStartDate	12/12/2045	10/15/2045
tblConstructionPhase	PhaseStartDate	7/25/2045	7/24/2045

tblConstructionPhase	PhaseStartDate	9/5/2045	8/11/2045
tblConstructionPhase	PhaseStartDate	12/12/2045	9/4/2045
tblConstructionPhase	PhaseStartDate	12/19/2045	9/6/2045
tblConstructionPhase	PhaseStartDate	11/28/2045	9/21/2045
tblConstructionPhase	PhaseStartDate	1/6/2046	7/27/2045
tblConstructionPhase	PhaseStartDate	1/19/2046	8/24/2045
tblConstructionPhase	PhaseStartDate	1/25/2046	9/7/2045
tblGrading	AcresOfGrading	28.00	223.68
tblLandUse	LotAcreage	0.00	223.68
tblOffRoadEquipment	HorsePower	226.00	200.00
tblOffRoadEquipment	HorsePower	226.00	200.00
tblOffRoadEquipment	HorsePower	226.00	500.00
tblOffRoadEquipment	HorsePower	226.00	220.00
tblOffRoadEquipment	HorsePower	84.00	5.00
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tblOffRoadEquipment	HorsePower	62.00	110.00
tblOffRoadEquipment	HorsePower	78.00	75.00
tblOffRoadEquipment	HorsePower	205.00	45.00
tblOffRoadEquipment	HorsePower	162.00	45.00
tblOffRoadEquipment	HorsePower	174.00	200.00
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tblOffRoadEquipment	HorsePower	400.00	300.00
tblOffRoadEquipment	HorsePower	400.00	300.00

[illegible]

[illegible]

tblTripsAndVMT	HaulingTripLength	20.00	40.00
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tblTripsAndVMT	WorkerTripLength	10.20	40.00
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tblTripsAndVMT	WorkerTripLength	10.20	40.00
tblTripsAndVMT	WorkerTripLength	10.20	40.00
tblTripsAndVMT	WorkerTripLength	10.20	40.00
tblTripsAndVMT	WorkerTripLength	10.20	40.00
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tblTripsAndVMT	WorkerTripNumber	8.00	5.00
tblTripsAndVMT	WorkerTripNumber	0.00	5.00
tblVehicleTrips	CC_TL	9.50	5.00
tblVehicleTrips	CNW_TL	11.90	8.90
tblVehicleTrips	CW_TL	16.40	6.70

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					
2045	0.0988	0.2972	0.9868	2.6700e-003	0.1625	6.9600e-003	0.1695	0.0236	6.9600e-003	0.0306	0.0000	238.3901	238.3901	7.8600e-003	0.0000	238.5552
2046	4.9800e-003	0.0109	0.0470	1.5000e-004	2.8100e-003	3.3000e-004	3.1400e-003	6.9000e-004	3.3000e-004	1.0200e-003	0.0000	13.3439	13.3439	3.9000e-004	0.0000	13.3522
Total	0.1038	0.3081	1.0338	2.8200e-003	0.1653	7.2900e-003	0.1726	0.0243	7.2900e-003	0.0316	0.0000	251.7341	251.7341	8.2500e-003	0.0000	251.9074

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					
2045	0.0988	0.2972	0.9868	2.6700e-003	0.0893	6.9600e-003	0.0963	0.0157	6.9600e-003	0.0226	0.0000	238.3898	238.3898	7.8600e-003	0.0000	238.5550
2046	4.9800e-003	0.0109	0.0470	1.5000e-004	2.8100e-003	3.3000e-004	3.1400e-003	6.9000e-004	3.3000e-004	1.0200e-003	0.0000	13.3439	13.3439	3.9000e-004	0.0000	13.3522
Total	0.1038	0.3081	1.0338	2.8200e-003	0.0921	7.2900e-003	0.0994	0.0164	7.2900e-003	0.0237	0.0000	251.7337	251.7337	8.2500e-003	0.0000	251.9071

