

APPENDIX D

NOISE DATA

APPENDIX D1: Noise Modeling Data

APPENDIX D2: Helistop Noise Assessment

APPENDIX D1

Noise Modeling Data

TABLE Existing-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: MLK Jr. Way - 56th Street to 55th Street
NOTES: CHRCO - Existing

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC:	30300	SPEED (MPH):	30
		GRADE:	.5
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT):	36	SITE CHARACTERISTICS:	SOFT

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.17			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	87.9	176.5	373.8

TABLE Existing-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: MLK Jr. Way - 55th Street to 54th Street
NOTES: CHRCO - Existing

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC:	33700	SPEED (MPH):	30
		GRADE:	.5
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT):	36	SITE CHARACTERISTICS:	SOFT

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.64			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	93.3	188.9	401.1

TABLE Existing-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: MLK Jr. Way - 54th Street to 53rd Street
NOTES: CHRCO - Existing

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 34800	SPEED (MPH): 30	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 36	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.78			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	95.0	192.8	409.7

TABLE Existing-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: MLK Jr. Way - 53rd Street to 52nd Street
NOTES: CHRCO - Existing

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 35600	SPEED (MPH): 30	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 36	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.87			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	96.3	195.7	415.9

TABLE Existing-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: MLK Jr. Way - 52nd Street to SR-24 Ramps
NOTES: CHRCO - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 36700 SPEED (MPH): 30 GRADE: .5

	TRAFFIC DISTRIBUTION DAY	PERCENTAGES EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 36 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.01

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	98.0	199.6	424.3

TABLE Existing-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 53rd Street - Genoa Street to MLK Jr Way
NOTES: CHRCO - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 800 SPEED (MPH): 25 GRADE: .5

	TRAFFIC DISTRIBUTION DAY	PERCENTAGES EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 49.76

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	0.0

TABLE Existing-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 53rd Street - MLK Jr Way to Dover Street
NOTES: CHRCO - Existing

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 600	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 6	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *				
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 48.51				
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL				
70 CNEL	65 CNEL	60 CNEL	55 CNEL	
---	-----	-----	-----	
0.0	0.0	0.0	0.0	

TABLE Existing-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 52nd Street - Genoa Street to West Street
NOTES: CHRCO - Existing

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 2600	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 6	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *				
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 54.88				
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL				
70 CNEL	65 CNEL	60 CNEL	55 CNEL	
---	-----	-----	-----	
0.0	0.0	0.0	54.9	

TABLE Existing-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 52nd Street - West Street to MLK Jr. Way
NOTES: CHRCO - Existing

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 4400	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 12	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 56.58			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
---	-----	-----	-----
0.0	0.0	0.0	78.4

TABLE Existing-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 52nd Street - MLK Jr. Way to Garage Entrance
NOTES: CHRCO - Existing

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 7700	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 18	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 58.52			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
---	-----	-----	-----
0.0	0.0	55.2	113.9

TABLE Existing-11
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 52nd Street - Garage Entrance to Dover Street
NOTES: CHRCO - Existing

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 7600	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 6	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.53			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	52.2	111.8

TABLE Existing-12
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 52nd Street - SR-24 Ramps to Shattuck Avenue
NOTES: CHRCO - Existing

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 27100	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 36	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.83			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	66.5	125.8	262.2

TABLE Existing-13
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 51st Street - Shattuck Avenue to Telegraph Avenue
NOTES: CHRCO - Existing

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 16400	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 36	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.65			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	93.5	189.3

TABLE Existing-14
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: Telegraph Avenue - 55th Street to 52nd Street
NOTES: CHRCO - Existing

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 21100	SPEED (MPH): 30	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 36	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.60			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	72.6	140.4	294.5

TABLE Existing-15
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: Telegraph Avenue - 52nd Street to 51st Street
NOTES: CHRCO - Existing

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC:	19400	SPEED (MPH):	30
		GRADE:	.5
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT):	36	SITE CHARACTERISTICS:	SOFT

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.24			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	69.6	133.3	278.8

TABLE Existing + Phase 1-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: MLK Jr. Way - 56th Street to 55th Street
NOTES: CHRCO - Existing + Phase 1

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC:	30300	SPEED (MPH):	30
		GRADE:	.5
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT):	36	SITE CHARACTERISTICS:	SOFT

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.17			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	87.9	176.5	373.8

TABLE Existing + Phase 1-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: MLK Jr. Way - 55th Street to 54th Street
NOTES: CHRCO - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 33700 SPEED (MPH): 30 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES	
	DAY	NIGHT
	-----	-----
AUTOS	75.51	9.34
M-TRUCKS	12.57	0.19
H-TRUCKS	0.09	0.08
	0.64	0.02

ACTIVE HALF-WIDTH (FT): 36 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.64

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	93.3	188.9	401.1

TABLE Existing + Phase 1-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: MLK Jr. Way - 54th Street to 53rd Street
NOTES: CHRCO - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 34800 SPEED (MPH): 30 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES	
	DAY	NIGHT
	-----	-----
AUTOS	75.51	9.34
M-TRUCKS	12.57	0.19
H-TRUCKS	0.09	0.08
	0.64	0.02

ACTIVE HALF-WIDTH (FT): 36 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.78

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	95.0	192.8	409.7

TABLE Existing + Phase 1-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: MLK Jr. Way - 53rd Street to 52nd Street
NOTES: CHRCO - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 35900 SPEED (MPH): 30 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES	
	DAY	NIGHT
	-----	-----
AUTOS	75.51	9.34
M-TRUCKS	1.56	0.19
H-TRUCKS	0.64	0.08

ACTIVE HALF-WIDTH (FT): 36 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.91

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	96.7	196.7	418.2

TABLE Existing + Phase 1-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: MLK Jr. Way - 52nd Street to SR-24 Ramps
NOTES: CHRCO - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 36700 SPEED (MPH): 30 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES	
	DAY	NIGHT
	-----	-----
AUTOS	75.51	9.34
M-TRUCKS	1.56	0.19
H-TRUCKS	0.64	0.08

ACTIVE HALF-WIDTH (FT): 36 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.01

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	98.0	199.6	424.3

TABLE Existing + Phase 1-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 53rd Street - Genoa Street to MLK Jr Way
NOTES: CHRCO - Existing + Phase 1

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 800	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 6	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *				
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 49.76				
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL				
70 CNEL	65 CNEL	60 CNEL	55 CNEL	
-----	-----	-----	-----	
0.0	0.0	0.0	0.0	

TABLE Existing + Phase 1-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 53rd Street - MLK Jr Way to Dover Street
NOTES: CHRCO - Existing + Phase 1

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 600	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 6	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *				
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 48.51				
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL				
70 CNEL	65 CNEL	60 CNEL	55 CNEL	
-----	-----	-----	-----	
0.0	0.0	0.0	0.0	

TABLE Existing + Phase 1-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 52nd Street - Genoa Street to West Street
NOTES: CHRCO - Existing + Phase 1

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 2600	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 6	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *				
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 54.88				
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL				
70 CNEL	65 CNEL	60 CNEL	55 CNEL	
-----	-----	-----	-----	
0.0	0.0	0.0	54.9	

TABLE Existing + Phase 1-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 52nd Street - West Street to MLK Jr. Way
NOTES: CHRCO - Existing + Phase 1

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 4400	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 12	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *				
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 56.58				
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL				
70 CNEL	65 CNEL	60 CNEL	55 CNEL	
-----	-----	-----	-----	
0.0	0.0	0.0	78.4	

TABLE Existing + Phase 1-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 52nd Street - MLK Jr. Way to Garage Entrance
NOTES: CHRCO - Existing + Phase 1

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 7700	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 18	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *				
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 58.52				
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL				
70 CNEL	65 CNEL	60 CNEL	55 CNEL	
-----	-----	-----	-----	
0.0	0.0	55.2	113.9	

TABLE Existing + Phase 1-11
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 52nd Street - Garage Entrance to Dover Street
NOTES: CHRCO - Existing + Phase 1

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 7600	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 6	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *				
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.53				
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL				
70 CNEL	65 CNEL	60 CNEL	55 CNEL	
-----	-----	-----	-----	
0.0	0.0	52.2	111.8	

TABLE Existing + Phase 1-12
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 52nd Street - SR-24 Ramps to Shattuck Avenue
NOTES: CHRCO - Existing + Phase 1

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC:	27200	SPEED (MPH):	25
		GRADE:	.5
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT):	36	SITE CHARACTERISTICS:	SOFT

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.85			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	66.7	126.1	262.8

TABLE Existing + Phase 1-13
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 51st Street - Shattuck Avenue to Telegraph Avenue
NOTES: CHRCO - Existing + Phase 1

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC:	16500	SPEED (MPH):	25
		GRADE:	.5
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT):	36	SITE CHARACTERISTICS:	SOFT

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.68			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	93.8	190.0

TABLE Existing + Phase 1-14
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: Telegraph Avenue - 55th Street to 52nd Street
NOTES: CHRCO - Existing + Phase 1

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC:	21100	SPEED (MPH):	30
		GRADE:	.5
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT):	36	SITE CHARACTERISTICS:	SOFT

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.60			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	72.6	140.4	294.5

TABLE Existing + Phase 1-15
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: Telegraph Avenue - 52nd Street to 51st Street
NOTES: CHRCO - Existing + Phase 1

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC:	19400	SPEED (MPH):	30
		GRADE:	.5
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT):	36	SITE CHARACTERISTICS:	SOFT

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.24			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	69.6	133.3	278.8

TABLE Existing + Phase 2-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: MLK Jr. Way - 56th Street to 55th Street
NOTES: CHRCO - Existing + Phase 2

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 30300	SPEED (MPH): 30	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 36	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.17			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	87.9	176.5	373.8

TABLE Existing + Phase 2-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: MLK Jr. Way - 55th Street to 54th Street
NOTES: CHRCO - Existing + Phase 2

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 33900	SPEED (MPH): 30	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 36	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.66			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	93.6	189.6	402.6

TABLE Existing + Phase 2-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: MLK Jr. Way - 54th Street to 53rd Street
NOTES: CHRCO - Existing + Phase 2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 35000 SPEED (MPH): 30 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES	
	DAY	NIGHT
	-----	-----
AUTOS	75.51	9.34
M-TRUCKS	12.57	0.19
H-TRUCKS	0.09	0.08
	0.64	0.02

ACTIVE HALF-WIDTH (FT): 36 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.80

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	95.3	193.6	411.2

TABLE Existing + Phase 2-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: MLK Jr. Way - 53rd Street to 52nd Street
NOTES: CHRCO - Existing + Phase 2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 36000 SPEED (MPH): 30 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES	
	DAY	NIGHT
	-----	-----
AUTOS	75.51	9.34
M-TRUCKS	12.57	0.19
H-TRUCKS	0.09	0.08
	0.64	0.02

ACTIVE HALF-WIDTH (FT): 36 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.92

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	96.9	197.1	419.0

TABLE Existing + Phase 2-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: MLK Jr. Way - 52nd Street to SR-24 Ramps
NOTES: CHRCO - Existing + Phase 2

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC:	37200	SPEED (MPH):	30
		GRADE:	.5
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT):	36	SITE CHARACTERISTICS:	SOFT

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.07			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	98.7	201.3	428.1

TABLE Existing + Phase 2-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 53rd Street - Genoa Street to MLK Jr Way
NOTES: CHRCO - Existing + Phase 2

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC:	800	SPEED (MPH):	25
		GRADE:	.5
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT):	6	SITE CHARACTERISTICS:	SOFT

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 49.76			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	0.0

TABLE Existing + Phase 2-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 53rd Street - MLK Jr Way to Dover Street
NOTES: CHRCO - Existing + Phase 2

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 600	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 6	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *				
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 48.51				
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL				
70 CNEL	65 CNEL	60 CNEL	55 CNEL	
---	-----	-----	-----	
0.0	0.0	0.0	0.0	

TABLE Existing + Phase 2-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 52nd Street - Genoa Street to West Street
NOTES: CHRCO - Existing + Phase 2

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 2700	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 6	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *				
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 55.04				
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL				
70 CNEL	65 CNEL	60 CNEL	55 CNEL	
---	-----	-----	-----	
0.0	0.0	0.0	56.3	

TABLE Existing + Phase 2-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 52nd Street - West Street to MLK Jr. Way
NOTES: CHRCO - Existing + Phase 2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4500 SPEED (MPH): 25 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES	
	DAY	NIGHT
	-----	-----
AUTOS	75.51	9.34
M-TRUCKS	12.57	0.19
H-TRUCKS	0.09	0.08
	0.64	0.02

ACTIVE HALF-WIDTH (FT): 12 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 56.68

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	79.6

TABLE Existing + Phase 2-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 52nd Street - MLK Jr. Way to Garage Entrance
NOTES: CHRCO - Existing + Phase 2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8500 SPEED (MPH): 25 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES	
	DAY	NIGHT
	-----	-----
AUTOS	75.51	9.34
M-TRUCKS	12.57	0.19
H-TRUCKS	0.09	0.08
	0.64	0.02

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 58.95

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	58.6	121.4

TABLE Existing + Phase 2-11
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 52nd Street - Garage Entrance to Dover Street
NOTES: CHRCO - Existing + Phase 2

```

* * ASSUMPTIONS * *
AVERAGE DAILY TRAFFIC: 8600      SPEED (MPH): 25      GRADE: .5

      TRAFFIC DISTRIBUTION PERCENTAGES
      DAY      EVENING      NIGHT
      ---      - - - - -      - - - -
AUTOS
      75.51      12.57      9.34
M-TRUCKS
      1.56      0.09      0.19
H-TRUCKS
      0.64      0.02      0.08

ACTIVE HALF-WIDTH (FT): 6      SITE CHARACTERISTICS: SOFT

```

```

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.07

      DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL
      70 CNEL      65 CNEL      60 CNEL      55 CNEL
      - - - - -      - - - - -      - - - - -      - - - - -
      0.0      0.0      56.6      121.3

```

TABLE Existing + Phase 2-12
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 52nd Street - SR-24 Ramps to Shattuck Avenue
NOTES: CHRCO - Existing + Phase 2

* * ASSUMPTIONS * *				
AVERAGE DAILY TRAFFIC: 27600		SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES				
DAY	EVENING	NIGHT		
---	-----	-----		
AUTOS				
75.51	12.57	9.34		
M-TRUCKS				
1.56	0.09	0.19		
H-TRUCKS				
0.64	0.02	0.08		
ACTIVE HALF-WIDTH (FT): 36		SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *				
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.91				
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL				
70 CNEL	65 CNEL	60 CNEL	55 CNEL	
-----	-----	-----	-----	
0.0	67.1	127.2	265.3	

TABLE Existing + Phase 2-13
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 51st Street - Shattuck Avenue to Telegraph Avenue
NOTES: CHRCO - Existing + Phase 2

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 16800	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 36	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.75			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	94.8	192.2

TABLE Existing + Phase 2-14
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: Telegraph Avenue - 55th Street to 52nd Street
NOTES: CHRCO - Existing + Phase 2

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 21300	SPEED (MPH): 30	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 36	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.64			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	72.9	141.2	296.4

TABLE Existing + Phase 2-15
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: Telegraph Avenue - 52nd Street to 51st Street
NOTES: CHRCO - Existing + Phase 2

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 19600	SPEED (MPH): 30	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 36	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.28			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	70.0	134.1	280.6

TABLE 2035 No Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: MLK Jr. Way - 56th Street to 55th Street
NOTES: CHRCO - 2035 No Project

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 36100	SPEED (MPH): 30	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 36	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.93			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	97.1	197.4	419.7

TABLE 2035 No Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: MLK Jr. Way - 55th Street to 54th Street
NOTES: CHRCO - 2035 No Project

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 37900	SPEED (MPH): 30	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 36	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.15			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	99.8	203.7	433.5

TABLE 2035 No Project-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: MLK Jr. Way - 54th Street to 53rd Street
NOTES: CHRCO - 2035 No Project

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 38900	SPEED (MPH): 30	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 36	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.26			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	101.3	207.2	441.0

TABLE 2035 No Project-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: MLK Jr. Way - 53rd Street to 52nd Street
NOTES: CHRCO - 2035 No Project

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC:	39500	SPEED (MPH):	30
		GRADE:	.5
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT):	36	SITE CHARACTERISTICS:	SOFT

* * CALCULATED NOISE LEVELS * *				
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.33				
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL				
70 CNEL	65 CNEL	60 CNEL	55 CNEL	
-----	-----	-----	-----	
0.0	102.2	209.3	445.5	

TABLE 2035 No Project-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: MLK Jr. Way - 52nd Street to SR-24 Ramps
NOTES: CHRCO - 2035 No Project

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC:	41200	SPEED (MPH):	30
		GRADE:	.5
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT):	36	SITE CHARACTERISTICS:	SOFT

* * CALCULATED NOISE LEVELS * *				
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.51				
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL				
70 CNEL	65 CNEL	60 CNEL	55 CNEL	
-----	-----	-----	-----	
0.0	104.8	215.1	458.1	

TABLE 2035 No Project-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 53rd Street - Genoa Street to MLK Jr Way
NOTES: CHRCO - 2035 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1100 SPEED (MPH): 25 GRADE: .5

	TRAFFIC DISTRIBUTION DAY	PERCENTAGES EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 51.14

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	0.0

TABLE 2035 No Project-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 53rd Street - MLK Jr Way to Dover Street
NOTES: CHRCO - 2035 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 900 SPEED (MPH): 25 GRADE: .5

	TRAFFIC DISTRIBUTION DAY	PERCENTAGES EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 50.27

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	0.0

TABLE 2035 No Project-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 52nd Street - Genoa Street to West Street
NOTES: CHRCO - 2035 No Project

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 3700	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 6	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *				
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 56.41				
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL				
70 CNEL	65 CNEL	60 CNEL	55 CNEL	
-----	-----	-----	-----	
0.0	0.0	0.0	69.3	

TABLE 2035 No Project-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 52nd Street - West Street to MLK Jr. Way
NOTES: CHRCO - 2035 No Project

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 5500	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 12	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *				
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 57.55				
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL				
70 CNEL	65 CNEL	60 CNEL	55 CNEL	
-----	-----	-----	-----	
0.0	0.0	0.0	90.7	

TABLE 2035 No Project-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 52nd Street - MLK Jr. Way to Garage Entrance
NOTES: CHRCO - 2035 No Project

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 8300	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 18	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 58.84			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
---	-----	-----	-----
0.0	0.0	57.8	119.6

TABLE 2035 No Project-11
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 52nd Street - Garage Entrance to Dover Street
NOTES: CHRCO - 2035 No Project

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 8500	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 6	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.02			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
---	-----	-----	-----
0.0	0.0	56.2	120.4

TABLE 2035 No Project-12
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 52nd Street - SR-24 Ramps to Shattuck Avenue
NOTES: CHRCO - 2035 No Project

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 30800	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 36	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.39			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	70.8	136.1	285.1

TABLE 2035 No Project-13
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 51st Street - Shattuck Avenue to Telegraph Avenue
NOTES: CHRCO - 2035 No Project

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 20000	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 36	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.51			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	104.8	215.1

TABLE 2035 No Project-14
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: Telegraph Avenue - 55th Street to 52nd Street
NOTES: CHRCO - 2035 No Project

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 27900	SPEED (MPH): 30	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 36	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.82			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	84.0	167.4	354.0

TABLE 2035 No Project-15
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: Telegraph Avenue - 52nd Street to 51st Street
NOTES: CHRCO - 2035 No Project

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 26500	SPEED (MPH): 30	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 36	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.59			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	81.7	162.0	342.2

TABLE 2035 + Phase 1-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: MLK Jr. Way - 56th Street to 55th Street
NOTES: CHRCO - 2035 + Phase 1

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC:	36200	SPEED (MPH):	30
		GRADE:	.5
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08
ACTIVE HALF-WIDTH (FT):	36	SITE CHARACTERISTICS:	SOFT

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.95			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
---	-----	-----	-----
0.0	97.2	197.8	420.5

TABLE 2035 + Phase 1-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: MLK Jr. Way - 55th Street to 54th Street
NOTES: CHRCO - 2035 + Phase 1

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC:	38000	SPEED (MPH):	30
		GRADE:	.5
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08
ACTIVE HALF-WIDTH (FT):	36	SITE CHARACTERISTICS:	SOFT

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.16			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
---	-----	-----	-----
0.0	100.0	204.1	434.2

TABLE 2035 + Phase 1-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: MLK Jr. Way - 54th Street to 53rd Street
NOTES: CHRCO - 2035 + Phase 1

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 39000	SPEED (MPH): 30	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 36	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.27			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	101.5	207.5	441.8

TABLE 2035 + Phase 1-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: MLK Jr. Way - 53rd Street to 52nd Street
NOTES: CHRCO - 2035 + Phase 1

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 39800	SPEED (MPH): 30	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 36	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.36			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	102.7	210.3	447.7

TABLE 2035 + Phase 1-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: MLK Jr. Way - 52nd Street to SR-24 Ramps
NOTES: CHRCO - 2035 + Phase 1

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 41300	SPEED (MPH): 30	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 36	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.52			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	105.0	215.4	458.8

TABLE 2035 + Phase 1-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 53rd Street - Genoa Street to MLK Jr Way
NOTES: CHRCO - 2035 + Phase 1

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 1100	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 6	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 51.14			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	0.0

TABLE 2035 + Phase 1-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 53rd Street - MLK Jr Way to Dover Street
NOTES: CHRCO - 2035 + Phase 1

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 900	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 6	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *				
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 50.27				
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL				
70 CNEL	65 CNEL	60 CNEL	55 CNEL	
---	-----	-----	-----	
0.0	0.0	0.0	0.0	

TABLE 2035 + Phase 1-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 52nd Street - Genoa Street to West Street
NOTES: CHRCO - 2035 + Phase 1

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 3800	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 6	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *				
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 56.52				
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL				
70 CNEL	65 CNEL	60 CNEL	55 CNEL	
---	-----	-----	-----	
0.0	0.0	0.0	70.6	

TABLE 2035 + Phase 1-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 52nd Street - West Street to MLK Jr. Way
NOTES: CHRCO - 2035 + Phase 1

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 5600	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 12	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *				
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 57.63				
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL				
70 CNEL	65 CNEL	60 CNEL	55 CNEL	
-----	-----	-----	-----	
0.0	0.0	0.0	91.8	

TABLE 2035 + Phase 1-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 52nd Street - MLK Jr. Way to Garage Entrance
NOTES: CHRCO - 2035 + Phase 1

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 8300	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 18	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *				
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 58.84				
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL				
70 CNEL	65 CNEL	60 CNEL	55 CNEL	
-----	-----	-----	-----	
0.0	0.0	57.8	119.6	

TABLE 2035 + Phase 1-11
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 52nd Street - Garage Entrance to Dover Street
NOTES: CHRCO - 2035 + Phase 1

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 8500	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 6	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.02			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	56.2	120.4

TABLE 2035 + Phase 1-12
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 52nd Street - SR-24 Ramps to Shattuck Avenue
NOTES: CHRCO - 2035 + Phase 1

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 30900	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 36	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.40			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	70.9	136.4	285.7

TABLE 2035 + Phase 1-13
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 51st Street - Shattuck Avenue to Telegraph Avenue
NOTES: CHRCO - 2035 + Phase 1

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 20100	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 36	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.53			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	105.2	215.8

TABLE 2035 + Phase 1-14
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: Telegraph Avenue - 55th Street to 52nd Street
NOTES: CHRCO - 2035 + Phase 1

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 28000	SPEED (MPH): 30	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 36	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.83			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	84.2	167.8	354.9

TABLE 2035 + Phase 1-15
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: Telegraph Avenue - 52nd Street to 51st Street
NOTES: CHRCO - 2035 + Phase 1

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 26600	SPEED (MPH): 30	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 36	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.61			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	81.9	162.4	343.0

TABLE 2035 + Phase 2-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: MLK Jr. Way - 56th Street to 55th Street
NOTES: CHRCO - 2035 + Phase 2

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 36300	SPEED (MPH): 30	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 36	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.96			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	97.4	198.2	421.3

TABLE 2035 + Phase 2-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: MLK Jr. Way - 55th Street to 54th Street
NOTES: CHRCO - 2035 + Phase 2

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC:	38100	SPEED (MPH):	30
		GRADE:	.5
TRAFFIC DISTRIBUTION PERCENTAGES			
	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08
ACTIVE HALF-WIDTH (FT):	36	SITE CHARACTERISTICS: SOFT	

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.17			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	100.1	204.4	435.0

TABLE 2035 + Phase 2-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: MLK Jr. Way - 54th Street to 53rd Street
NOTES: CHRCO - 2035 + Phase 2

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC:	39100	SPEED (MPH):	30
		GRADE:	.5
TRAFFIC DISTRIBUTION PERCENTAGES			
	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08
ACTIVE HALF-WIDTH (FT):	36	SITE CHARACTERISTICS: SOFT	

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.28			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	101.6	207.9	442.5

TABLE 2035 + Phase 2-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: MLK Jr. Way - 53rd Street to 52nd Street
NOTES: CHRCO - 2035 + Phase 2

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC:	39900	SPEED (MPH):	30
		GRADE:	.5
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT):	36	SITE CHARACTERISTICS:	SOFT

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.37			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	102.9	210.6	448.5

TABLE 2035 + Phase 2-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: MLK Jr. Way - 52nd Street to SR-24 Ramps
NOTES: CHRCO - 2035 + Phase 2

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC:	41800	SPEED (MPH):	30
		GRADE:	.5
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT):	36	SITE CHARACTERISTICS:	SOFT

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.57			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	105.7	217.1	462.5

TABLE 2035 + Phase 2-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 53rd Street - Genoa Street to MLK Jr Way
NOTES: CHRCO - 2035 + Phase 2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1100 SPEED (MPH): 25 GRADE: .5

	TRAFFIC DISTRIBUTION DAY	PERCENTAGES EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 51.14

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	0.0

TABLE 2035 + Phase 2-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 53rd Street - MLK Jr Way to Dover Street
NOTES: CHRCO - 2035 + Phase 2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 900 SPEED (MPH): 25 GRADE: .5

	TRAFFIC DISTRIBUTION DAY	PERCENTAGES EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 50.27

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	0.0

TABLE 2035 + Phase 2-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 52nd Street - Genoa Street to West Street
NOTES: CHRCO - 2035 + Phase 2

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 3800	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 6	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 56.52			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
---	-----	-----	-----
0.0	0.0	0.0	70.6

TABLE 2035 + Phase 2-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 52nd Street - West Street to MLK Jr. Way
NOTES: CHRCO - 2035 + Phase 2

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 5600	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 12	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 57.63			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
---	-----	-----	-----
0.0	0.0	0.0	91.8

TABLE 2035 + Phase 2-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 52nd Street - MLK Jr. Way to Garage Entrance
NOTES: CHRCO - 2035 + Phase 2

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 9200	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 18	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.29			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
---	-----	-----	-----
0.0	0.0	61.5	127.9

TABLE 2035 + Phase 2-11
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 52nd Street - Garage Entrance to Dover Street
NOTES: CHRCO - 2035 + Phase 2

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 9500	SPEED (MPH): 25	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 6	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.50			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
---	-----	-----	-----
0.0	0.0	60.4	129.7

TABLE 2035 + Phase 2-12
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 52nd Street - SR-24 Ramps to Shattuck Avenue
NOTES: CHRCO - 2035 + Phase 2

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC:	31300	SPEED (MPH):	25
		GRADE:	.5
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT):	36	SITE CHARACTERISTICS:	SOFT

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.46			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	71.4	137.5	288.1

TABLE 2035 + Phase 2-13
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: 51st Street - Shattuck Avenue to Telegraph Avenue
NOTES: CHRCO - 2035 + Phase 2

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC:	20400	SPEED (MPH):	25
		GRADE:	.5
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT):	36	SITE CHARACTERISTICS:	SOFT

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.60			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	106.1	217.9

TABLE 2035 + Phase 2-14
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: Telegraph Avenue - 55th Street to 52nd Street
NOTES: CHRCO - 2035 + Phase 2

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 28200	SPEED (MPH): 30	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 36	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.86			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	84.5	168.6	356.5

TABLE 2035 + Phase 2-15
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/11/2014
ROADWAY SEGMENT: Telegraph Avenue - 52nd Street to 51st Street
NOTES: CHRCO - 2035 + Phase 2

* * ASSUMPTIONS * *			
AVERAGE DAILY TRAFFIC: 26700	SPEED (MPH): 30	GRADE: .5	
TRAFFIC DISTRIBUTION PERCENTAGES			
DAY	EVENING	NIGHT	
---	-----	-----	
AUTOS			
75.51	12.57	9.34	
M-TRUCKS			
1.56	0.09	0.19	
H-TRUCKS			
0.64	0.02	0.08	
ACTIVE HALF-WIDTH (FT): 36	SITE CHARACTERISTICS: SOFT		

* * CALCULATED NOISE LEVELS * *			
CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.62			
DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	82.0	162.8	343.9

APPENDIX D2

Helistop Noise Assessment

HELISTOP NOISE ASSESSMENT
HELISTOP REPLACEMENT PROJECT
CHILDREN'S HOSPITAL AND RESEARCH CENTER OAKLAND
OAKLAND, CALIFORNIA

BBA Report No. 12-011R2

PREPARED FOR

LSA ASSOCIATES, INC.
2215 FIFTH STREET
BERKELEY, CALIFORNIA 94710

PREPARED BY

BROWN-BUNTIN ASSOCIATES, INC.
VISALIA, CALIFORNIA

July 28, 2014

INTRODUCTION

Project Description:

An Environmental Impact Report (EIR) is being prepared for the Children's Hospital and Research Center Oakland (CHRCO) Campus Master Plan Project (project). There is currently a 36-foot-tall helistop structure located in the southern portion of the CHRCO campus. In 2013, 559 helicopters utilized the CHRCO helistop. Each landing/takeoff is counted as an aircraft operation, meaning that a total of 1,118 helicopter operations occurred at the existing helistop during this time period. It is estimated by CHRCO that helicopter flights would increase at the rate of approximately 1% per year through implementation of the Master Plan project. As described below, with or without the helistop replacement included in Phase 2 of the Master Plan, helistop use at CHRCO is expected to increase at a rate of approximately 1% per year.

At the conclusion of Phase 1 in 2020, the projected numbers of helistop operations is 1,199. Phase 1 of the project would not include any physical changes to the existing helistop nor changes on the campus that would give reason for an increase beyond the estimated increase helistop use rate of 1% increase per year. Phase 1 would include construction of the Outpatient Center Building 2 (OPC2), relocation of vehicular access into and out of the existing parking garage, a new driveway to an existing maintenance area adjacent to the existing parking structure and OPC1, internal renovations in several existing buildings, and an addition to the Central Utility Plant. The demolition, construction and renovation proposed as part of Phase 1 is not anticipated to directly result in an increase in capacity at the Emergency Department or other facilities related to emergency medicine.

At the conclusion of Phase 2 (project buildout) in 2025, the projected number of helistop operations is 1,260. Phase 2 would include the demolition of the existing raised platform helistop structure and the construction of a new replacement helistop on top of the proposed 5-story Link Building. The new helistop would be located approximately 250 feet north and slightly to the west of the existing helistop, and approximately 45 feet higher than the existing helistop. Phase 2 would include demolition of the following structures: one residential building and one modular office building, the rear portions of three residential buildings south of 53rd Street, the B/C Wing, Bruce Lyon Memorial Research Laboratory Building, HemOnc Administrative Building, helistop structure and trailers. Phase 2 would include construction of a Family Residence Building, Clinical Support Building, Link Building with a replacement helistop on the roof, Patient Pavilion, expansion of the Central Utility Plant, and a Parking Structure. The demolition, construction and renovation proposed as part of Phase 2 is not anticipated to directly result in an increase in capacity at the Emergency Department or other facilities related to emergency medicine. The location of the replacement helistop would change as part of Phase 2; however, Phase 2 would not include any changes on campus that would give reason for an increase beyond the estimated increase helistop use rate of 1% increase per year.

Typical helicopters that utilize the existing helistop, and that would also use the replacement helistop, include the Bell 206 and 407, Agusta A109, MD-902, BO-105 and Eurocopter EC-135, EC-145 and AS-350.

Location:

The CHRCO main campus is located between Martin Luther King Jr. Way and the State Route 24 (SR 24) freeway south of 53rd Street within the City of Oakland. The campus is surrounded by a combination of residential and commercial uses. In addition to the above-noted roadways, there are BART lines running within both the Martin Luther King Jr. Way and SR 24 right-of-ways.

Helistop Noise Assessment:

This helistop noise assessment has been prepared by Brown-Buntin Associates, Inc. (BBA) to evaluate noise impacts related to the replacement of the helistop at the project site. Appendix A provides definitions of the acoustical terminology used in this report. Unless otherwise stated, all sound levels reported in this analysis are A-weighted sound pressure levels in decibels (dB). A-weighting de-emphasizes the very low and very high frequencies of sound in a manner similar to the human ear. Most community noise standards utilize A-weighted sound levels, as they correlate well with public reaction to noise.

Appendix B summarizes the helicopter operations data provided by CHRCO for this helicopter noise assessment study. The data will be further discussed below.

HELICOPTER NOISE ASSESSMENT CRITERIA

Federal:

Airport Noise Compatibility Planning

The federal government has provided guidance for airport noise compatibility planning under CFR Title 14 Part 150¹ and the Federal Aviation Administration (FAA) Environmental Desk Reference for Airport Actions². These documents pertain to federally funded airport improvement projects, including construction of new runways or runway extensions, airspace management changes and airport noise mitigation programs. It is specified that the most recent version of the Integrated Noise Model (INM)³ be used to calculate aircraft noise exposure and the DNL (CNEL in California) be used to quantify cumulative aircraft noise exposure. It is recommended that the SEL and L_{max} noise metrics be used for quantifying single event noise. An aircraft noise exposure of 65 dB DNL/CNEL is established as the threshold of significance for determining impacts on noise-sensitive land uses such as homes, schools, churches and hospitals.

The DNL and CNEL both represent the time-weighted energy average noise level for a 24-hour day, with a 10 dB penalty added to noise levels occurring during the nighttime hours (10:00 p.m.-7:00 a.m.). The CNEL differs from the DNL in that it applies an additional penalty of approximately 5 dB to noise levels occurring during the evening hours of 7:00 p.m.-10:00 p.m.

The State of California requires that the CNEL be used to quantify aircraft noise within California. The DNL and CNEL both represent cumulative exposure to noise over an extended period of time and are usually calculated based upon *annual average* conditions.

Aircraft Noise Certification

The FAA has responsibility under CFR Title 14 Part 36⁴ for establishing noise level standards for the development and manufacture of new aircraft, including helicopters. Local or state jurisdictions may not impose their own noise level standards to the noise generated by *individual* aircraft operations, but may consider noise compatibility criteria, as described above, for the purpose of noise compatibility planning around existing or proposed airport or heliport/helistop facilities.

Non-Military Helicopter Urban Noise Study

The FAA published the *Non-Military Helicopter Urban Noise Study*⁵ in 2004 to investigate and develop recommendations on reducing helicopter noise effects. The general conclusions and recommendations of the study are summarized as follows:

- Additional development of models for characterizing human response to helicopter noise should be pursued. It was recommended that noise metrics that take into consideration the unique character of helicopter noise, including impulsive noise, be developed. In the interim, the FAA recommends that the DNL (CNEL in California) be used as the primary noise descriptor for airport and heliport land use planning. The FAA will also continue use of supplementary noise descriptors for evaluation of helicopter noise issues.
- Further operational alternatives to mitigate noise should be explored. Alternatives include using higher flight altitudes, optimal helicopter route planning to avoid sensitive areas, development of noise abatement procedures, and use of advanced technologies for more precise approach and departure procedures.
- Emergency helicopter service should be exempt from restrictions. This includes air medical, law enforcement, fire-fighting and public service operations. These services are time-critical and provide a “noise-excusable” public service.
- Helicopter operators and communities should develop voluntary agreements to mitigate helicopter noise.

Supplemental Noise Metrics

The FAA may use supplemental noise metrics to describe aircraft noise impacts for specific noise-sensitive locations or situations. Supplemental noise metrics have been found to be useful in addressing various public concerns and helping the public understand noise impacts. As noted above, supplemental noise metrics include the SEL and L_{max} . Such metrics may be used to evaluate the potential for sleep disturbance or speech interference as discussed below.

The FAA supports the Federal Interagency Commission on Aviation Noise (FICAN) recommendation for a dose-response curve for predicting sleep disturbance (awakening) based on field data rather than laboratory studies⁵. The recommended dose-response curve represents the upper limit of the field data analyzed and should be interpreted as predicting the “maximum percent of the exposed population expected to be behaviorally awakened” (maximum % awakened). The FICAN dose-response curve utilizes the indoor SEL during an individual aircraft noise event and is summarized in Table I.

TABLE I FICAN DOSE-RESPONSE CURVE FOR PREDICTING SLEEP DISTURBANCE	
Interior Sound Exposure Level, dB	Maximum % of Population Awakened
45	1.1
50	1.9
55	2.8
60	3.8
65	5.1
70	6.4
75	7.9
80	9.6
85	11.3
90	13.3
Sources: FAA Non-Military Helicopter Urban Noise Study Federal Interagency Committee on Aviation Noise (FICAN)	

The indoor SEL is determined by two factors: 1) the SEL exterior to the building of interest and 2) the outdoor-to-indoor noise level reduction (NLR) performance of the building. Typical NLR values for homes in the project area are in the range of 10-15 dB with windows open and 15-20 dB or higher with windows and doors closed. For this analysis it has been assumed that windows and doors may be open part of the time during the year and that the average NLR performance of homes in the project area is 15 dB. An exterior SEL of 95 dB during a single helicopter noise event would therefore be expected to produce an interior SEL of 80 dB ($95 - 15 = 80$). Reference to Table I indicates that the maximum percent of the population that would be expected to be awakened at an interior SEL of 80 dB is 9.6%.

According to the FAA, speech interference may occur when noise levels exceed 60-65 dB². For this analysis, it has been assumed that speech interference may occur when the noise level inside a home exceeds 65 dB during an individual helicopter noise event. An interior noise level of 65 dB would be expected to occur when the noise level exterior to the home exceeds 80 dB. This takes into account the average 15 dB of NLR performance provided by typical homes in the project area.

There are no additional federal noise standards or guidelines that are applicable to the helicopter noise-related aspects of the proposed project.

State of California:

California Airport Noise Regulation

According to the California Airport Noise Regulation (CCR Title 21, Chapter 2.5, Subchapter 6, Section 5006)⁶, “the level of noise acceptable to a reasonable person residing in the vicinity of an airport is established as a CNEL value of 65 dB. This criterion level has been chosen for reasonable persons residing in urban residential areas where houses are of typical California construction and may have windows partially open. It has been selected with reference to speech, sleep and community reaction. As in the federal criteria, no compatibility criteria have been established for A-weighted single event metrics such as SENEL (SEL) or L_{max} .”

Airport Land Use Planning Handbook

The California Department of Transportation, Division of Aeronautics, published an updated version of the *Airport Land Use Planning Handbook* in 2011⁷. The Handbook is intended as a guideline to be used by local ALUCs to develop their own local standards of review. The Handbook does not specifically address heliports or helistops, other than to acknowledge that helicopter operations are different than fixed-wing aircraft operations due to their “separate flight tracks, different operating characteristics, and typically low activity volumes.”

There are no additional state noise standards that are applicable to the helicopter noise-related aspects of the proposed project.