	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	44.30	0.00	42.42	32.58	0.00	25.06	0.00	0.00	0.00	0.00	0.00	0.00

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	1.9000e-004	2.0000e-005	2.0400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0000e-003	4.0000e-003	1.0000e-005	0.0000	4.2100e-003
Energy	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
Mobile	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	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.9000e-004	2.0000e-005	2.0400e-003	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	1.0000e-005	1.0000e-005	0.0000	4.0000e-003	4.0000e-003	1.0000e-005	0.0000	4.2100e-003

2.2 Overall Operational

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	1.9000e-004	2.0000e-005	2.0400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0000e-003	4.0000e-003	1.0000e-005	0.0000	4.2100e-003
Energy	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
Mobile	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	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.9000e-004	2.0000e-005	2.0400e-003	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	1.0000e-005	1.0000e-005	0.0000	4.0000e-003	4.0000e-003	1.0000e-005	0.0000	4.2100e-003

	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	Mobilization	Site Preparation	7/1/2045	7/24/2045	5	16	
2	Miscellaneous	Building Construction	7/24/2045	1/5/2046	5	120	
3	Site Preparation	Site Preparation	7/27/2045	9/4/2045	5	28	
4	Substation	Building Construction	8/11/2045	1/18/2046	5	115	
5	Post Installation	Trenching	8/24/2045	12/11/2045	5	78	
6	O&M Building	Building Construction	9/4/2045	12/18/2045	5	76	
7	Transmission Line	Building Construction	9/6/2045	1/24/2046	5	101	
8	Below Grade Electrical	Trenching	9/7/2045	11/27/2045	5	58	
9	Above Grade Electrical	Building Construction	9/21/2045	12/11/2045	5	58	
10	Module Installation	Building Construction	10/15/2045	1/5/2046	5	60	

Acres of Grading (Site Preparation Phase): 223.68

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Mobilization	Off-Highway Trucks	2	2.00	350	0.38
Miscellaneous	Air Compressors	1	2.00	75	0.48
Miscellaneous	Generator Sets	2	8.00	5	0.74
Miscellaneous	Off-Highway Trucks	1	1.00	180	0.38
Miscellaneous	Off-Highway Trucks	1	2.00	350	0.38
Miscellaneous	Plate Compactors	1	1.00	15	0.43
Site Preparation	Graders	1	8.00	200	0.41
Site Preparation	Off-Highway Tractors	1	8.00	250	0.44

Site Preparation	Off-Highway Trucks	1	8.00	300	0.38
Site Preparation	Off-Highway Trucks	1	4.00	300	0.38
Site Preparation	Plate Compactors	1	3.00	100	0.43
Site Preparation	Rough Terrain Forklifts	1	2.00	75	0.40
Site Preparation	Scrapers	1	4.00	300	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	150	0.37
Substation	Cranes	1	5.00	200	0.29
Substation	Tractors/Loaders/Backhoes	1	7.00	150	0.37
Post Installation	Bore/Drill Rigs	1	8.00	45	0.50
Post Installation	Rough Terrain Forklifts	1	7.00	75	0.40
O&M Building	Cranes	1	5.00	200	0.29
O&M Building	Tractors/Loaders/Backhoes	1	7.00	150	0.37
Transmission Line	Aerial Lifts	1	2.00	110	0.31
Transmission Line	Cranes	1	2.00	500	0.29
Transmission Line	Cranes	1	2.00	220	0.29
Transmission Line	Off-Highway Trucks	1	2.00	210	0.38
Below Grade Electrical	Excavators	1	7.00	45	0.38
Below Grade Electrical	Tractors/Loaders/Backhoes	1	7.00	150	0.37
Below Grade Electrical	Trenchers	1	4.00	100	0.50
Above Grade Electrical	Rough Terrain Forklifts	1	2.00	75	0.40
Module Installation	Rough Terrain Forklifts	1	2.00	75	0.40