Alameda County Airport Land Use Commission:

The Alameda County Airport Land Use Commission (ALUC)⁸ requires that it be notified prior to construction of a heliport or helistop within the county. There are no numeric noise level standards specified by the Alameda County ALUC for private-use heliports/helistops such as those located at a hospital.

City of Oakland:

Noise Element of the General Plan

The City of Oakland Noise Element of the General Plan⁹ (noise element) identifies an exterior noise exposure of 60 dB DNL/CNEL or below as being “normally acceptable” for residential and hospital land uses. An exterior exposure in the range of 60-70 dB DNL/CNEL is considered to be “conditionally acceptable” for residential and hospital uses. The development of new noise-sensitive uses in areas where the noise exposure is considered “conditionally acceptable” requires that noise mitigation be included as required to achieve an acceptable interior noise level of 45 dB DNL/CNEL.

EXISTING NOISE ENVIRONMENT

Figure 1 shows the locations of the existing and proposed replacement helistops within the CHRCO campus and surrounding area. The main CHRCO campus is surrounded by major transportation noise source on all but the north side where residential uses are located north of 53rd Street. Martin Luther King Jr. Way (MLK) is located along the west side of the campus and the State Route 24 freeway (SR24) is located along the east side of the campus. There are BART lines that run down the center of both of those roadways. The closest residential uses are located on the west side of Martin Luther King Jr. Way, east side of SR24 and north side of 53rd Street. The major existing noise sources within and near the project site are traffic on the above-referenced roadways, BART operations, fixed-wing aircraft over-flights and periodic helicopter flights associated with the CHRCO helistop, news media and law enforcement agencies.

Ambient Noise level Measurements:

Measurements of existing ambient noise levels were conducted in the area surrounding the project site on December 4, 2013. Ambient noise monitoring sites are shown in Figure 1. Continuous noise monitoring was conducted for a full 24-hour period at Sites LT-1 and LT-2. Short-term measurements were conducted at Sites 3-10.

Ambient noise monitoring equipment consisted of Larson-Davis Laboratories Model LDL 820 sound level analyzers equipped with Bruel & Kjaer (B&K) Type 4176 ½" microphones. The microphones were located on tripods or booms at a minimum of five feet above the ground and were equipped with random incidence correctors so that noise from sources in all directions could be accurately measured. The monitors were calibrated with a B&K Type 4230 acoustical calibrator to ensure the accuracy of the measurements. The equipment complies with applicable specifications of the American National Standards Institute (ANSI) for Type 1 sound measurement systems.

Site LT-1 was located in the rear yard of a hospital-owned residence (currently being used as office space) at 671 53rd Street. Site LT-2 was located in a CHRCO employee parking lot on the west side of Martin Luther King Jr. Way. Table II summarizes the noise level data obtained during the 24-hour noise monitoring period at Sites LT-1 and LT-2 beginning at midnight on December 4, 2013. Shown by Table II are the ranges of measured hourly noise levels, as defined by the Equivalent Sound Level (L_{eq}), maximum noise level (L_{max}) and minimum noise level (L_{min}), and the measured DNL and CNEL values for the full 24-hour noise monitoring period.

Figure 2 graphically depicts hourly variations in ambient noise levels at the two long-term ambient noise monitoring sites. For Site LT-1, measured hourly L_{eq} values ranged from a low of 49.7 dB between 1:00 and 2:00 a.m. to a high of 69.8 dB between 2:00 and 3:00 p.m. The high L_{eq} value of 69.8 dB was likely the result of activity in the neighboring backyard. Measured maximum noise levels (L_{max}) ranged from 62-88 dB, and were likely caused by helicopter overflights, local traffic, activities in the neighboring backyard or emergency sirens. The measured DNL and CNEL values at Site LT-1 were 68.1 and 68.3 dB, respectively.

For Site LT-2, measured hourly L_{eq} values ranged from a low of 51.2 dB between 2:00 and 3:00 a.m. to a high of 69.5 dB between 10:00 and 11:00 a.m. The high L_{eq} value of 69.5 dB was likely the result of helicopter noise generated during tests being conducted for this noise assessment. Maximum (L_{max}) noise levels measured during each of the hourly sample periods ranged from 62.8-89.5 dB, and were likely caused by helicopter overflights, local traffic, BART or emergency sirens. The measured DNL and CNEL values at Site LT-2 were 70.1 and 70.3 dB, respectively.

TABLE II SUMMARY OF LONG-TERM AMBIENT NOISE MEASUREMENT DATA CHRCO HELISTOP REPLACEMENT PROJECT DECEMBER 4, 2013						
Site	Description	Range of Hourly Noise Levels, dBA			DNL, dB	CNEL, dB
		L_{eq}	L_{max}	L_{min}		
LT-1	671 53 rd Street	49.7-69.8	62.2-88.4	41.7-55.8	68.1	68.3
LT-2	CHRCO Employee Parking	51.2-69.5	62.8-89.5	46.2-57.2	70.1	70.3
Source: Brown-Buntin Associates, Inc.						

Short-term ambient noise monitoring was conducted for 15-minute sample periods at Sites 3-10 during the late morning and early afternoon hours on December 4, 2013. A trained observer was present during all of the short-term noise monitoring sample periods to note the sources of the measured noise levels. Short-term noise monitoring data are summarized in Table III in terms of the L_{eq} , L_{max} and L_{min} noise level metrics. DNL or CNEL values are not shown in Table III for the short-term sites because noise monitoring did not occur over a full 24-hour sample period. Noise sources noted by the observer during the short-term noise monitoring included vehicular traffic on SR24, Martin Luther King Jr. Way and local roadways, BART trains, fixed-wing aircraft and helicopter overflights, and animals. Short-term ambient noise monitoring occurred *after* the helicopter test flights described below were completed.

TABLE III SUMMARY OF SHORT-TERM AMBIENT NOISE MEASUREMENT DATA CHRCO HELISTOP REPLACEMENT PROJECT DECEMBER 4, 2013					
Site	Time	A-Weighted Decibels, dBA			Sources
		L_{eq}	L_{max}	L_{min}	
3	10:57-11:12 a.m.	60.3	72.2	46.9	Traffic, helicopter ¹
4	11:20-11:35 a.m.	66.3	73.4	63.0	Traffic, aircraft
5	11:53 a.m.-12:08 p.m.	54.1	72.3	42.3	Traffic, aircraft
6	12:13-12:28 p.m.	45.5	59.1	42.3	Traffic, birds
7	12:44-12:59 p.m.	62.9	72.1	51.9	BART, traffic, barking dog
8	1:10-1:25 p.m.	58.3	69.0	54.9	BART, traffic
9	11:01-11:16 a.m.	58.0	73.5	43.1	BART, aircraft, traffic, helicopter ¹
10	11:26-11:41 a.m.	62.4	69.1	59.9	BART, aircraft, traffic, helicopter ¹
¹ The observed helicopters did not land at or takeoff from the CHRCO helistop.					
Source: Brown-Buntin Associates, Inc.					

Helicopter Noise level Measurements:

Noise levels generated by individual aircraft operations at the existing CHRCO helistop were measured on December 4, 2013 at six locations between 10:00 a.m. and 10:30 a.m. The purpose of the helicopter noise monitoring was to provide a basis for comparing measured helicopter noise levels to those predicted using the FAA Integrated Noise Model (INM) as required for evaluating the potential noise impacts of the helistop replacement project. The helicopter noise measurement locations are noted in Figure 3 (Sites A-F). The helicopter noise measurement locations were also utilized during the above-described ambient noise monitoring study, although helicopter noise measurements were conducted at a different time than ambient noise measurements. The only exception to this occurred at Site F (Ambient Site LT-2) where long-term (24-hour) ambient noise measurements were in progress during the test flights. The measured noise level for the helicopter test flight that departed to the west over Site F/LT-2 was obtained from the long-monitor by correlating the departure time with the noise monitoring data.

The helicopter noise measurement locations were selected based upon the flight routes that were planned for the test flights and the need to be close to the over-flight areas in order to obtain accurate noise measurement data. Additionally, an effort was made to select sites that represent noise-sensitive receptors near the hospital.

Helicopter noise measurements were coordinated with CHRCO and a medical transport company (REACH) that frequently utilizes the existing helistop. The helicopter type selected by REACH for the tests was the Eurocopter EC-135 helicopter. The EC-135 is a twin engine helicopter with a four-bladed main rotor, Fenestron (shrouded) tail rotor and a MGTOW of 6,503 lbs. The EC-135 is representative of the newer types of helicopters that use the existing helistop or that would be expected to use the replacement helistop. The EC-135 is currently used by several of the medical transport companies that serve CHRCO.

Noise measurements were conducted using the noise monitoring equipment previously described for the ambient noise level measurements. A trained observer was present at or near each of the helicopter noise measurement sites during the test flights. The test helicopter made a total of three landings and three takeoffs at the existing helistop during the tests. Two of the landings and takeoffs followed the route normally used by REACH which follows SR24 north of CHRCO. The third landing included a straight-in approach from the east following an arrival heading of 245 degrees. The third takeoff was a straight-out departure to the west following a departure heading of 245 degrees. Each test flight included a full-stop landing at the helistop.

Table IV summarizes the noise measurement data obtained during the helicopter test flights. Included are the measured $L_{\max}$ and Sound Exposure level (SEL) values for each flight. The SEL for an individual aircraft noise event is a numerically higher number than the $L_{\max}$ for the same event because the SEL consolidates the energy of the entire noise event into a reference duration of one second. The SEL is not “heard”, but is a derived value used for calculation of cumulative aircraft noise exposure as defined by the DNL or CNEL. DNL or CNEL values are not shown in Table IV because only individual helicopter noise events were measured during the tests. The azimuth noted in Table IV is the angle between the aircraft flight path and the microphone at the

point where the aircraft was closest to the microphone during the test flight. An azimuth of 90° means the aircraft passed directly over the microphone.

Table IV shows that measured maximum helicopter noise levels ranged from 74.5-90.7 dB. The highest L_{max} reading occurred at Site B/4 during a straight-in arrival from the east that passed directly over the monitoring site. The measured SEL values ranged from 82.7-100.4 dB with the highest SEL value occurring during the above-referenced straight-in arrival over Site B/4. The noise levels measured during the test flights are representative of typical noise levels associated with use of the existing helistop during individual helicopter flights.

Generally, Table IV shows that measured arrival noise levels were higher than measured departure noise levels at the same locations. This is to be expected, and is explained by the operating characteristics of helicopters which result in the use of relatively higher engine power settings during arrivals. Noise levels predicted by the INM, as will be described below, are also higher for arrivals than for departures at the same locations on the ground.

TABLE IV SUMMARY OF HELICOPTER NOISE MEASUREMENT DATA CHRCO TEST FLIGHTS (REACH EC-135) DECEMBER 4, 2013						
Site ¹	Description	Time	Arrival or Departure	Azimuth	Measured Noise Level, dB	
					L_{max} ²	SEL ²
A/10	South side 53 rd St. west of SR 24	10:04&10:09 am	Arrival	60° E	88.4-86.5	94.8-95.2
		10:06&10:12 am	Departure	60° E	74.5-75.0	82.7-82.8
B/4	51 st St. cul-de-sac east of SR 24	10:04&10:09 am	Arrival	45° NW	85.9-87.6	94.4-96.0
		10:06&10:12 am	Departure	45° NW	81.1-82.3	89.4-89.8
		10:15 am	Straight In Arrival	90°	90.7	100.4
C/8	49 th St. between Telegraph and Shattuck	10:15 am	Arrival	45° N	82.2	93.6
D/9	Intersection of 52 nd St. and Genoa St.	10:30 am	Departure	60° S	77.3	85.4
E/3	Intersection of 47 th St. and West St.	10:30 am	Departure	60° N	79.0	84.4
F/LT-2	CHRCO Employee Parking Lot	10:30 am	Departure	45° N	89.5	98.3
¹Helicopter Test Site Number/Ambient Monitoring Site Number. Please refer to Figures 1 and 3. ²A range of levels is shown where more than one event was measured at the site during the test flights. Source: Brown-Buntin Associates, Inc.						

PROJECT-RELATED NOISE IMPACTS

Helicopter noise levels were analyzed for existing operations (2013) at the existing helistop and for future operations (2025) for the project (replacement helistop) and no project (existing helistop) conditions. The year 2013 was chosen to represent existing conditions because 2013 is the last year for which a full 365 days of helistop operations data were available from CHRCO and 2013 operations are representative of past operations as well.

The Integrated Noise Model

Potential noise impacts from the proposed helistop were analyzed using the Federal Aviation Administration (FAA) Integrated Noise Model (INM). The INM is a state-of-the-art aircraft noise prediction model that is required by the FAA for the prediction of aircraft noise levels for noise compatibility studies. The current version of the INM (v. 7.0d) was released by the FAA on May 23, 2013.

There are presently 25 helicopter types represented by the INM v.7.0d database. When a user specifies a particular aircraft type from the INM database, the model provides the necessary inputs concerning aircraft power settings, speed, approach/departure profiles and noise levels. The INM accounts for changes in the distance from a receptor to an aircraft noise source (slant range distance) due to variations in local terrain or the elevation of a helistop relative to the elevation of the surrounding area.

The INM calculates aircraft noise exposure by mathematically combining aircraft noise levels and airport operations factors at a series of points within a Cartesian coordinate system which defines the location of airport runways and/or helistops and generalized aircraft flight tracks. The model then interpolates between points to plot contours of equal noise exposure. User inputs to the INM for modeling helicopter noise include the following:

- Helipad/helistop configuration
- Helicopter traffic volume
- Temporal distribution of flights (day, evening or night)
- Typical helicopter flight routes
- Helicopter fleet mix

Helistop Configuration

The locations of the existing and proposed replacement helistops are noted in Figures 1 and 3. The proposed replacement helistop would be located on the roof of the proposed Link Building at an elevation of 179.5 feet MSL, or approximately 82 feet above the ground. That is about 45 feet higher than the existing helistop and means that helicopters would be at a slightly higher altitude relative to the closest sensitive receivers during landings and takeoffs.

Helicopter Traffic Volume

According to CHRCO, 559 helicopter flights occurred at the existing helistop in 2013. Each flight consists of a landing and a departure, or two aircraft operations. That means that a total of 1,118 helicopter operations occurred at the CHRCO helistop in 2013. With or without the helistop replacement project, helistop use at CHRCO is expected to increase at a rate of approximately 1% per year through 2025 when the replacement helistop would be operational and Phase 2 of the project would be complete. The projected number of helistop operations for 2025 is 1,260. Since helicopter noise exposure as defined by the CNEL is calculated based upon annual average conditions, the total operations during the year is divided by 365 to obtain the average daily number of operations. For 2013 and 2025, the average daily numbers of helicopter operations are 3.1 3.5, respectively.

Temporal Distribution of Flights

An important consideration when determining noise exposure using the CNEL noise metric is the temporal distribution of flights. Evening flights (7 p.m.-10 p.m.) are weighted by a factor of three (equivalent to approximately 5 dB) and nighttime flights (10 p.m.-7 a.m.) are weighted by a factor of 10 (equivalent to 10 dB). According to CHRCO flight logs for 2012, 58% of flights occurred during the daytime hours, 18% of flights occurred during the evening hours and 24% of flights occurred during the nighttime hours. Those factors have been used for the calculation of helistop noise exposure for existing and future conditions with and without the helistop replacement project.

Typical Helicopter Flight Routes

Typical (generalized) flight routes for helicopters using the existing and future replacement helistop were determined based upon information obtained from the project aviation planning consultant (Heliplanners) and aircraft flight crews that operate at the existing CHRCO helistop. Due to prevailing wind conditions in the Oakland area, helicopters usually arrive from the east and depart to the west using a heading of approximately 245°. When required due to wind conditions, visibility or other factors, helicopters arrive from the west and depart to the east on a heading of approximately 065°. When feasible, flight crews fly over the SR24 freeway and hospital property when landing at or departing from the helistop in an effort to minimize noise impacts on the surrounding community.

Figure 4 depicts the locations of the generalized flight routes used to model helicopter noise exposure using the INM for the existing helistop. Generalized flight routes used for modeling noise from the replacement helistop are shown by Figure 5. Since it was not possible to definitively determine the annual average distribution of helicopter flights to the above-described generalized flight routes, it was assumed for noise modeling that 100% of flights could occur on each of generalized flight routes. This has produced a conservative (worst-case) assessment of helicopter noise exposure.

It is recognized that aircraft will not always follow the routes described above and shown by Figures 4 and 5 due to weather conditions, aircraft traffic conflicts and other factors. However, the routes shown represent the areas of the community near CHRCO where the greatest concentrations of over-flights would be expected to occur on an annual average basis.

Helicopter Fleet Mix

As noted above, typical helicopters that utilize the existing helistop, and that would also be expected to use the replacement helistop, include the Bell 206 and 407, Agusta A109, MD-902, BO-105 and Eurocopter EC-135, EC-145 and AS-350.

The helicopter type selected from the INM database to model noise levels from the project is the Agusta A-109. The A-109 is a twin-engine helicopter with a four-bladed main rotor and a conventional (unshrouded) tail rotor. It has a MGTOW of 6,283 lbs. The operational characteristics and noise levels of the A-109 are representative of the older and relatively noisy helicopters that utilize or would be expected to utilize the existing or replacement helistop. The A-109 produces somewhat higher noise levels than the Eurocopter EC-135 helicopter that was used for the helicopter noise tests described above. It is noted that the INM database currently does not include the EC-135 aircraft type, and that a smaller single-engine version of the helicopter (EC-130) is an approved substitution for modeling noise from the EC-135.

The noise levels predicted (calculated) by the INM for the A-109 helicopter type were compared to the noise levels measured during the above-described test flights by the EC-135 helicopter. Table V provides a summary of the comparison. Comparisons in Table V are shown only for the sites where measured noise levels could be directly compared to the noise levels predicted by the INM for the modeled flight routes. Table V shows that the predicted noise levels for the A-109 helicopter were 1.9-12.6 dB higher than measured for the EC-135 helicopter during the test flights. It may be assumed that the A-109 helicopter type has provided a conservative (worst-case) assessment of helicopter noise levels with and without the project at all locations within the project vicinity.

The above-described INM inputs were the same for all helistop operations scenarios analyzed with the following exceptions: (1) the location of either the existing or proposed replacement helistop within the hospital campus, (2) the locations of the generalized flight routes associated with either the existing or proposed replacement helistop, and (3) the assumed number of helicopter operations.

TABLE V COMPARISON OF MEASURED AND PREDICTED HELICOPTER NOISE LEVELS CHRCO HELISTOP REPLACEMENT PROJECT						
Site ¹	Sound Exposure Level, dB					
	Arrivals			Departures		
	Measured ²	Predicted ³	Difference	Measured ²	Predicted ³	Difference
A	94.8-95.2	97.1	+1.9-2.3	82.7-82.8	93.1	+10.3-10.4
B	94.4-100.4	102.0	+1.6-7.6	89.4-89.8	98.7	+8.9-9.3
C	93.6	97.4	+3.8	---	86.8	N/A
D	---	93.9	N/A	85.4	89.6	+4.2
E	---	100.8	N/A	84.4	97.0	+12.6
F	---	104.9	N/A	98.3	100.9	+2.6
¹ Refer to Figure 3 for helicopter noise measurement locations. ² Measured on December 4, 2013 during EC-135 test flights. ³ Predicted by Version 7.0d of the INM for the A-109 helicopter type. ⁴ Arrivals or departures did not occur over these sites during the test flights due to the direction flown during the test flights. Source: Brown-Buntin Associates, Inc.						

Noise Impact Analysis:

The INM was used to prepare CNEL contours and calculate CNEL values for the assessment of long-term (cumulative) community noise exposure and single event (SEL and L_{max}) noise levels for the assessment of potential sleep disturbance and speech interference. Noise exposure was calculated for the 12 helicopter noise impact assessment sites. The helicopter noise impact assessment sites were selected to represent areas around the hospital where noise-sensitive uses are located, and include the helicopter noise monitoring sites shown in Figure 3 plus six additional sites. The locations of the helicopter noise impact assessment sites are shown in Figure 3. They are also included in Figures 6-8.

CNEL and single event noise levels were calculated for the 2013 baseline condition at the existing helistop and for projected future (2025) conditions at both the existing and proposed replacement helistops. Annual average daily operations are normally distributed to the various generalized flight tracks based upon prevailing wind conditions, the most frequent points of origin or destination and other operational factors. However, CNEL contours and calculated CNEL values at the above-referenced noise impact assessment sites are based upon the conservative assumption that 100% of the average daily helicopter operations could occur on any of the modeled flight routes.

Figures 6 and 7 depict the 60, 65 and 70 dB CNEL contours for 2013 and 2025 operations, respectively, at the existing helistop. Figure 8 depicts the 60, 65 and 70 dB CNEL contours for

2025 operations at the proposed replacement helistop. The 60 dB CNEL contours are shown for comparison to the 60 dB DNL/CNEL standard of the City of Oakland Noise Element. The 65 dB CNEL contours are shown for comparison to the state and federal 65 dB DNL/CNEL standard. The 70 dB CNEL contours are shown for informational purposes. Other than the hospital and its associated facilities, there are no noise-sensitive uses located within the 70 dB CNEL contour for any of the operational scenarios analyzed.

Table VI summarizes and compares calculated CNEL values at the above-referenced helicopter noise impact assessment sites. Project-related changes in helicopter noise exposure would range from a decrease in noise exposure of 3.0 dB CNEL at Site F to an increase in noise exposure of 5.7 dB CNEL at Site G in 2025 when the replacement helistop would be operational and Phase 2 of the project would be complete. Helicopter noise exposure as defined by the CNEL would decrease or increase at the individual helicopter noise impact assessment sites depending upon the location of the site relative to the existing or replacement helistops. Generally, CNEL values would increase with the project north of the replacement helistop and decrease with the project south of the replacement helistop. The greatest project-related increases would occur within or near the northern boundary of the CHRCO campus.

TABLE VI CALCULATED¹ CNEL VALUES AT NOISE IMPACT ASSESSMENT SITES CHRCO HELISTOP REPLACEMENT PROJECT					
Site	Existing Land Use	CNEL, dB			
		Existing Helipad (No Project)		Replacement Helipad (Project)	Project-Related Change ³
		2013	2025 ²	2025 ²	2025
A	Residential	57.6	58.0	59.0	+1.0
B	Residential	65.4	65.8	64.9	-0.9
C	Commercial	59.2	59.6	57.6	-2.0
D	Residential	54.5	54.9	57.4	+2.5
E	Residential	62.0	62.4	60.0	-2.4
F	Parking Lot	68.6	69.1	66.1	-3.0
G	Residential	61.2	61.7	67.4	+5.7
H	Residential	57.1	57.6	58.8	+1.2
I	Residential	55.2	55.7	57.8	+2.1
J	Residential	52.7	53.2	55.5	+2.3
K	Residential	50.5	51.0	51.8	+0.8
L	Residential	59.1	59.6	62.9	+3.3
¹ Calculated using INM v. 7.0d. ² Includes the projected 1% per year increase in helicopter operations not related to the project. ³ Project-related changes were calculated by subtracting the 2025 “No Project” CNEL from the 2025 “Project” CNEL. Source: Brown-Buntin Associates, Inc.					

The numbers of homes, apartment buildings, churches, parks and commercial buildings located inside the CNEL contours were counted using the Google aerial photo base map for the contours shown in Figures 6-8. It was not possible to determine the number of apartment units per apartment building from the aerial photo. It is noted that the hospital and its associated facilities is considered a noise-sensitive use and is exposed to noise levels in excess of 60 dB CNEL for all helistop scenarios analyzed. There are no schools located within the CNEL 60 dB (or higher) contours for any of the operational scenarios analyzed. Table VII summarizes the findings of the above-described building count analysis.

Table VII shows that the project would result in changes in the number of noise-sensitive land uses exposed to helicopter noise levels of 60 dB CNEL or above. This would occur as a result of the above-described shifting of helicopter noise exposure to the north when the replacement helistop becomes operational. Generally, receptors to the north of the existing helistop would be exposed to higher helistop-related noise levels with the project in 2025 and receptors to the south of the existing helistop would be exposed to lower helistop-related noise levels with the project in 2025.

Specifically, Table VII shows that the 2025 project would result in an increase in helistop-related noise exposure at 40 homes when compared to the 2025 no project condition (30 within the 60-65 dB CNEL range and 10 within the 65-70 dB CNEL range). The 2025 project would also result in an increase in helistop-related noise exposure at 29 apartment buildings (25 within the 60-65 dB CNEL range and 4 within the 65-70 dB CNEL range), and the exposure of Helen McGregor Park to a helistop-related CNEL in the range of 60-65 dB. Conversely, the project would result in a decrease in helistop-related noise exposure for 27 homes (24 within the 60-65 dB CNEL range and 3 within the 65-70 dB CNEL range) and 23 apartment buildings (13 within the 60-65 dB CNEL range and 10 within the 65-70 dB CNEL range). The net change in helistop-related noise exposure due to the project in 2025 would be a noise exposure increase at 13 homes (6 within the 60-65 dB CNEL range and 7 within the 65-70 dB CNEL range), a noise exposure increase at 12 apartment buildings within the 60-65 dB CNEL range, a noise exposure decrease at 6 apartment buildings within the 65-70 dB CNEL range, and a noise exposure increase to the range of 60-65 dB CNEL at Helen McGregor Park.

The “no project” alternative would not result in the exposure of new noise-sensitive land uses to helicopter noise levels of 60 dB CNEL or above since helicopter operations are expected to increase at a rate of approximately 1% per year between 2013 and 2025 whether or not the replacement helistop is constructed.

Supplemental Noise and Vibration Analysis:

Helicopter single event noise exposure was analyzed by using the INM to calculate SEL, L_{max} and Time Above (TA) values at the helicopter noise impact assessment sites. SEL values were used to assess the potential for sleep disturbance and L_{max} and TA values were used to assess the potential for speech interference. SEL and L_{max} values were calculated for the closest flight route to each helicopter noise impact assessment site and represent a worst-case single event noise exposure for the sites. Since they represent single-event noise exposure, calculated SEL and L_{max} values do not change as result of changes in the number of helicopter operations.

TABLE VII
LAND-USES WITHIN CNEL CONTOURS
CHRCO HELISTOP REPLACEMENT PROJECT

Land Use	Number of Buildings Within CNEL Contours																	
	Existing Helistop (No Project)						Replacement Helistop (Project)			Project-Related Changes - 2025								
	2013			2025			2025			Noise Exposure Increase			Noise Exposure Decrease			Net Noise Exposure Change		
	60-65	65-70	70+	60-65	65-70	70+	60-65	65-70	70+	60-65	65-70	70+	60-65	65-70	70+	60-65	65-70	70+
Homes	57	7	0	63	10	0	70	12	0	30	10	0	24	3	0	+6	+7	0
Apt. Bldgs. ¹	40	5	0	44	6	0	45	4	0	25	4	0	13	10	0	+12	-6	0
Churches	2	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0
Schools	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hospitals ²	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
Commercial	11	0	0	10	2	0	14	0	0	5	0	0	4	1	0	+1	-1	0
Parks	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	+1	0	0

¹The number of units within apartment buildings is unknown. If an apartment is located above a commercial/retail use, the overall building was counted as an apartment building.

²The hospital includes all associated buildings and parking structures.

Source: Brown-Buntin Associates, Inc.

Time Above values were calculated for all flight routes where the noise level could exceed 80 dB during helicopter arrivals or departures and are cumulative for all flights assumed to occur during the day. Since it was assumed for the analysis that 100% of annual average daily operations could occur on each of the flight routes modeled, TA values also represent a worst-case condition.

Sleep Disturbance

Table VIII summarizes calculated SEL values and the potential for sleep disturbance. The SEL values calculated by the INM were reduced by 15 dB to approximate interior noise exposure during a helicopter arrival or departure on the closest modeled flight route. As noted above, 24% of annual average daily helicopter operations would be expected to occur at night between the hours of 10:00 p.m. and 7:00 a.m. This means that, for projected future operations, there would be less than one nighttime helicopter operations per day on an annual average basis. Table VIII shows that the maximum percent of the population expected to be awakened would range from a low of 7.5% at Site K for the no project condition to a high of 13.7% for the no project condition at Site F. The project-related changes in expected awakening range from a 1.8% reduction at Site F to a 1.7% increase at Site G.

TABLE VIII								
CALCULATED ¹ SEL VALUES (dB) AND POTENTIAL SLEEP DISTURBANCE HELICOPTER NOISE IMPACT ASSESSMENT SITES CHRCO HELISTOP REPLACEMENT PROJECT								
Site	Existing Land Use	Existing Helipad (No Project)			Replacement Helipad (Project)			Project-Related Change (%)
		SEL, dB		Maximum % Awakened ³	SEL, dB ¹		Maximum % Awakened ³	
		Exterior	Interior ²		Exterior	Interior ²		
A	Residential	96.2	81.2	10.0	96.7	81.7	10.2	+0.2
B	Residential	103.1	88.1	12.5	101.6	86.6	11.9	-0.6
C	Commercial	98.5	83.5	10.8	95.4	80.4	9.7	-0.9
D	Residential	93.1	78.1	8.9	95.9	80.9	9.9	+1.0
E	Residential	101.5	86.5	11.9	97.8	82.8	10.5	-1.4
F	Parking Lot	106.1	91.1	13.7	101.4	86.4	11.9	-1.8
G	Residential	96.9	81.9	10.2	101.5	86.5	11.9	+1.7
H	Residential	95.4	80.4	9.7	96.2	81.2	10.0	+0.3
I	Residential	93.0	78.0	8.9	94.0	79.0	9.2	+0.3
J	Residential	89.6	74.6	7.8	90.8	75.8	8.2	+0.4
K	Residential	88.7	73.7	7.5	89.1	74.1	7.6	+0.1
L	Residential	96.0	81.0	9.9	98.3	83.3	10.7	+0.8
¹ Calculated by INM v7.0d for the A-109 helicopter on the flight route closest to the noise impact assessment site. Calculated SEL values represent single-event noise exposure and are not dependent upon the number of helicopter operations or planning horizon year. ² An outdoor-to-indoor noise level reduction (NLR) of 15 dB is assumed for typical homes in the project area. ³ Calculated using the FICAN dose-response curve for predicting sleep interference.								
Sources: Brown-Buntin Associates, Inc. FAA Non-Military Helicopter Urban Noise Study								

Speech Interference

Table IX summarizes calculated exterior $L_{\max}$ values at the helicopter noise impact assessment sites for the closest modeled flight route and the potential for speech interference when all modeled flight routes are taken into consideration. Speech interference is assumed to occur when the interior noise level exceeds 65 dB. The INM was used to calculate the time (minutes/day) that the noise level exterior to the site would exceed 80 dB (TA 80) when noise from all modeled flight routes is included. It was assumed that the time above 80 dB exterior to a home is equal to the time above 65 dB (TA 65) inside the home when the typical NLR of 15 dB for homes in the project area is taken into consideration.

Table IX shows that the number of minutes per day in which the interior noise level would exceed 65 dB for the existing helistop (No Project) would be 2.8 at Site F (2025). The number of minutes per day above 65 dB for the proposed replacement helistop (Project) would be 1.9 at Site G (2025). The calculated project-related changes in interior TA 65 values range from a decrease of 1.1 minutes per day at Site F to an increase of 1.3 minutes per day at Site G.

TABLE IX CALCULATED TIME ABOVE (TA) AND POTENTIAL INTERIOR SPEECH INTERFERENCE HELICOPTER NOISE IMPACT ASSESSMENT SITES CHRCO HELISTOP REPLACEMENT PROJECT							
Site	Existing Land Use	Existing Helistop (No Project)			Replacement Helistop (Project)		
		$L_{\max}$ (dB) ¹	TA 65 dB (min./day) ²		$L_{\max}$ (dB) ¹	TA 65 dB (min./day) ²	
			2013	2025		2025	Project Related Change (min/day) ³
A	Residential	88.2	0.5	0.5	88.0	0.5	0
B	Residential	94.0	1.9	2.1	92.1	2.0	-0.1
C	Commercial	90.0	0.6	0.7	86.0	0.2	-0.5
D	Residential	82.1	0.1	0.1	85.6	0.5	+0.4
E	Residential	93.0	0.7	0.7	86.8	0.5	-0.2
F	Parking Lot	99.3	2.5	2.8	96.2	1.7	-1.1
G	Residential	90.2	0.5	0.6	88.3	1.9	+1.3
H	Residential	85.5	0.4	0.4	85.5	0.6	+0.2
I	Residential	83.1	0.2	0.2	83.1	0.2	0
J	Residential	78.6	0	0	79.8	0	0
K	Residential	77.6	0	0	77.6	0	0
L	Residential	86.1	0.5	0.5	86.7	1.1	0.6
¹Calculated by INM v7.0d for the A-109 helicopter on the flight route closest to the noise impact assessment site. ²The time in minutes per day that the noise level <i>inside</i> a home would be expected to exceed 65 dB, including noise from helicopter operations on all flight routes affecting the helicopter noise impact assessment site. The assumed outdoor-to-indoor noise level reduction (NLR) for typical homes in the project area is 15 dB. ³Determined by subtracting the TA 65 dB for the No Project condition from the TA 65 dB for the Project condition. Source: Brown-Buntin Associates, Inc.							

Low Frequency Noise and Vibration

Helicopter noise contains significant energy in the frequency range of 10-80 Hz. This energy has the potential to produce rattling of windows or objects within buildings that are located within close proximity to helistops or other areas with nearby helicopter operations. Such effects are more likely to occur in older residential buildings or in buildings of relatively light-weight construction. Such effects are less likely to occur within commercial or hospital buildings that are typically of heavier construction with more substantial windows.

Any vibration effects from project-related helicopter operations would be airborne-generated, and would affect windows first and then potentially walls and objects located on shelves or picture frames affixed to walls. Low frequency and vibration effects would be more pronounced within the hospital campus than within areas off-campus where other sensitive uses are located. As noted above, hospital buildings are of a more substantial construction than many of the older residential buildings in the project area and would be less susceptible to the effects of airborne vibration. Since the proposed replacement helistop is located more centrally within the hospital campus and at a higher elevation above the ground than the existing helistop, it is expected that the project would result in fewer potential low frequency or vibration effects at off-campus sensitive uses than the existing helistop.

Summary of Analysis:

Project-related helicopter CNEL values would increase with the project north of the replacement helistop and decrease with the project south of the replacement helistop. The greatest project-related increases would occur within or near the northern boundary of the CHRCO campus.

The project would also result in the exposure of new noise-sensitive land uses to helicopter noise levels of 60 dB CNEL or above. This would occur as a result of the above-described shifting of helicopter noise exposure to the north when the replacement helistop becomes operational in 2025. Specifically, the 2025 project would result in an increase in helistop-related noise exposure at 40 homes when compared to the 2025 no project condition (30 within the 60-65 dB CNEL range and 10 within the 65-70 dB CNEL range). The 2025 project would also result in an increase in helistop-related noise exposure at 29 apartment buildings (25 within the 60-65 dB CNEL range and 4 within the 65-70 dB CNEL range), and the exposure of Helen McGregor Park to a helistop-related CNEL in the range of 60-65 dB. Conversely, the project would result in a decrease in helistop-related noise exposure for 27 homes (24 within the 60-65 dB CNEL range and 3 within the 65-70 dB CNEL range) and 23 apartment buildings (13 within the 60-65 dB CNEL range and 10 within the 65-70 dB CNEL range). The net change in helistop-related noise exposure due to the project in 2025 would be a noise exposure increase at 13 homes (6 within the 60-65 dB CNEL range and 7 within the 65-70 dB CNEL range), a noise exposure increase at 12 apartment buildings within the 60-65 dB CNEL range, a noise exposure decrease at 6 apartment buildings within the 65-70 dB CNEL range, and a noise exposure increase to the range of 60-65 dB CNEL at Helen McGregor Park.

The project would result in small changes to the potential for sleep disturbance and speech interference in the immediate CHRCO vicinity due to single event helicopter noise exposure. Project-related changes in the maximum number of persons expected to be awakened range from a 1.8% reduction to a 1.7% increase. Project-related changes in the number of minutes per day that the interior noise level could exceed 65 dB, when speech interference could occur, range from a decrease of 1.1 minutes per day to an increase of 1.3 minutes per day.

Since the proposed replacement helistop is located more centrally within the hospital campus and at a higher elevation above the ground than the existing helistop, it is expected that the project would result in fewer potential low frequency or vibration effects at off-campus sensitive uses than the existing helistop. Hospital buildings are of a more substantial construction than many of the older residential buildings in the project area and are less susceptible to the effects of airborne vibration.

Project-related helicopter noise levels described by this helicopter noise assessment report are for helicopter operations related to the existing or proposed replacement CHRCO helistops. There are other existing sources of community noise in the project area that produce noise levels equivalent to or higher than those related to the CHRCO helistop operation. Examples of such sources include traffic on the State Route 24 freeway, Martin Luther King Jr. Way and local streets, BART operations along the SR24 and MLK alignments, sirens and over-flights by fixed-wing aircraft and helicopters that are not related to the CHRCO helistop.

SOURCES CONSULTED

1. United States Code of Federal Regulations (CFR) Title 14, Part 150, *Airport Noise Compatibility Planning*, September 2004.
2. U.S. Department of Transportation, Federal Aviation Administration, *Environmental Desk Reference for Airport Actions*, October 2007.
3. U.S. Department of Transportation, Federal Aviation Administration, *Integrated Noise Model, Version 7.0d*, May 23, 2013.
4. United States Code of Federal Regulations (CFR), Title 14, Part 36, *Noise Standards: Aircraft Type and Airworthiness Certification*, August 2002.
5. U.S. Department of Transportation, Federal Aviation Administration, *Non-Military Helicopter Noise Study*, Report to Congress, December 2004.
6. California Code of Regulations (CCR), Title 21, Subchapter 6, *California Airport Noise Standards*.
7. State of California, Department of Transportation, *California Airport Land Use Planning Handbook*, October 2011.
8. County of Alameda, *Airport Land Use Policy Plan*, Amended in 2002.
9. City of Oakland, *Noise Element of the General Plan*, Public Review Draft, March 2005.