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
Mobilization	2	5.00	0.00	1.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Miscellaneous	6	5.00	0.00	1.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	8	5.00	0.00	1.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Substation	2	5.00	0.00	1.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Post Installation	2	5.00	0.00	1.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
O&M Building	2	5.00	0.00	1.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Transmission Line	4	5.00	0.00	1.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Below Grade Electrical	3	5.00	0.00	1.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Above Grade Electrical	1	5.00	0.00	1.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT
Module Installation	1	5.00	0.00	1.00	40.00	8.90	40.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Mobilization - 2045

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9100e-003	2.8600e-003	0.0104	5.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	4.8374	4.8374	1.5000e-004	0.0000	4.8406
Total	1.9100e-003	2.8600e-003	0.0104	5.0000e-005	0.0000	1.1000e-004	1.1000e-004	0.0000	1.1000e-004	1.1000e-004	0.0000	4.8374	4.8374	1.5000e-004	0.0000	4.8406

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					1.0000e-005	0.0000	1.0000e-005	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
Worker					1.0500e-003	0.0000	1.0500e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					1.0600e-003	0.0000	1.0600e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.2 Mobilization - 2045

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9100e-003	2.8600e-003	0.0104	5.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	4.8374	4.8374	1.5000e-004	0.0000	4.8406
Total	1.9100e-003	2.8600e-003	0.0104	5.0000e-005	0.0000	1.1000e-004	1.1000e-004	0.0000	1.1000e-004	1.1000e-004	0.0000	4.8374	4.8374	1.5000e-004	0.0000	4.8406

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					1.0000e-005	0.0000	1.0000e-005	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
Worker					1.0500e-003	0.0000	1.0500e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					1.0600e-003	0.0000	1.0600e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.3 Miscellaneous - 2045

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	0.0113	0.0297	0.0833	2.8000e-004		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	26.9816	26.9816	9.0000e-004	0.0000	27.0005
Total	0.0113	0.0297	0.0833	2.8000e-004		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	26.9816	26.9816	9.0000e-004	0.0000	27.0005

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					1.0000e-005	0.0000	1.0000e-005	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
Worker					7.5400e-003	0.0000	7.5400e-003	1.8500e-003	0.0000	1.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					7.5500e-003	0.0000	7.5500e-003	1.8500e-003	0.0000	1.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.3 Miscellaneous - 2045

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	0.0113	0.0297	0.0833	2.8000e-004		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	26.9815	26.9815	9.0000e-004	0.0000	27.0005
Total	0.0113	0.0297	0.0833	2.8000e-004		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	26.9815	26.9815	9.0000e-004	0.0000	27.0005

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					1.0000e-005	0.0000	1.0000e-005	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
Worker					7.5400e-003	0.0000	7.5400e-003	1.8500e-003	0.0000	1.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					7.5500e-003	0.0000	7.5500e-003	1.8500e-003	0.0000	1.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.3 Miscellaneous - 2046

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	4.9000e-004	1.2900e-003	3.6200e-003	1.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.1731	1.1731	4.0000e-005	0.0000	1.1739
Total	4.9000e-004	1.2900e-003	3.6200e-003	1.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.1731	1.1731	4.0000e-005	0.0000	1.1739

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					1.0000e-005	0.0000	1.0000e-005	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
Worker					3.3000e-004	0.0000	3.3000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					3.4000e-004	0.0000	3.4000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.4 Site Preparation - 2045

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					0.1186	0.0000	0.1186	0.0128	0.0000	0.0128	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0255	0.0558	0.1735	6.8000e-004		2.0300e-003	2.0300e-003		2.0300e-003	2.0300e-003	0.0000	63.3949	63.3949	2.0300e-003	0.0000	63.4376
Total	0.0255	0.0558	0.1735	6.8000e-004	0.1186	2.0300e-003	0.1206	0.0128	2.0300e-003	0.0148	0.0000	63.3949	63.3949	2.0300e-003	0.0000	63.4376