Figure 1: Project Area and Ambient Noise Monitoring Sites

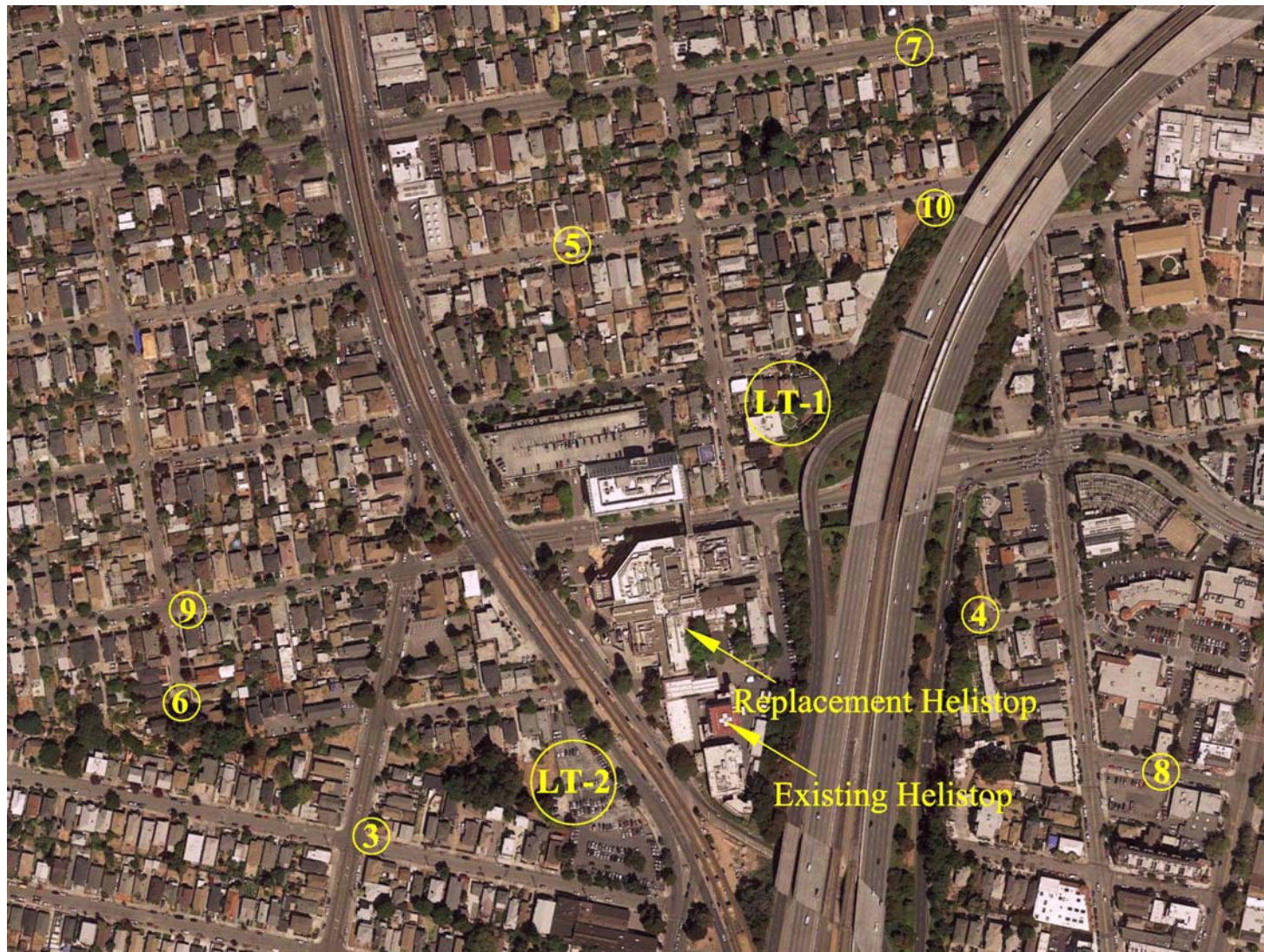


Figure 2: Measured Hourly Ambient Noise Levels

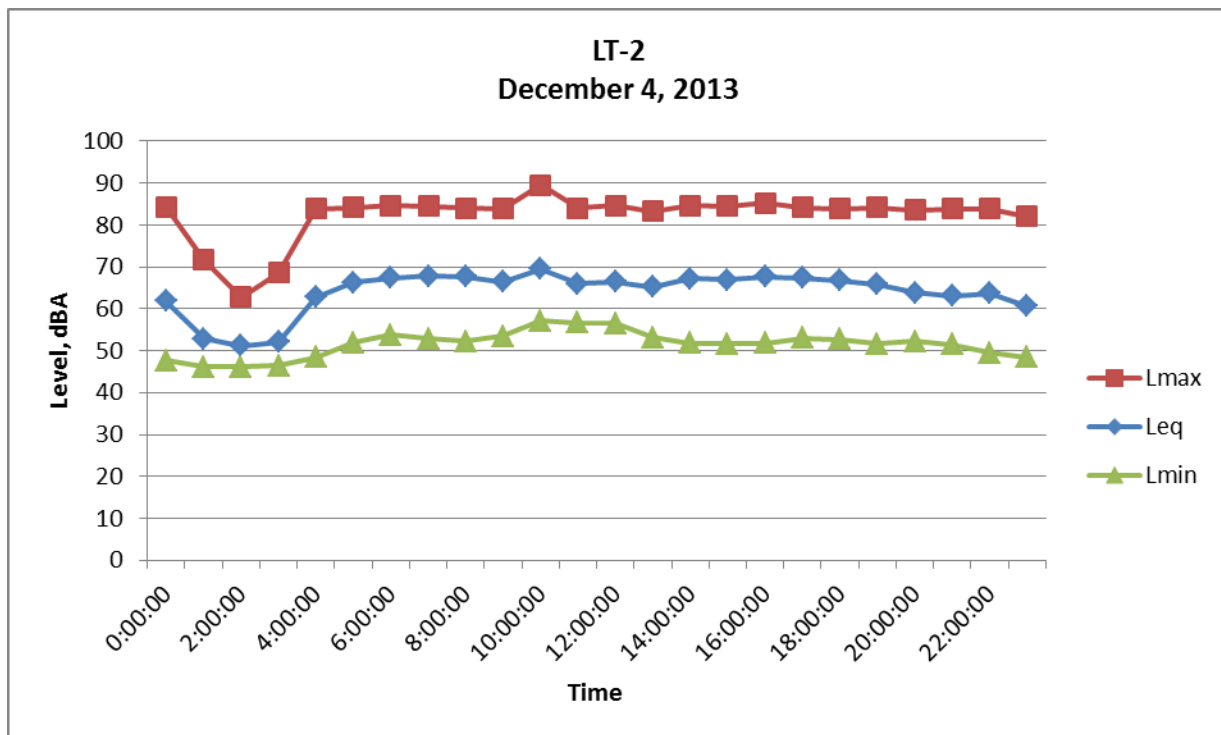
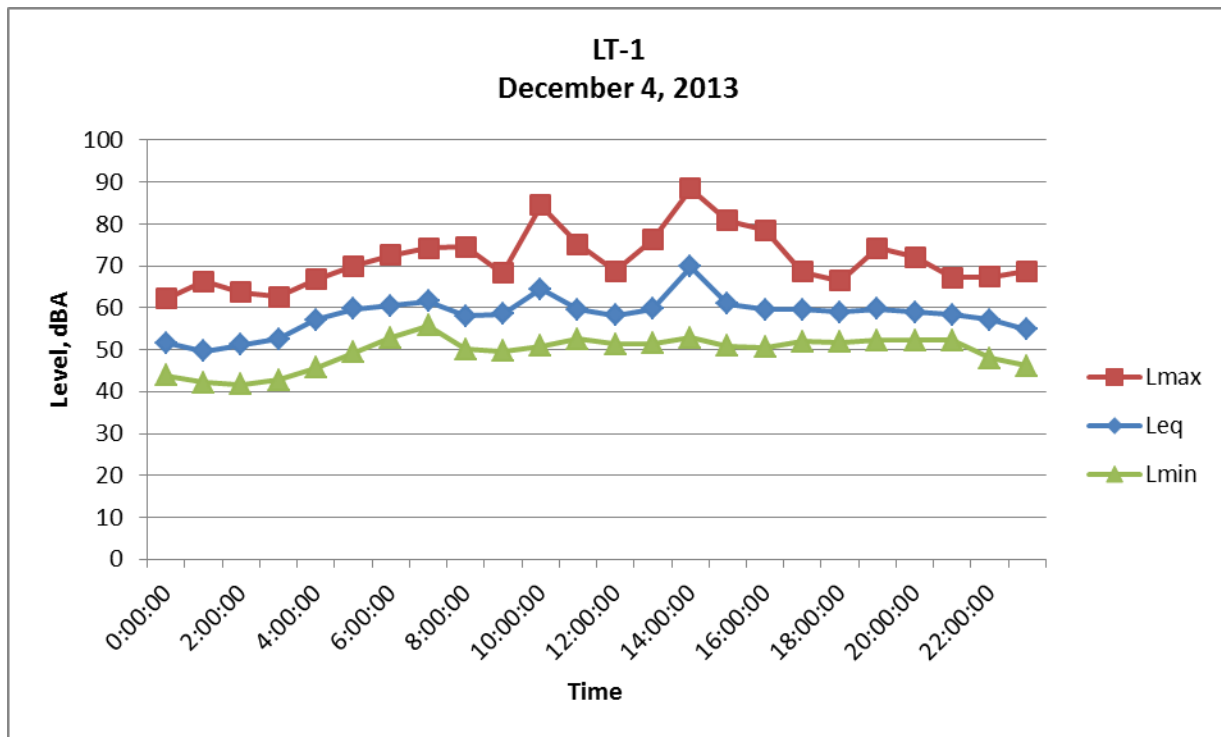


Figure 3: Helicopter Test Flight Noise Monitoring Sites and Noise Impact Assessment Locations

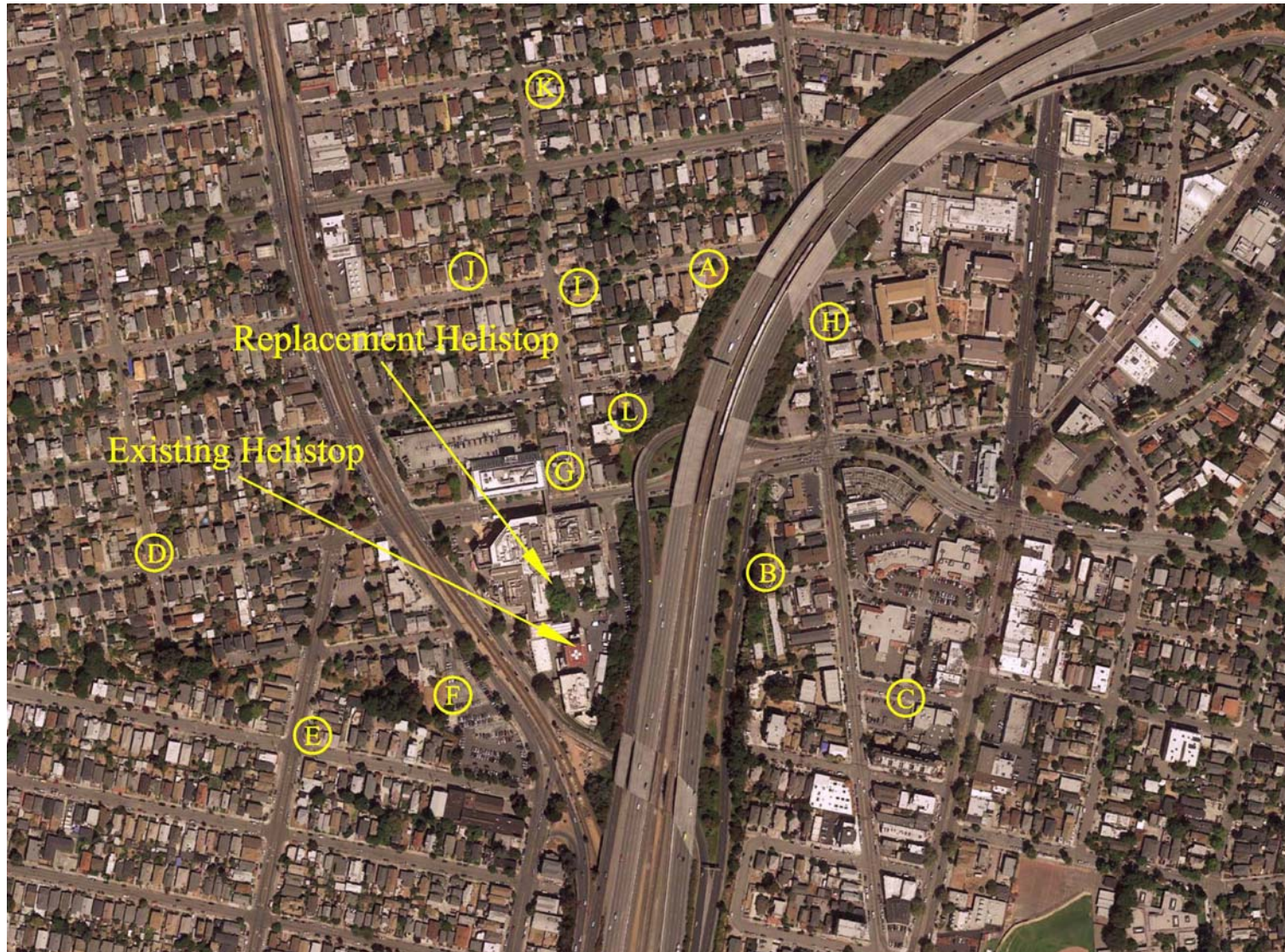


Figure 4: Generalized Helicopter Flight Routes-Existing Helistop

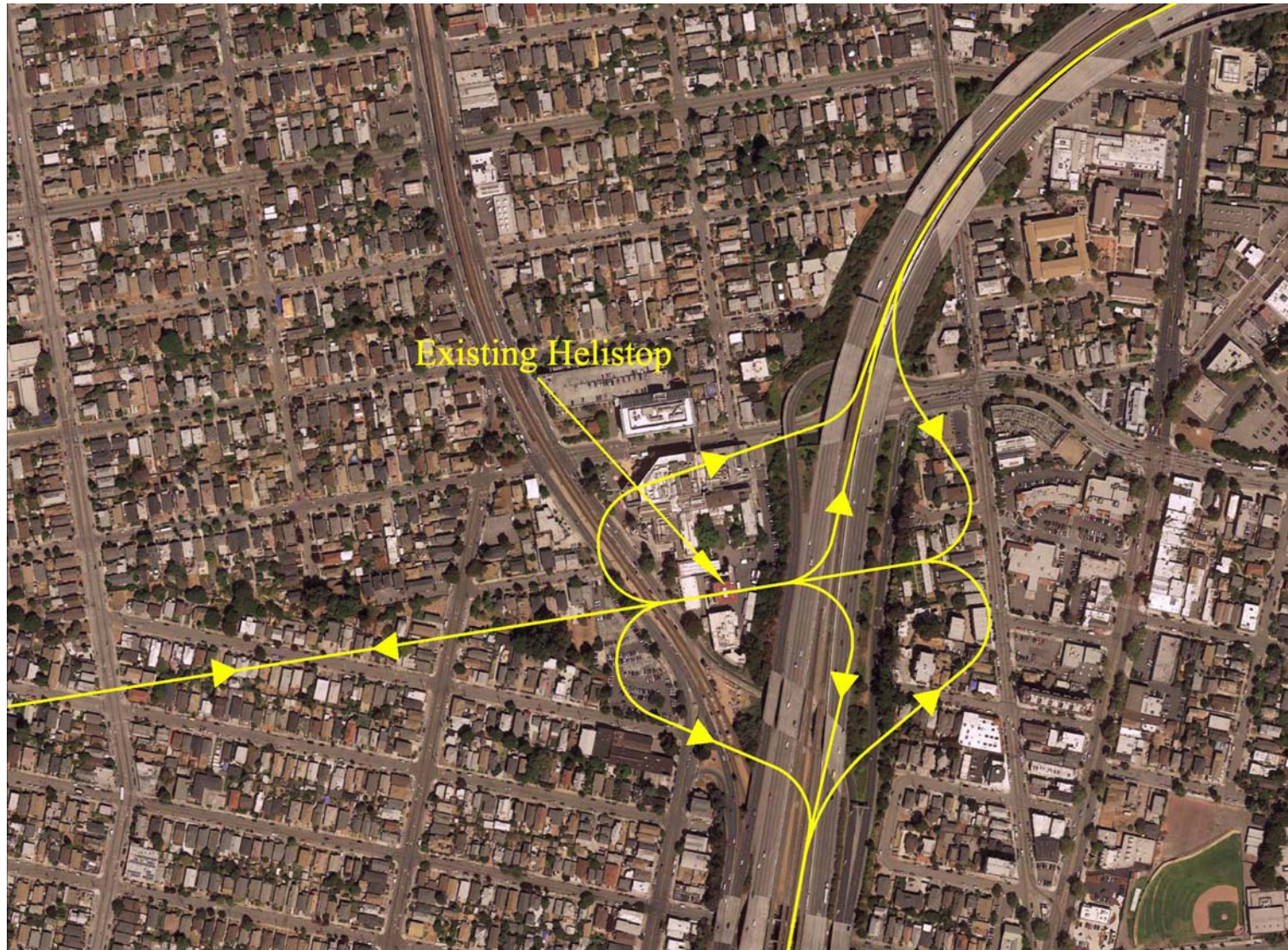


Figure 5: Generalized Helicopter Flight Routes- Replacement Helistop



Figure 6: 2013 CNEL Contours-Existing Helistop

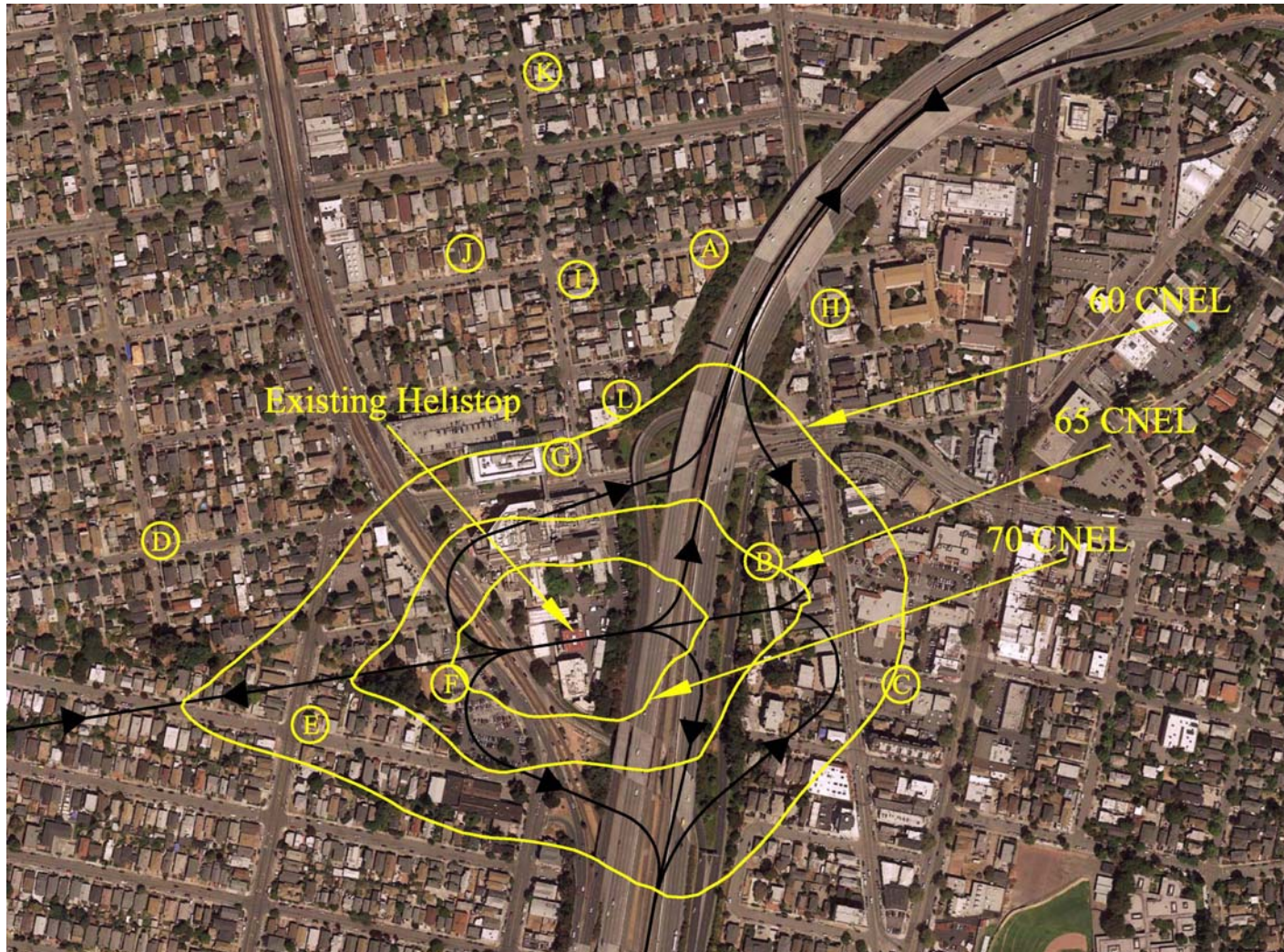


Figure 7: 2025 CNEL Contours-Existing Helistop



Figure 8: 2025 CNEL Contours-Proposed Replacement Helistop



APPENDIX A

ACOUSTICAL TERMINOLOGY

AMBIENT NOISE LEVEL: The composite of noise from all sources near and far. In this context, the ambient noise level constitutes the normal or existing level of environmental noise at a given location.

CNEL: Community Noise Equivalent Level. The average equivalent sound level during a 24-hour day, obtained after addition of approximately five decibels to sound levels in the evening from 7:00 p.m. to 10:00 p.m. and ten decibels to sound levels in the night before 7:00 a.m. and after 10:00 p.m.

DECIBEL, dB: A unit for describing the amplitude of sound, equal to 20 times the logarithm to the base 10 of the ratio of the pressure of the sound measured to the reference pressure, which is 20 micropascals (20 micronewtons per square meter).

DNL/ L_{dn} : Day/Night Average Sound Level. The average equivalent sound level during a 24-hour day, obtained after addition of ten decibels to sound levels in the night after 10:00 p.m. and before 7:00 a.m.

L_{eq} : Equivalent Sound Level. The sound level containing the same total energy as a time varying signal over a given sample period. L_{eq} is typically computed over 1, 8 and 24-hour sample periods.

NOTE: The CNEL and DNL represent daily levels of noise exposure averaged on an annual basis, while L_{eq} represents the average noise exposure for a shorter time period, typically one hour.

L_{max} : The maximum noise level recorded during a noise event.

L_n : The sound level exceeded "n" percent of the time during a sample interval (L_{90} , L_{50} , L_{10} , etc.). For example, L_{10} equals the level exceeded 10 percent of the time.

ACOUSTICAL TERMINOLOGY

**NOISE EXPOSURE
CONTOURS:**

Lines drawn about a noise source indicating constant levels of noise exposure. CNEL and DNL contours are frequently utilized to describe community exposure to noise.

**NOISE LEVEL
REDUCTION (NLR):**

The noise reduction between indoor and outdoor environments or between two rooms that is the numerical difference, in decibels, of the average sound pressure levels in those areas or rooms. A measurement of “noise level reduction” combines the effect of the transmission loss performance of the structure plus the effect of acoustic absorption present in the receiving room.

SEL or SENEL:

Sound Exposure Level or Single Event Noise Exposure Level. The level of noise accumulated during a single noise event, such as an aircraft overflight, with reference to a duration of one second. More specifically, it is the time-integrated A-weighted squared sound pressure for a stated time interval or event, based on a reference pressure of 20 micropascals and a reference duration of one second.

SOUND LEVEL:

The sound pressure level in decibels as measured on a sound level meter using the A-weighting filter network. The A-weighting filter de-emphasizes the very low and very high frequency components of the sound in a manner similar to the response of the human ear and gives good correlation with subjective reactions to noise.

**SOUND TRANSMISSION
CLASS (STC):**

The single-number rating of sound transmission loss for a construction element (window, door, etc.) over a frequency range where speech intelligibility largely occurs.

APPENDIX B

Heliplanners

31110 Avenida Del Reposo, Temecula, California 92591-1718 USA
Phone: (951) 693-5090 Fax: (951) 693-5042 Cell: (951) 203-8900
www.heliplanners.com

Aviation Planning Consultants
Heliport Specialists

May 29, 2014

Mr. Doug Nelson
Director Facilities Development & Construction
Children's Hospital and Research Center Oakland
747 Fifty-Second Street
Oakland, CA 94609-1809

**Subject: Children's Hospital and Research Center Oakland
Helicopter Landings Analysis**

Dear Mr. Nelson:

Per your request, this letter summarizes and evaluates (i) the number of helicopter landings and takeoffs logged at Children's Hospital and Research Center Oakland (CHRCO) over the past four years; (ii) a representative breakdown of helicopter landings and takeoffs within a typical 24-hour period, based on 2012 data; and (iii) certain assumptions that should be used in evaluating helicopter directions of arrival and departure, to and from, the existing CHRCO helistop. We anticipate that this data will be used to support the noise impact analysis related to the relocation of the helistop on the CHRCO campus and as part of the CHRCO Master Plan.

The amount of helicopter activity at CHRCO varies somewhat from year to year, depending upon the timing and occurrence of medical emergencies. Helicopter landing and departure counts per year for the past four full years, as provided by CHRCO, are as follows (each event included in these totals consists of a landing and departure, i.e., one event includes the landing and departure of a helicopter):

2010 = 430 landings/departures
2011 = 555 landings/departures
2012 = 543 landings/departures
2013 = 559 landings/departures

Based on our discussions with CHRCO regarding the Hospital's growth projections, we understand that CHRCO expects an annual growth rate in hospital operations related to patient services, which includes helicopter operations, of 1% per year over the life of its Master Plan. Because helicopter landings and take-offs are related to medical emergencies, the exact number of landings and take-offs cannot be predicted with any certainty. As such, CHRCO has instructed us to assume that the number of helicopter landings and departures in 2013 should be used as the base assumption for calculating the 1% annual growth projection in helicopter operations at the Hospital. The number of helicopter landings and departures in 2013 is 559, which is the highest number of helicopter events over the course of the past four years. Therefore, CHRCO believes this number of events is the most conservative number for purposes of the environmental analysis related to the number of helicopter landings and departures at the Hospital.

Each landing or takeoff is counted as an aircraft operation, meaning that a total of 1,118 helicopter operations occurred at the CHRCO helistop in 2013. As stated above, helicopter use at CHRCO is expected to increase at a rate of approximately 1 percent per year through the completion of Phase

2. The projected number of helicopter operations that would occur in 2020, with implementation of Phase 1 of the project, is 1,199. The projected number of helicopter operations that would occur in 2025, with implementation of Phase 2 of the project, is 1,260. Due to uncertainties regarding the availability of other future Level 1 trauma centers, market factors, and the future state of health care technology, growth projections beyond 2025 are difficult to determine and would be too speculative and unreliable.

Heliplanners has reviewed the detailed summary of calendar year 2012 helicopter landings counts as compiled and provided to us by CHRCO. The data included a breakdown of landings and takeoffs by month as well as by time of day. Based on the data provided, we have determined the following percentage breakdown by time of day per standard time period definitions used in Community Noise Equivalent Level (CNEL) analysis used in California for transportation noise sources.

- | | |
|--|------------|
| • Daytime (7:00 a.m. through 7:00 p.m.) | 58 percent |
| • Evening (7:00 p.m. through 10:00 p.m.) | 18 percent |
| • Nighttime (10:00 p.m. through 7:00 a.m.) | 24 percent |

CHRCO has this time-of-day analysis for landing and takeoffs only for calendar year 2012. The calendar year 2012 time-of-day percentage breakdown of landings is generally representative of any year. There is no reason to assume that the time of day when medical emergencies require helicopter transports would vary significantly from year to year.

We recommend that the noise consultant evaluating noise impacts related to helicopter landings and takeoffs at the Hospital use this data to evaluate single-event noise levels, CNEL contours and any impacts related to speech interference and sleep disturbance.

The three primary regional EMS helicopter operators (REACH Air Medical Services, CALSTAR and Stanford Life Flight) have informed us that they primarily use the Highway 24 corridor for noise abatement purposes for ingress to and egress from CHRCO's existing helistop. However, we have no data regarding percentage breakdown of directions pilots travel along Highway 24 when either approaching or leaving the site. Therefore, for purposes of running the Federal Aviation Administration's Integrated Noise Model (INM), the acoustics consultant should run the model in such a way as to assume that 100 percent of the flights will arrive at and depart from the helistop in each of the four cardinal compass directions (north, east, south and west) to provide a "worst-case" scenario in which noise impacts from 100% of the helicopter traffic related to CHRCO's operations could occur either to the north, south, east, and west of the CHRCO campus.

The existing helistop is 36 feet above grade. The proposed rooftop helistop on the Link Building would be about 45 higher at approximately 81 feet above the grade at the existing helistop. Enroute altitudes to and from the CHRCO area would vary due to many factors (origin and destination points, current weather conditions, terrain along the route, air traffic control instructions, etc.). We can assume that most but not all enroute altitudes would average between 500 and 1,000 feet above the helistop. For purposes of running the INM, the noise consultant should assume a typical altitude of 800 feet above helistop elevation. Helicopter altitudes would vary throughout the approach and departure segments of a flight. Actual descent and ascent profiles would vary somewhat from flight to flight due to many factors. In the absence of easily quantifiable data, the noise consultant should use the standard descent and ascent profiles built into the Integrated Noise Model.

Please contact us should you have questions.

May 29, 2014
Mr. Nelson
Page 3

Heliplanners
Aviation Planning Consultants – Heliport Specialists

Sincerely,



Jeffrey W. Wright

c: Scott Birkey
Frank Penrose
Jeff Fyffe

APPENDIX E

AIR QUALITY AND GREENHOUSE GAS DATA

CHRCO Existing (2013)
Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	692.42	1000sqft	15.90	692,416.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2013
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Vehicle Trips - Trip rate 8.13 based on TIA

Energy Use -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblProjectCharacteristics	OperationalYear	2014	2013
tblVehicleTrips	ST_TR	10.18	8.13

tblVehicleTrips	SU_TR	8.91	8.13
tblVehicleTrips	WD_TR	16.50	8.13

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	0.8000	6.4208	6.3829	9.4000e-003	0.5008	0.3328	0.8336	0.1797	0.3108	0.4905		832.8283	832.8283	0.1172	0.0000	835.2894
2016	8.3317	2.2829	2.5268	4.1600e-003	0.1410	0.1212	0.2622	0.0383	0.1136	0.1518		359.7152	359.7152	0.0426	0.0000	360.6096
Total	9.1317	8.7036	8.9097	0.0136	0.6418	0.4540	1.0958	0.2180	0.4243	0.6423		1,192.5435	1,192.5435	0.1598	0.0000	1,195.8990

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	0.8000	6.4207	6.3829	9.4000e-003	0.5008	0.3328	0.8336	0.1797	0.3108	0.4905		832.8279	832.8279	0.1172	0.0000	835.2889
2016	8.3317	2.2829	2.5268	4.1600e-003	0.1410	0.1212	0.2622	0.0383	0.1136	0.1518		359.7150	359.7150	0.0426	0.0000	360.6094
Total	9.1317	8.7036	8.9097	0.0136	0.6418	0.4540	1.0958	0.2180	0.4243	0.6423		1,192.5429	1,192.5429	0.1598	0.0000	1,195.8983

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

[illegible]

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	3.0660	7.0000e-005	6.7300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0124	0.0124	4.0000e-005	0.0000	0.0132
Energy	0.4066	3.6959	3.1046	0.0222		0.2809	0.2809		0.2809	0.2809		7,586.8083	7,586.8083	0.2382	0.1071	7,625.0122
Mobile	5.0726	12.6093	53.3279	0.0751	5.2717	0.2247	5.4964	1.4146	0.2061	1.6207		6,422.6275	6,422.6275	0.3481	0.0000	6,429.9373
Waste						0.0000	0.0000		0.0000	0.0000		0.0000	1,517.9948	89.7109	0.0000	3,401.9243
Water						0.0000	0.0000		0.0000	0.0000		153.6186	181.1832	2.8381	0.0683	261.9523
Total	8.5451	16.3053	56.4392	0.0973	5.2717	0.5056	5.7773	1.4146	0.4870	1.9016		14,163.0667	15,708.6262	93.1354	0.1754	17,718.8393

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	3.0660	7.0000e-005	6.7300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0124	0.0124	4.0000e-005	0.0000	0.0132
Energy	0.4066	3.6959	3.1046	0.0222		0.2809	0.2809		0.2809	0.2809		7,586.8083	7,586.8083	0.2382	0.1071	7,625.0122
Mobile	5.0726	12.6093	53.3279	0.0751	5.2717	0.2247	5.4964	1.4146	0.2061	1.6207		6,422.6275	6,422.6275	0.3481	0.0000	6,429.9373
Waste						0.0000	0.0000		0.0000	0.0000		0.0000	1,517.9948	89.7109	0.0000	3,401.9243

Water						0.0000	0.0000		0.0000	0.0000		153.6186	181.1832	2.8376	0.0682	261.9084
Total	8.5451	16.3053	56.4392	0.0973	5.2717	0.5056	5.7773	1.4146	0.4870	1.9016		14,163.0667	15,708.6262	93.1349	0.1753	17,718.7953

	ROG	NOx	CO	SO2	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	0.06	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/28/2015	5	20	
2	Site Preparation	Site Preparation	1/29/2015	2/11/2015	5	10	
3	Grading	Grading	2/12/2015	3/25/2015	5	30	
4	Building Construction	Building Construction	3/26/2015	5/18/2016	5	300	
5	Paving	Paving	5/19/2016	6/15/2016	5	20	
6	Architectural Coating	Architectural Coating	6/16/2016	7/13/2016	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,038,624; Non-Residential Outdoor: 346,208 (Architectural

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40

Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	222.00	113.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	44.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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	0.0451	0.4836	0.3607	4.0000e-004		0.0245	0.0245		0.0229	0.0229		37.4413	37.4413	0.0102	0.0000	37.6544
Total	0.0451	0.4836	0.3607	4.0000e-004		0.0245	0.0245		0.0229	0.0229		37.4413	37.4413	0.0102	0.0000	37.6544

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-004	9.2000e-004	8.9400e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2786	1.2786	7.0000e-005	0.0000	1.2801
Total	6.4000e-004	9.2000e-004	8.9400e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2786	1.2786	7.0000e-005	0.0000	1.2801

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	0.0451	0.4836	0.3607	4.0000e-004		0.0245	0.0245		0.0229	0.0229		37.4412	37.4412	0.0102	0.0000	37.6544
Total	0.0451	0.4836	0.3607	4.0000e-004		0.0245	0.0245		0.0229	0.0229		37.4412	37.4412	0.0102	0.0000	37.6544

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-004	9.2000e-004	8.9400e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2786	1.2786	7.0000e-005	0.0000	1.2801
Total	6.4000e-004	9.2000e-004	8.9400e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2786	1.2786	7.0000e-005	0.0000	1.2801

3.3 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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0263	0.2845	0.2132	2.0000e-004		0.0154	0.0154		0.0142	0.0142		18.6506	18.6506	5.5700e-003	0.0000	18.7675
Total	0.0263	0.2845	0.2132	2.0000e-004	0.0903	0.0154	0.1058	0.0497	0.0142	0.0639		18.6506	18.6506	5.5700e-003	0.0000	18.7675

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	5.5000e-004	5.3600e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.2000e-004	2.2000e-004	1.0000e-005	2.2000e-004		0.7671	0.7671	4.0000e-005	0.0000	0.7681
Total	3.8000e-004	5.5000e-004	5.3600e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.2000e-004	2.2000e-004	1.0000e-005	2.2000e-004		0.7671	0.7671	4.0000e-005	0.0000	0.7681

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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0263	0.2845	0.2132	2.0000e-004		0.0154	0.0154		0.0142	0.0142		18.6505	18.6505	5.5700e-003	0.0000	18.7675
Total	0.0263	0.2845	0.2132	2.0000e-004	0.0903	0.0154	0.1058	0.0497	0.0142	0.0639		18.6505	18.6505	5.5700e-003	0.0000	18.7675

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	5.5000e-004	5.3600e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.2000e-004	2.2000e-004	1.0000e-005	2.2000e-004		0.7671	0.7671	4.0000e-005	0.0000	0.7681
Total	3.8000e-004	5.5000e-004	5.3600e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.2000e-004	2.2000e-004	1.0000e-005	2.2000e-004		0.7671	0.7671	4.0000e-005	0.0000	0.7681

3.4 Grading - 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					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1016	1.1857	0.7626	9.3000e-004		0.0570	0.0570		0.0525	0.0525		88.2633	88.2633	0.0264	0.0000	88.8167
Total	0.1016	1.1857	0.7626	9.3000e-004	0.1301	0.0570	0.1871	0.0540	0.0525	0.1064		88.2633	88.2633	0.0264	0.0000	88.8167

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2700e-003	1.8400e-003	0.0179	3.0000e-005	2.7200e-003	2.0000e-005	2.7500e-003	7.2000e-004	2.0000e-005	7.5000e-004		2.5571	2.5571	1.5000e-004	0.0000	2.5603

Total	1.2700e-003	1.8400e-003	0.0179	3.0000e-005	2.7200e-003	2.0000e-005	2.7500e-003	7.2000e-004	2.0000e-005	7.5000e-004		2.5571	2.5571	1.5000e-004	0.0000	2.5603
-------	-------------	-------------	--------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	--	--------	--------	-------------	--------	--------

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					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1016	1.1857	0.7626	9.3000e-004		0.0570	0.0570		0.0525	0.0525		88.2632	88.2632	0.0264	0.0000	88.8166
Total	0.1016	1.1857	0.7626	9.3000e-004	0.1301	0.0570	0.1871	0.0540	0.0525	0.1064		88.2632	88.2632	0.0264	0.0000	88.8166

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2700e-003	1.8400e-003	0.0179	3.0000e-005	2.7200e-003	2.0000e-005	2.7500e-003	7.2000e-004	2.0000e-005	7.5000e-004		2.5571	2.5571	1.5000e-004	0.0000	2.5603
Total	1.2700e-003	1.8400e-003	0.0179	3.0000e-005	2.7200e-003	2.0000e-005	2.7500e-003	7.2000e-004	2.0000e-005	7.5000e-004		2.5571	2.5571	1.5000e-004	0.0000	2.5603

3.5 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3677	3.0180	1.8838	2.7000e-003		0.2127	0.2127		0.2000	0.2000		245.2143	245.2143	0.0615	0.0000	246.5063
Total	0.3677	3.0180	1.8838	2.7000e-003		0.2127	0.2127		0.2000	0.2000		245.2143	245.2143	0.0615	0.0000	246.5063

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1623	1.3088	1.8006	2.7100e-003	0.0731	0.0212	0.0943	0.0210	0.0195	0.0405		248.4820	248.4820	2.2300e-003	0.0000	248.5289
Worker	0.0946	0.1369	1.3298	2.4100e-003	0.2024	1.8000e-003	0.2042	0.0538	1.6400e-003	0.0555		190.1740	190.1740	0.0111	0.0000	190.4071
Total	0.2570	1.4456	3.1304	5.1200e-003	0.2755	0.0230	0.2985	0.0748	0.0212	0.0960		438.6561	438.6561	0.0133	0.0000	438.9360

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	0.3677	3.0180	1.8838	2.7000e-003		0.2127	0.2127		0.2000	0.2000		245.2140	245.2140	0.0615	0.0000	246.5060
Total	0.3677	3.0180	1.8838	2.7000e-003		0.2127	0.2127		0.2000	0.2000		245.2140	245.2140	0.0615	0.0000	246.5060

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1623	1.3088	1.8006	2.7100e-003	0.0731	0.0212	0.0943	0.0210	0.0195	0.0405		248.4820	248.4820	2.2300e-003	0.0000	248.5289
Worker	0.0946	0.1369	1.3298	2.4100e-003	0.2024	1.8000e-003	0.2042	0.0538	1.6400e-003	0.0555		190.1740	190.1740	0.0111	0.0000	190.4071
Total	0.2570	1.4456	3.1304	5.1200e-003	0.2755	0.0230	0.2985	0.0748	0.0212	0.0960		438.6561	438.6561	0.0133	0.0000	438.9360