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					1.0000e-005	0.0000	1.0000e-005	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
Worker					1.8400e-003	0.0000	1.8400e-003	4.5000e-004	0.0000	4.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					1.8500e-003	0.0000	1.8500e-003	4.5000e-004	0.0000	4.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.4 Site Preparation - 2045

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					0.0454	0.0000	0.0454	4.9000e-003	0.0000	4.9000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0255	0.0558	0.1735	6.8000e-004		2.0300e-003	2.0300e-003		2.0300e-003	2.0300e-003	0.0000	63.3948	63.3948	2.0300e-003	0.0000	63.4375
Total	0.0255	0.0558	0.1735	6.8000e-004	0.0454	2.0300e-003	0.0474	4.9000e-003	2.0300e-003	6.9300e-003	0.0000	63.3948	63.3948	2.0300e-003	0.0000	63.4375

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					1.0000e-005	0.0000	1.0000e-005	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
Worker					1.8400e-003	0.0000	1.8400e-003	4.5000e-004	0.0000	4.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					1.8500e-003	0.0000	1.8500e-003	4.5000e-004	0.0000	4.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.5 Substation - 2045

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	0.0139	0.0243	0.1786	4.5000e-004		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	38.9447	38.9447	1.0900e-003	0.0000	38.9675
Total	0.0139	0.0243	0.1786	4.5000e-004		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	38.9447	38.9447	1.0900e-003	0.0000	38.9675

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					1.0000e-005	0.0000	1.0000e-005	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
Worker					6.6200e-003	0.0000	6.6200e-003	1.6300e-003	0.0000	1.6300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					6.6300e-003	0.0000	6.6300e-003	1.6300e-003	0.0000	1.6300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.5 Substation - 2045

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	0.0139	0.0243	0.1786	4.5000e-004		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	38.9446	38.9446	1.0900e-003	0.0000	38.9675
Total	0.0139	0.0243	0.1786	4.5000e-004		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	38.9446	38.9446	1.0900e-003	0.0000	38.9675

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					1.0000e-005	0.0000	1.0000e-005	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
Worker					6.6200e-003	0.0000	6.6200e-003	1.6300e-003	0.0000	1.6300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					6.6300e-003	0.0000	6.6300e-003	1.6300e-003	0.0000	1.6300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.5 Substation - 2046

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	1.9200e-003	3.3700e-003	0.0248	6.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	5.3983	5.3983	1.5000e-004	0.0000	5.4014
Total	1.9200e-003	3.3700e-003	0.0248	6.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	5.3983	5.3983	1.5000e-004	0.0000	5.4014

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					1.0000e-005	0.0000	1.0000e-005	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
Worker					9.2000e-004	0.0000	9.2000e-004	2.3000e-004	0.0000	2.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					9.3000e-004	0.0000	9.3000e-004	2.3000e-004	0.0000	2.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.5 Substation - 2046

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	1.9200e-003	3.3700e-003	0.0248	6.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	5.3983	5.3983	1.5000e-004	0.0000	5.4014
Total	1.9200e-003	3.3700e-003	0.0248	6.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	5.3983	5.3983	1.5000e-004	0.0000	5.4014

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					1.0000e-005	0.0000	1.0000e-005	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
Worker					9.2000e-004	0.0000	9.2000e-004	2.3000e-004	0.0000	2.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					9.3000e-004	0.0000	9.3000e-004	2.3000e-004	0.0000	2.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.6 Post Installation - 2045

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	0.0100	0.0735	0.1296	2.2000e-004		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	17.2877	17.2877	8.1000e-004	0.0000	17.3047
Total	0.0100	0.0735	0.1296	2.2000e-004		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	17.2877	17.2877	8.1000e-004	0.0000	17.3047

Unmitigated Construction Off-Site

[illegible]