3.5 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1686	1.4111	0.9161	1.3300e-003		0.0974	0.0974		0.0915	0.0915		119.8660	119.8660	0.0297	0.0000	120.4903
Total	0.1686	1.4111	0.9161	1.3300e-003		0.0974	0.0974		0.0915	0.0915		119.8660	119.8660	0.0297	0.0000	120.4903

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0712	0.5606	0.8274	1.3300e-003	0.0360	8.3600e-003	0.0444	0.0103	7.6900e-003	0.0180		120.9646	120.9646	9.7000e-004	0.0000	120.9850
Worker	0.0417	0.0604	0.5849	1.1900e-003	0.0997	8.3000e-004	0.1005	0.0265	7.6000e-004	0.0273		90.4606	90.4606	4.9800e-003	0.0000	90.5653
Total	0.1129	0.6210	1.4123	2.5200e-003	0.1357	9.1900e-003	0.1449	0.0369	8.4500e-003	0.0453		211.4252	211.4252	5.9500e-003	0.0000	211.5503

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	0.1686	1.4111	0.9161	1.3300e-003		0.0974	0.0974		0.0915	0.0915		119.8659	119.8659	0.0297	0.0000	120.4902
Total	0.1686	1.4111	0.9161	1.3300e-003		0.0974	0.0974		0.0915	0.0915		119.8659	119.8659	0.0297	0.0000	120.4902

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0712	0.5606	0.8274	1.3300e-003	0.0360	8.3600e-003	0.0444	0.0103	7.6900e-003	0.0180		120.9646	120.9646	9.7000e-004	0.0000	120.9850
Worker	0.0417	0.0604	0.5849	1.1900e-003	0.0997	8.3000e-004	0.1005	0.0265	7.6000e-004	0.0273		90.4606	90.4606	4.9800e-003	0.0000	90.5653
Total	0.1129	0.6210	1.4123	2.5200e-003	0.1357	9.1900e-003	0.1449	0.0369	8.4500e-003	0.0453		211.4252	211.4252	5.9500e-003	0.0000	211.5503

3.6 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0209	0.2239	0.1482	2.2000e-004		0.0126	0.0126		0.0116	0.0116		21.0138	21.0138	6.3400e-003	0.0000	21.1469
Paving	0.0000					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0209	0.2239	0.1482	2.2000e-004		0.0126	0.0126		0.0116	0.0116		21.0138	21.0138	6.3400e-003	0.0000	21.1469

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	8.2000e-004	7.9800e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2348	1.2348	7.0000e-005	0.0000	1.2362

Total	5.7000e-004	8.2000e-004	7.9800e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2348	1.2348	7.0000e-005	0.0000	1.2362
-------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	--	--------	--------	-------------	--------	--------

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	0.0209	0.2239	0.1482	2.2000e-004		0.0126	0.0126		0.0116	0.0116		21.0138	21.0138	6.3400e-003	0.0000	21.1469
Paving	0.0000					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0209	0.2239	0.1482	2.2000e-004		0.0126	0.0126		0.0116	0.0116		21.0138	21.0138	6.3400e-003	0.0000	21.1469

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	8.2000e-004	7.9800e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2348	1.2348	7.0000e-005	0.0000	1.2362
Total	5.7000e-004	8.2000e-004	7.9800e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2348	1.2348	7.0000e-005	0.0000	1.2362

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	8.0234					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6800e-003	0.0237	0.0188	3.0000e-005		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		2.5533	2.5533	3.0000e-004	0.0000	2.5596
Total	8.0271	0.0237	0.0188	3.0000e-005		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		2.5533	2.5533	3.0000e-004	0.0000	2.5596

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6700e-003	2.4200e-003	0.0234	5.0000e-005	3.9900e-003	3.0000e-005	4.0200e-003	1.0600e-003	3.0000e-005	1.0900e-003		3.6221	3.6221	2.0000e-004	0.0000	3.6262
Total	1.6700e-003	2.4200e-003	0.0234	5.0000e-005	3.9900e-003	3.0000e-005	4.0200e-003	1.0600e-003	3.0000e-005	1.0900e-003		3.6221	3.6221	2.0000e-004	0.0000	3.6262

Mitigated Construction On-Site

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

Archit. Coating	8.0234					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6800e-003	0.0237	0.0188	3.0000e-005		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		2.5533	2.5533	3.0000e-004	0.0000	2.5596
Total	8.0271	0.0237	0.0188	3.0000e-005		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		2.5533	2.5533	3.0000e-004	0.0000	2.5596

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6700e-003	2.4200e-003	0.0234	5.0000e-005	3.9900e-003	3.0000e-005	4.0200e-003	1.0600e-003	3.0000e-005	1.0900e-003		3.6221	3.6221	2.0000e-004	0.0000	3.6262
Total	1.6700e-003	2.4200e-003	0.0234	5.0000e-005	3.9900e-003	3.0000e-005	4.0200e-003	1.0600e-003	3.0000e-005	1.0900e-003		3.6221	3.6221	2.0000e-004	0.0000	3.6262

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	5.0726	12.6093	53.3279	0.0751	5.2717	0.2247	5.4964	1.4146	0.2061	1.6207		6,422.6275	6,422.6275	0.3481	0.0000	6,429.9373
Unmitigated	5.0726	12.6093	53.3279	0.0751	5.2717	0.2247	5.4964	1.4146	0.2061	1.6207		6,422.6275	6,422.6275	0.3481	0.0000	6,429.9373

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hospital	5,629.34	5,629.34	5629.34	14,177,140	14,177,140
Total	5,629.34	5,629.34	5,629.34	14,177,140	14,177,140

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hospital	9.50	7.30	7.30	64.90	16.10	19.00	73	25	2

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.545356	0.063092	0.174764	0.126482	0.034950	0.005002	0.014783	0.021330	0.002050	0.003330	0.006479	0.000709	0.001672

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000		3,563.3277	3,563.3277	0.1611	0.0333	3,577.0454
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000		3,563.3277	3,563.3277	0.1611	0.0333	3,577.0454
NaturalGas Mitigated	0.4066	3.6959	3.1046	0.0222		0.2809	0.2809		0.2809	0.2809		4,023.4806	4,023.4806	0.0771	0.0738	4,047.9668

NaturalGas Unmitigated	0.4066	3.6959	3.1046	0.0222		0.2809	0.2809		0.2809	0.2809		4,023.4806	4,023.4806	0.0771	0.0738	4,047.9668
---------------------------	--------	--------	--------	--------	--	--------	--------	--	--------	--------	--	------------	------------	--------	--------	------------

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas s 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					
Hospital	7.53972e+007	0.4066	3.6959	3.1046	0.0222		0.2809	0.2809		0.2809	0.2809		4,023.4806	4,023.4806	0.0771	0.0738	4,047.9668
Total		0.4066	3.6959	3.1046	0.0222		0.2809	0.2809		0.2809	0.2809		4,023.4806	4,023.4806	0.0771	0.0738	4,047.9668

Mitigated

	NaturalGas s 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					
Hospital	7.53972e+007	0.4066	3.6959	3.1046	0.0222		0.2809	0.2809		0.2809	0.2809		4,023.4806	4,023.4806	0.0771	0.0738	4,047.9668
Total		0.4066	3.6959	3.1046	0.0222		0.2809	0.2809		0.2809	0.2809		4,023.4806	4,023.4806	0.0771	0.0738	4,047.9668

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hospital	1.22488e+007	3,563.3277	0.1611	0.0333	3,577.0454
Total		3,563.3277	0.1611	0.0333	3,577.0454

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hospital	1.22488e+007	3,563.3277	0.1611	0.0333	3,577.0454
Total		3,563.3277	0.1611	0.0333	3,577.0454

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	3.0660	7.0000e-005	6.7300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0124	0.0124	4.0000e-005	0.0000	0.0132
Unmitigated	3.0660	7.0000e-005	6.7300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0124	0.0124	4.0000e-005	0.0000	0.0132

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	0.3611					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.7042					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.0000e-004	7.0000e-005	6.7300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0124	0.0124	4.0000e-005	0.0000	0.0132
Total	3.0660	7.0000e-005	6.7300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0124	0.0124	4.0000e-005	0.0000	0.0132

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	0.3611					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.7042					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.0000e-004	7.0000e-005	6.7300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0124	0.0124	4.0000e-005	0.0000	0.0132

Total	3.0660	7.0000e-005	6.7300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0124	0.0124	4.0000e-005	0.0000	0.0132
-------	--------	-------------	-------------	--------	--	-------------	-------------	--	-------------	-------------	--	--------	--------	-------------	--------	--------

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	181.1832	2.8376	0.0682	261.9084
Unmitigated	181.1832	2.8381	0.0683	261.9523

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hospital	86.8852 / 16.5496	181.1832	2.8381	0.0683	261.9523
Total		181.1832	2.8381	0.0683	261.9523

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hospital	86.8852 / 16.5496	181.1832	2.8376	0.0682	261.9084
Total		181.1832	2.8376	0.0682	261.9084

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1,517.9948	89.7109	0.0000	3,401.9243
Unmitigated	1,517.9948	89.7109	0.0000	3,401.9243

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
--	----------------	-----------	-----	-----	------

Land Use	tons	MT/yr			
Hospital	7478.14	1,517.9948	89.7109	0.0000	3,401.9243
Total		1,517.9948	89.7109	0.0000	3,401.9243

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hospital	7478.14	1,517.9948	89.7109	0.0000	3,401.9243
Total		1,517.9948	89.7109	0.0000	3,401.9243

9.0 Operational Offroad

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

10.0 Vegetation

CHRCO Existing (2013)

Bay Area AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	699.85	1000sqft	16.07	699,846.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2013
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Vehicle Trips - Trip rate 8.13 based on TIA

Energy Use -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblProjectCharacteristics	OperationalYear	2014	2013
tblVehicleTrips	ST_TR	10.18	8.13

tblVehicleTrips	SU_TR	8.91	8.13
tblVehicleTrips	WD_TR	16.50	8.13

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	6.8665	79.1808	54.6455	0.0782	18.2360	3.8038	21.3257	9.9757	3.4995	12.8183		7,536.9800	7,536.9800	1.9474	0.0000	7,577.8750
2016	811.4986	41.5215	51.5726	0.0782	2.8769	2.1573	5.0342	0.7785	2.0230	2.8015		7,413.0821	7,413.0821	0.7963	0.0000	7,429.8050
Total	818.3651	120.7023	106.2181	0.1564	21.1129	5.9611	26.3599	10.7542	5.5225	15.6198		14,950.0621	14,950.0621	2.7437	0.0000	15,007.6801

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	6.8665	79.1808	54.6455	0.0782	18.2360	3.8038	21.3257	9.9757	3.4995	12.8183		7,536.9800	7,536.9800	1.9474	0.0000	7,577.8750
2016	811.4986	41.5215	51.5726	0.0782	2.8769	2.1573	5.0342	0.7785	2.0230	2.8015		7,413.0821	7,413.0821	0.7963	0.0000	7,429.8050
Total	818.3651	120.7023	106.2181	0.1564	21.1129	5.9611	26.3599	10.7542	5.5225	15.6198		14,950.0621	14,950.0621	2.7437	0.0000	15,007.6800

	ROG	NOx	CO	SO2	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
-------------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

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	16.9841	7.4000e-004	0.0756	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1532	0.1532	4.7000e-004		0.1631
Energy	2.2516	20.4690	17.1940	0.1228		1.5557	1.5557		1.5557	1.5557		24,562.8464	24,562.8464	0.4708	0.4503	24,712.3318
Mobile	30.6331	72.9961	322.1939	0.4147	30.4172	1.2550	31.6722	8.1361	1.1512	9.2873		39,071.1695	39,071.1695	2.1342		39,115.9882
Total	49.8688	93.4658	339.4635	0.5375	30.4172	2.8110	33.2281	8.1361	2.7072	10.8432		63,634.1691	63,634.1691	2.6055	0.4503	63,828.4831

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	16.9841	7.4000e-004	0.0756	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1532	0.1532	4.7000e-004		0.1631
Energy	2.2516	20.4690	17.1940	0.1228		1.5557	1.5557		1.5557	1.5557		24,562.8464	24,562.8464	0.4708	0.4503	24,712.3318
Mobile	30.6331	72.9961	322.1939	0.4147	30.4172	1.2550	31.6722	8.1361	1.1512	9.2873		39,071.1695	39,071.1695	2.1342		39,115.9882
Total	49.8688	93.4658	339.4635	0.5375	30.4172	2.8110	33.2281	8.1361	2.7072	10.8432		63,634.1691	63,634.1691	2.6055	0.4503	63,828.4831

	ROG	NOx	CO	SO2	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
-------------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/28/2015	5	20	
2	Site Preparation	Site Preparation	1/29/2015	2/11/2015	5	10	
3	Grading	Grading	2/12/2015	3/25/2015	5	30	
4	Building Construction	Building Construction	3/26/2015	5/18/2016	5	300	
5	Paving	Paving	5/19/2016	6/15/2016	5	20	
6	Architectural Coating	Architectural Coating	6/16/2016	7/13/2016	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,049,769; Non-Residential Outdoor: 349,923 (Architectural Coating

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	162	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	162	0.38
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	125	0.42
Paving	Rollers	2	8.00	80	0.38

Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	130	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Building Construction	Welders	1	8.00	46	0.45

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
Demolition	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	224.00	115.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	45.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886
Total	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617
Total	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617

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	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886
Total	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617
Total	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617

3.3 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412		4,111.7444	4,111.7444	1.2275		4,137.5225
Total	5.2609	56.8897	42.6318	0.0391	18.0663	3.0883	21.1545	9.9307	2.8412	12.7719		4,111.7444	4,111.7444	1.2275		4,137.5225

Unmitigated Construction Off-Site

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

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0823	0.1207	1.1212	1.9300e-003	0.1698	1.4500e-003	0.1712	0.0450	1.3200e-003	0.0463		167.6267	167.6267	9.8700e-003		167.8340
Total	0.0823	0.1207	1.1212	1.9300e-003	0.1698	1.4500e-003	0.1712	0.0450	1.3200e-003	0.0463		167.6267	167.6267	9.8700e-003		167.8340

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412		4,111.7444	4,111.7444	1.2275		4,137.5224
Total	5.2609	56.8897	42.6318	0.0391	18.0663	3.0883	21.1545	9.9307	2.8412	12.7719		4,111.7444	4,111.7444	1.2275		4,137.5224

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0823	0.1207	1.1212	1.9300e-003	0.1698	1.4500e-003	0.1712	0.0450	1.3200e-003	0.0463		167.6267	167.6267	9.8700e-003		167.8340

Total	0.0823	0.1207	1.1212	1.9300e-003	0.1698	1.4500e-003	0.1712	0.0450	1.3200e-003	0.0463		167.6267	167.6267	9.8700e-003		167.8340
-------	--------	--------	--------	-------------	--------	-------------	--------	--------	-------------	--------	--	----------	----------	-------------	--	----------

3.4 Grading - 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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.7751	79.0467	50.8400	0.0618		3.8022	3.8022		3.4980	3.4980		6,486.2433	6,486.2433	1.9364		6,526.9080
Total	6.7751	79.0467	50.8400	0.0618	8.6733	3.8022	12.4755	3.5965	3.4980	7.0945		6,486.2433	6,486.2433	1.9364		6,526.9080

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0914	0.1341	1.2457	2.1400e-003	0.1886	1.6100e-003	0.1902	0.0500	1.4700e-003	0.0515		186.2519	186.2519	0.0110		186.4822
Total	0.0914	0.1341	1.2457	2.1400e-003	0.1886	1.6100e-003	0.1902	0.0500	1.4700e-003	0.0515		186.2519	186.2519	0.0110		186.4822

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.7751	79.0467	50.8400	0.0618		3.8022	3.8022		3.4980	3.4980		6,486.2433	6,486.2433	1.9364		6,526.9080
Total	6.7751	79.0467	50.8400	0.0618	8.6733	3.8022	12.4755	3.5965	3.4980	7.0945		6,486.2433	6,486.2433	1.9364		6,526.9080

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0914	0.1341	1.2457	2.1400e-003	0.1886	1.6100e-003	0.1902	0.0500	1.4700e-003	0.0515		186.2519	186.2519	0.0110		186.4822
Total	0.0914	0.1341	1.2457	2.1400e-003	0.1886	1.6100e-003	0.1902	0.0500	1.4700e-003	0.0515		186.2519	186.2519	0.0110		186.4822

3.5 Building Construction - 2015

Unmitigated Construction On-Site

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

Off-Road	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.8548	13.4195	21.9487	0.0274	0.7645	0.2164	0.9808	0.2183	0.1989	0.4172		2,761.3816	2,761.3816	0.0253		2,761.9120
Worker	1.0238	1.5022	13.9523	0.0240	2.1124	0.0180	2.1304	0.5603	0.0165	0.5767		2,086.0213	2,086.0213	0.1228		2,088.6007
Total	2.8785	14.9217	35.9010	0.0514	2.8768	0.2344	3.1113	0.7785	0.2154	0.9939		4,847.4029	4,847.4029	0.1481		4,850.5127

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	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.8548	13.4195	21.9487	0.0274	0.7645	0.2164	0.9808	0.2183	0.1989	0.4172		2,761.3816	2,761.3816	0.0253		2,761.9120
Worker	1.0238	1.5022	13.9523	0.0240	2.1124	0.0180	2.1304	0.5603	0.0165	0.5767		2,086.0213	2,086.0213	0.1228		2,088.6007
Total	2.8785	14.9217	35.9010	0.0514	2.8768	0.2344	3.1113	0.7785	0.2154	0.9939		4,847.4029	4,847.4029	0.1481		4,850.5127

3.5 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890

Unmitigated Construction Off-Site

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

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.6500	11.6692	20.6409	0.0274	0.7645	0.1729	0.9374	0.2183	0.1590	0.3773		2,729.2295	2,729.2295	0.0223		2,729.6984
Worker	0.9136	1.3460	12.4251	0.0240	2.1124	0.0170	2.1294	0.5603	0.0156	0.5758		2,014.5662	2,014.5662	0.1120		2,016.9176
Total	2.5635	13.0152	33.0659	0.0513	2.8769	0.1899	3.0668	0.7785	0.1745	0.9531		4,743.7957	4,743.7957	0.1343		4,746.6160

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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.6500	11.6692	20.6409	0.0274	0.7645	0.1729	0.9374	0.2183	0.1590	0.3773		2,729.2295	2,729.2295	0.0223		2,729.6984
Worker	0.9136	1.3460	12.4251	0.0240	2.1124	0.0170	2.1294	0.5603	0.0156	0.5758		2,014.5662	2,014.5662	0.1120		2,016.9176

Total	2.5635	13.0152	33.0659	0.0513	2.8769	0.1899	3.0668	0.7785	0.1745	0.9531		4,743.7957	4,743.7957	0.1343		4,746.6160
-------	--------	---------	---------	--------	--------	--------	--------	--------	--------	--------	--	------------	------------	--------	--	------------

3.6 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0612	0.0901	0.8320	1.6100e-003	0.1415	1.1400e-003	0.1426	0.0375	1.0400e-003	0.0386		134.9040	134.9040	7.5000e-003		135.0615
Total	0.0612	0.0901	0.8320	1.6100e-003	0.1415	1.1400e-003	0.1426	0.0375	1.0400e-003	0.0386		134.9040	134.9040	7.5000e-003		135.0615

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	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0612	0.0901	0.8320	1.6100e-003	0.1415	1.1400e-003	0.1426	0.0375	1.0400e-003	0.0386		134.9040	134.9040	7.5000e-003		135.0615
Total	0.0612	0.0901	0.8320	1.6100e-003	0.1415	1.1400e-003	0.1426	0.0375	1.0400e-003	0.0386		134.9040	134.9040	7.5000e-003		135.0615

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

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

Archit. Coating	810.9466					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	811.3150	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1835	0.2704	2.4961	4.8200e-003	0.4244	3.4100e-003	0.4278	0.1126	3.1300e-003	0.1157		404.7120	404.7120	0.0225		405.1843
Total	0.1835	0.2704	2.4961	4.8200e-003	0.4244	3.4100e-003	0.4278	0.1126	3.1300e-003	0.1157		404.7120	404.7120	0.0225		405.1843