3.6 Post Installation - 2045

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	0.0100	0.0735	0.1296	2.2000e-004		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	17.2877	17.2877	8.1000e-004	0.0000	17.3047
Total	0.0100	0.0735	0.1296	2.2000e-004		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	17.2877	17.2877	8.1000e-004	0.0000	17.3047

Mitigated Construction Off-Site

[illegible]

3.7 O&M Building - 2045

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	0.0104	0.0183	0.1344	3.4000e-004		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	29.3049	29.3049	8.2000e-004	0.0000	29.3221
Total	0.0104	0.0183	0.1344	3.4000e-004		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	29.3049	29.3049	8.2000e-004	0.0000	29.3221

Unmitigated Construction Off-Site

[illegible]

3.7 O&M Building - 2045

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	0.0104	0.0183	0.1344	3.4000e-004		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	29.3049	29.3049	8.2000e-004	0.0000	29.3220
Total	0.0104	0.0183	0.1344	3.4000e-004		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	29.3049	29.3049	8.2000e-004	0.0000	29.3220

Mitigated Construction Off-Site

[illegible]

3.8 Transmission Line - 2045

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	0.0114	0.0263	0.0801	3.3000e-004		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	30.4428	30.4428	9.1000e-004	0.0000	30.4618
Total	0.0114	0.0263	0.0801	3.3000e-004		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	30.4428	30.4428	9.1000e-004	0.0000	30.4618

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					1.0000e-005	0.0000	1.0000e-005	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
Worker					5.4400e-003	0.0000	5.4400e-003	1.3400e-003	0.0000	1.3400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					5.4500e-003	0.0000	5.4500e-003	1.3400e-003	0.0000	1.3400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.8 Transmission Line - 2045

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	0.0114	0.0263	0.0801	3.3000e-004		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	30.4427	30.4427	9.1000e-004	0.0000	30.4618
Total	0.0114	0.0263	0.0801	3.3000e-004		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	30.4427	30.4427	9.1000e-004	0.0000	30.4618

Mitigated Construction Off-Site

[illegible]

3.8 Transmission Line - 2046

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	2.4800e-003	5.7000e-003	0.0174	7.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	6.6021	6.6021	2.0000e-004	0.0000	6.6062
Total	2.4800e-003	5.7000e-003	0.0174	7.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	6.6021	6.6021	2.0000e-004	0.0000	6.6062

Unmitigated Construction Off-Site

[illegible]

3.8 Transmission Line - 2046

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	2.4800e-003	5.7000e-003	0.0174	7.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	6.6020	6.6020	2.0000e-004	0.0000	6.6062
Total	2.4800e-003	5.7000e-003	0.0174	7.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	6.6020	6.6020	2.0000e-004	0.0000	6.6062

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					1.0000e-005	0.0000	1.0000e-005	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
Worker					1.1800e-003	0.0000	1.1800e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					1.1900e-003	0.0000	1.1900e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.9 Below Grade Electrical - 2045

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	0.0124	0.0554	0.1691	2.8000e-004		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003	0.0000	23.3432	23.3432	9.9000e-004	0.0000	23.3641
Total	0.0124	0.0554	0.1691	2.8000e-004		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003	0.0000	23.3432	23.3432	9.9000e-004	0.0000	23.3641

Unmitigated Construction Off-Site

[illegible]

3.9 Below Grade Electrical - 2045

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	0.0124	0.0554	0.1691	2.8000e-004		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003	0.0000	23.3432	23.3432	9.9000e-004	0.0000	23.3641
Total	0.0124	0.0554	0.1691	2.8000e-004		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003	0.0000	23.3432	23.3432	9.9000e-004	0.0000	23.3641

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					1.0000e-005	0.0000	1.0000e-005	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
Worker					3.8000e-003	0.0000	3.8000e-003	9.3000e-004	0.0000	9.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					3.8100e-003	0.0000	3.8100e-003	9.3000e-004	0.0000	9.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.10 Above Grade Electrical - 2045

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	9.9000e-004	5.7000e-003	0.0143	2.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	1.9777	1.9777	8.0000e-005	0.0000	1.9794
Total	9.9000e-004	5.7000e-003	0.0143	2.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	1.9777	1.9777	8.0000e-005	0.0000	1.9794

Unmitigated Construction Off-Site

[illegible]

3.10 Above Grade Electrical - 2045

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	9.9000e-004	5.7000e-003	0.0143	2.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	1.9777	1.9777	8.0000e-005	0.0000	1.9794
Total	9.9000e-004	5.7000e-003	0.0143	2.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	1.9777	1.9777	8.0000e-005	0.0000	1.9794

Mitigated Construction Off-Site

[illegible]

3.11 Module Installation - 2045

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	9.4000e-004	5.4000e-003	0.0135	2.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	1.8754	1.8754	8.0000e-005	0.0000	1.8770
Total	9.4000e-004	5.4000e-003	0.0135	2.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	1.8754	1.8754	8.0000e-005	0.0000	1.8770

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					1.0000e-005	0.0000	1.0000e-005	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
Worker					3.6100e-003	0.0000	3.6100e-003	8.9000e-004	0.0000	8.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					3.6200e-003	0.0000	3.6200e-003	8.9000e-004	0.0000	8.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.11 Module Installation - 2045

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	9.4000e-004	5.4000e-003	0.0135	2.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	1.8754	1.8754	8.0000e-005	0.0000	1.8770
Total	9.4000e-004	5.4000e-003	0.0135	2.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	1.8754	1.8754	8.0000e-005	0.0000	1.8770

Mitigated Construction Off-Site

[illegible]

3.11 Module Installation - 2046

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	9.0000e-005	4.9000e-004	1.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1705	0.1705	1.0000e-005	0.0000	0.1706
Total	9.0000e-005	4.9000e-004	1.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1705	0.1705	1.0000e-005	0.0000	0.1706

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					1.0000e-005	0.0000	1.0000e-005	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
Worker					3.3000e-004	0.0000	3.3000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					3.4000e-004	0.0000	3.4000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.11 Module Installation - 2046**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	9.0000e-005	4.9000e-004	1.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1705	0.1705	1.0000e-005	0.0000	0.1706
Total	9.0000e-005	4.9000e-004	1.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1705	0.1705	1.0000e-005	0.0000	0.1706

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					1.0000e-005	0.0000	1.0000e-005	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
Worker					3.3000e-004	0.0000	3.3000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					3.4000e-004	0.0000	3.4000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	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	0.0000
Unmitigated	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	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
User Defined Industrial	6.70	5.00	8.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.463880	0.071076	0.166461	0.158365	0.044517	0.005545	0.010587	0.072429	0.001764	0.000163	0.002545	0.000601	0.002067

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

[illegible]

5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

5.2 Energy by Land Use - NaturalGas

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	tons/yr										MT/yr					
User Defined Industrial	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	0.0000
Total		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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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	1.9000e-004	2.0000e-005	2.0400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0000e-003	4.0000e-003	1.0000e-005	0.0000	4.2100e-003
Unmitigated	1.9000e-004	2.0000e-005	2.0400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0000e-003	4.0000e-003	1.0000e-005	0.0000	4.2100e-003

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					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.9000e-004	2.0000e-005	2.0400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0000e-003	4.0000e-003	1.0000e-005	0.0000	4.2100e-003
Total	1.9000e-004	2.0000e-005	2.0400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0000e-003	4.0000e-003	1.0000e-005	0.0000	4.2100e-003

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					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.9000e-004	2.0000e-005	2.0400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0000e-003	4.0000e-003	1.0000e-005	0.0000	4.2100e-003
Total	1.9000e-004	2.0000e-005	2.0400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0000e-003	4.0000e-003	1.0000e-005	0.0000	4.2100e-003

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/ Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Mitigated

	Indoor/ Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

Appendix B

Cancer Risk and SCREEN3 Model Outputs