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	810.9466					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	811.3150	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1835	0.2704	2.4961	4.8200e-003	0.4244	3.4100e-003	0.4278	0.1126	3.1300e-003	0.1157		404.7120	404.7120	0.0225		405.1843
Total	0.1835	0.2704	2.4961	4.8200e-003	0.4244	3.4100e-003	0.4278	0.1126	3.1300e-003	0.1157		404.7120	404.7120	0.0225		405.1843

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	30.6331	72.9961	322.1939	0.4147	30.4172	1.2550	31.6722	8.1361	1.1512	9.2873		39,071.1695	39,071.1695	2.1342		39,115.9882
Unmitigated	30.6331	72.9961	322.1939	0.4147	30.4172	1.2550	31.6722	8.1361	1.1512	9.2873		39,071.1695	39,071.1695	2.1342		39,115.9882

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT

Hospital	5,689.75	5,689.75	5689.75	14,329,269	14,329,269
Total	5,689.75	5,689.75	5,689.75	14,329,269	14,329,269

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hospital	9.50	7.30	7.30	64.90	16.10	19.00	73	25	2

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.545356	0.063092	0.174764	0.126482	0.034950	0.005002	0.014783	0.021330	0.002050	0.003330	0.006479	0.000709	0.001672

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: Y

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	2.2516	20.4690	17.1940	0.1228		1.5557	1.5557		1.5557	1.5557		24,562.8464	24,562.8464	0.4708	0.4503	24,712.3318
NaturalGas Unmitigated	2.2516	20.4690	17.1940	0.1228		1.5557	1.5557		1.5557	1.5557		24,562.8464	24,562.8464	0.4708	0.4503	24,712.3318

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					
Hospital	208784	2.2516	20.4690	17.1940	0.1228		1.5557	1.5557		1.5557	1.5557		24,562.8464	24,562.8464	0.4708	0.4503	24,712.3318
Total		2.2516	20.4690	17.1940	0.1228		1.5557	1.5557		1.5557	1.5557		24,562.8464	24,562.8464	0.4708	0.4503	24,712.3318

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					
Hospital	208.784	2.2516	20.4690	17.1940	0.1228		1.5557	1.5557		1.5557	1.5557		24,562.8464	24,562.8464	0.4708	0.4503	24,712.3318
Total		2.2516	20.4690	17.1940	0.1228		1.5557	1.5557		1.5557	1.5557		24,562.8464	24,562.8464	0.4708	0.4503	24,712.3318

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	16.9841	7.4000e-004	0.0756	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1532	0.1532	4.7000e-004		0.1631

Unmitigated	16.9841	7.4000e-004	0.0756	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1532	0.1532	4.7000e-004		0.1631
-------------	---------	-------------	--------	-------------	--	-------------	-------------	--	-------------	-------------	--	--------	--------	-------------	--	--------

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	1.9996					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.9767					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.8100e-003	7.4000e-004	0.0756	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1532	0.1532	4.7000e-004		0.1631
Total	16.9841	7.4000e-004	0.0756	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1532	0.1532	4.7000e-004		0.1631

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	1.9996					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.9767					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.8100e-003	7.4000e-004	0.0756	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1532	0.1532	4.7000e-004		0.1631
Total	16.9841	7.4000e-004	0.0756	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1532	0.1532	4.7000e-004		0.1631

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
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Vegetation

CHRCO Existing (2013)
Bay Area AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	692.42	1000sqft	15.90	692,416.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2013
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Vehicle Trips - Trip rate 8.13 based on TIA

Energy Use -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblProjectCharacteristics	OperationalYear	2014	2013
tblVehicleTrips	ST_TR	10.18	8.13

tblVehicleTrips	SU_TR	8.91	8.13
tblVehicleTrips	WD_TR	16.50	8.13

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	6.8654	79.1551	52.1058	0.0796	18.2360	3.8038	21.3257	9.9757	3.4995	12.8183		7,664.1150	7,664.1150	1.9474	0.0000	7,705.0100
2016	802.8840	40.5355	44.1734	0.0795	2.8447	2.1524	4.9971	0.7697	2.0185	2.7882		7,535.6009	7,535.6009	0.7944	0.0000	7,552.2837
Total	809.7494	119.6906	96.2792	0.1592	21.0807	5.9562	26.3229	10.7454	5.5180	15.6065		15,199.7159	15,199.7159	2.7418	0.0000	15,257.2937

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	6.8654	79.1551	52.1058	0.0796	18.2360	3.8038	21.3257	9.9757	3.4995	12.8183		7,664.1150	7,664.1150	1.9474	0.0000	7,705.0100
2016	802.8840	40.5355	44.1734	0.0795	2.8447	2.1524	4.9971	0.7697	2.0185	2.7882		7,535.6009	7,535.6009	0.7944	0.0000	7,552.2837
Total	809.7494	119.6906	96.2792	0.1592	21.0807	5.9562	26.3229	10.7454	5.5180	15.6065		15,199.7159	15,199.7159	2.7418	0.0000	15,257.2937

	ROG	NOx	CO	SO2	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
-------------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

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	16.8038	7.3000e-004	0.0748	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1515	0.1515	4.7000e-004		0.1614
Energy	2.2277	20.2517	17.0115	0.1215		1.5391	1.5391		1.5391	1.5391		24,302.0720	24,302.0720	0.4658	0.4455	24,449.9703
Mobile	28.3298	64.9199	287.4204	0.4368	30.0942	1.2316	31.3258	8.0497	1.1297	9.1794		41,178.1167	41,178.1167	2.1102		41,222.4300
Total	47.3613	85.1724	304.5066	0.5583	30.0942	2.7710	32.8653	8.0497	2.6691	10.7188		65,480.3402	65,480.3402	2.5764	0.4455	65,672.5617

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	16.8038	7.3000e-004	0.0748	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1515	0.1515	4.7000e-004		0.1614
Energy	2.2277	20.2517	17.0115	0.1215		1.5391	1.5391		1.5391	1.5391		24,302.0720	24,302.0720	0.4658	0.4455	24,449.9703
Mobile	28.3298	64.9199	287.4204	0.4368	30.0942	1.2316	31.3258	8.0497	1.1297	9.1794		41,178.1167	41,178.1167	2.1102		41,222.4300
Total	47.3613	85.1724	304.5066	0.5583	30.0942	2.7710	32.8653	8.0497	2.6691	10.7188		65,480.3402	65,480.3402	2.5764	0.4455	65,672.5617

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

Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-------------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/28/2015	5	20	
2	Site Preparation	Site Preparation	1/29/2015	2/11/2015	5	10	
3	Grading	Grading	2/12/2015	3/25/2015	5	30	
4	Building Construction	Building Construction	3/26/2015	5/18/2016	5	300	
5	Paving	Paving	5/19/2016	6/15/2016	5	20	
6	Architectural Coating	Architectural Coating	6/16/2016	7/13/2016	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,038,624; Non-Residential Outdoor: 346,208 (Architectural Coating

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48

Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	222.00	113.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	44.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886
Total	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501
Total	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501

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	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886
Total	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501
Total	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501

3.3 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412		4,111.7444	4,111.7444	1.2275		4,137.5225
Total	5.2609	56.8897	42.6318	0.0391	18.0663	3.0883	21.1545	9.9307	2.8412	12.7719		4,111.7444	4,111.7444	1.2275		4,137.5225

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
--	-----	-----	----	-----	---------------	--------------	------------	----------------	---------------	-------------	----------	-----------	-----------	-----	-----	------

Total	0.0812	0.0976	1.1392	2.0900e-003	0.1698	1.4500e-003	0.1712	0.0450	1.3200e-003	0.0463		181.6529	181.6529	9.8700e-003		181.8602
-------	--------	--------	--------	-------------	--------	-------------	--------	--------	-------------	--------	--	----------	----------	-------------	--	----------

3.4 Grading - 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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.7751	79.0467	50.8400	0.0618		3.8022	3.8022		3.4980	3.4980		6,486.2433	6,486.2433	1.9364		6,526.9080
Total	6.7751	79.0467	50.8400	0.0618	8.6733	3.8022	12.4755	3.5965	3.4980	7.0945		6,486.2433	6,486.2433	1.9364		6,526.9080

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0903	0.1084	1.2658	2.3200e-003	0.1886	1.6100e-003	0.1902	0.0500	1.4700e-003	0.0515		201.8366	201.8366	0.0110		202.0669
Total	0.0903	0.1084	1.2658	2.3200e-003	0.1886	1.6100e-003	0.1902	0.0500	1.4700e-003	0.0515		201.8366	201.8366	0.0110		202.0669

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.7751	79.0467	50.8400	0.0618		3.8022	3.8022		3.4980	3.4980		6,486.2433	6,486.2433	1.9364		6,526.9080
Total	6.7751	79.0467	50.8400	0.0618	8.6733	3.8022	12.4755	3.5965	3.4980	7.0945		6,486.2433	6,486.2433	1.9364		6,526.9080

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0903	0.1084	1.2658	2.3200e-003	0.1886	1.6100e-003	0.1902	0.0500	1.4700e-003	0.0515		201.8366	201.8366	0.0110		202.0669
Total	0.0903	0.1084	1.2658	2.3200e-003	0.1886	1.6100e-003	0.1902	0.0500	1.4700e-003	0.0515		201.8366	201.8366	0.0110		202.0669

3.5 Building Construction - 2015

Unmitigated Construction On-Site

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

Off-Road	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
												1				
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
												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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.4339	12.5883	14.2219	0.0270	0.7512	0.2101	0.9612	0.2145	0.1931	0.4076		2,734.1522	2,734.1522	0.0243		2,734.6616
Worker	1.0020	1.2036	14.0505	0.0258	2.0935	0.0179	2.1114	0.5553	0.0163	0.5716		2,240.3857	2,240.3857	0.1217		2,242.9421
												7				
Total	2.4359	13.7919	28.2724	0.0528	2.8447	0.2279	3.0726	0.7697	0.2094	0.9791		4,974.5379	4,974.5379	0.1460		4,977.6037
												9				

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	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
												1				
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
												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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.4339	12.5883	14.2219	0.0270	0.7512	0.2101	0.9612	0.2145	0.1931	0.4076		2,734.1522	2,734.1522	0.0243		2,734.6616
Worker	1.0020	1.2036	14.0505	0.0258	2.0935	0.0179	2.1114	0.5553	0.0163	0.5716		2,240.3857	2,240.3857	0.1217		2,242.9421
Total	2.4359	13.7919	28.2724	0.0528	2.8447	0.2279	3.0726	0.7697	0.2094	0.9791		4,974.5379	4,974.5379	0.1460		4,977.6037

3.5 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890

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
--	-----	-----	----	-----	---------------	--------------	------------	----------------	---------------	-------------	----------	-----------	-----------	-----	-----	------

Total	2.1782	12.0292	25.6668	0.0527	2.8447	0.1850	3.0297	0.7697	0.1700	0.9398		4,866.3145	4,866.3145	0.1324		4,869.0946
-------	--------	---------	---------	--------	--------	--------	--------	--------	--------	--------	--	------------	------------	--------	--	------------

3.6 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0609	0.0729	0.8514	1.7400e-003	0.1415	1.1400e-003	0.1426	0.0375	1.0400e-003	0.0386		146.2084	146.2084	7.5000e-003		146.3659
Total	0.0609	0.0729	0.8514	1.7400e-003	0.1415	1.1400e-003	0.1426	0.0375	1.0400e-003	0.0386		146.2084	146.2084	7.5000e-003		146.3659

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	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0609	0.0729	0.8514	1.7400e-003	0.1415	1.1400e-003	0.1426	0.0375	1.0400e-003	0.0386		146.2084	146.2084	7.5000e-003		146.3659
Total	0.0609	0.0729	0.8514	1.7400e-003	0.1415	1.1400e-003	0.1426	0.0375	1.0400e-003	0.0386		146.2084	146.2084	7.5000e-003		146.3659

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

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

Archit. Coating	802.3370					0.0000	0.0000		0.0000	0.0000		0.0000			0.0000	
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	802.7055	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1785	0.2137	2.4974	5.1100e-003	0.4149	3.3400e-003	0.4183	0.1101	3.0600e-003	0.1131		428.8781	428.8781	0.0220		429.3400
Total	0.1785	0.2137	2.4974	5.1100e-003	0.4149	3.3400e-003	0.4183	0.1101	3.0600e-003	0.1131		428.8781	428.8781	0.0220		429.3400

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	802.3370					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	802.7055	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1785	0.2137	2.4974	5.1100e-003	0.4149	3.3400e-003	0.4183	0.1101	3.0600e-003	0.1131		428.8781	428.8781	0.0220		429.3400
Total	0.1785	0.2137	2.4974	5.1100e-003	0.4149	3.3400e-003	0.4183	0.1101	3.0600e-003	0.1131		428.8781	428.8781	0.0220		429.3400

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	28.3298	64.9199	287.4204	0.4368	30.0942	1.2316	31.3258	8.0497	1.1297	9.1794		41,178.1167	41,178.1167	2.1102		41,222.4300
Unmitigated	28.3298	64.9199	287.4204	0.4368	30.0942	1.2316	31.3258	8.0497	1.1297	9.1794		41,178.1167	41,178.1167	2.1102		41,222.4300

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT

Hospital	5,629.34	5,629.34	5629.34	14,177,140	14,177,140
Total	5,629.34	5,629.34	5,629.34	14,177,140	14,177,140

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hospital	9.50	7.30	7.30	64.90	16.10	19.00	73	25	2

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.545356	0.063092	0.174764	0.126482	0.034950	0.005002	0.014783	0.021330	0.002050	0.003330	0.006479	0.000709	0.001672

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: Y

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	2.2277	20.2517	17.0115	0.1215		1.5391	1.5391		1.5391	1.5391		24,302.0720	24,302.0720	0.4658	0.4455	24,449.9703
NaturalGas Unmitigated	2.2277	20.2517	17.0115	0.1215		1.5391	1.5391		1.5391	1.5391		24,302.0720	24,302.0720	0.4658	0.4455	24,449.9703

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					
Hospital	206568	2.2277	20.2517	17.0115	0.1215		1.5391	1.5391		1.5391	1.5391		24,302.0720	24,302.0720	0.4658	0.4455	24,449.9703
Total		2.2277	20.2517	17.0115	0.1215		1.5391	1.5391		1.5391	1.5391		24,302.0720	24,302.0720	0.4658	0.4455	24,449.9703

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					
Hospital	206.568	2.2277	20.2517	17.0115	0.1215		1.5391	1.5391		1.5391	1.5391		24,302.0720	24,302.0720	0.4658	0.4455	24,449.9703
Total		2.2277	20.2517	17.0115	0.1215		1.5391	1.5391		1.5391	1.5391		24,302.0720	24,302.0720	0.4658	0.4455	24,449.9703

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	16.8038	7.3000e-004	0.0748	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1515	0.1515	4.7000e-004		0.1614

Unmitigated	16.8038	7.3000e-004	0.0748	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1515	0.1515	4.7000e-004		0.1614
-------------	---------	-------------	--------	-------------	--	-------------	-------------	--	-------------	-------------	--	--------	--------	-------------	--	--------

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	1.9784					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.8177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.7300e-003	7.3000e-004	0.0748	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1515	0.1515	4.7000e-004		0.1614
Total	16.8038	7.3000e-004	0.0748	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1515	0.1515	4.7000e-004		0.1614

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	1.9784					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.8177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.7300e-003	7.3000e-004	0.0748	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1515	0.1515	4.7000e-004		0.1614
Total	16.8038	7.3000e-004	0.0748	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1515	0.1515	4.7000e-004		0.1614

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
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Vegetation

Phase 2 Buildout -- Medical Offices
Bay Area AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	82.10	1000sqft	1.88	82,097.00	0
Office Park	31.30	1000sqft	0.72	31,300.00	0
Unenclosed Parking with Elevator	121.90	1000sqft	2.80	121,901.00	0
Apartments Mid Rise	16.00	Dwelling Unit	0.42	16,000.00	46

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5	Operational Year	2024		
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - PG&E CO2 Intensity factor for 2024 = 290.0

Land Use - Medical offices

Vehicle Trips - Apartments (represnt the family house) = 0 trip generation (trips accounted for in medical office and offic park generation), Med office trip gen = 240 trips (20 per 1k sq ft), Office trips 210 total or 10 per 1k sq ft

Energy Mitigation - 20 percent increase in energy efficiency and lighting (LEED certified project)

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00

tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblLandUse	LandUseSquareFeet	82,100.00	82,097.00
tblLandUse	LandUseSquareFeet	121,900.00	121,901.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	OperationalYear	2014	2024
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	8.96	2.90
tblVehicleTrips	ST_TR	1.64	10.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	1.55	2.90
tblVehicleTrips	SU_TR	0.76	10.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	36.13	2.90
tblVehicleTrips	WD_TR	11.42	10.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	5.3432	57.0104	43.7529	0.0470	18.2360	3.0897	21.3257	9.9757	2.8425	12.8183		4,572.0046	4,572.0046	1.2374	0.0000	4,597.9899
2016	298.1306	33.1601	31.1775	0.0469	1.1995	2.0351	3.2346	0.3235	1.9106	2.2342		4,508.9499	4,508.9499	0.7193	0.0000	4,524.0549
Total	303.4738	90.1704	74.9304	0.0939	19.4355	5.1248	24.5603	10.2992	4.7532	15.0524		9,080.9545	9,080.9545	1.9567	0.0000	9,122.0448

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	5.3432	57.0104	43.7529	0.0470	18.2360	3.0897	21.3257	9.9757	2.8425	12.8183		4,572.0046	4,572.0046	1.2374	0.0000	4,597.9899
2016	298.1306	33.1601	31.1775	0.0469	1.1995	2.0351	3.2346	0.3235	1.9106	2.2342		4,508.9499	4,508.9499	0.7193	0.0000	4,524.0549
Total	303.4738	90.1704	74.9304	0.0939	19.4355	5.1248	24.5603	10.2992	4.7532	15.0524		9,080.9545	9,080.9545	1.9567	0.0000	9,122.0448

	ROG	NOx	CO	SO2	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

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	13.2904	0.3141	21.9009	0.0473		3.2152	3.2152		3.2150	3.2150		219.8401	650.0988	1.6345	0.0112	687.9031
Energy	0.0715	0.6473	0.5289	3.9000e-003		0.0494	0.0494		0.0494	0.0494		779.4949	779.4949	0.0149	0.0143	784.2388
Mobile	1.3419	2.5199	13.4165	0.0366	2.6561	0.0468	2.7029	0.7105	0.0432	0.7537		2,699.2908	2,699.2908	0.0880		2,701.1388
Total	14.7037	3.4813	35.8463	0.0877	2.6561	3.3113	5.9674	0.7105	3.3076	4.0181		3,698.6258	4,128.8845	1.7375	0.0255	4,173.2806

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	13.2904	0.3141	21.9009	0.0473		3.2152	3.2152		3.2150	3.2150		219.8401	650.0988	1.6345	0.0112	687.9031
Energy	0.0580	0.5256	0.4291	3.1700e-003		0.0401	0.0401		0.0401	0.0401		633.0161	633.0161	0.0121	0.0116	636.8685
Mobile	1.3419	2.5199	13.4165	0.0366	2.6561	0.0468	2.7029	0.7105	0.0432	0.7537		2,699.2908	2,699.2908	0.0880		2,701.1388
Total	14.6903	3.3596	35.7465	0.0870	2.6561	3.3020	5.9581	0.7105	3.2983	4.0088		3,552.1471	3,982.4058	1.7347	0.0228	4,025.9104

	ROG	NOx	CO	SO2	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	0.09	3.50	0.28	0.83	0.00	0.28	0.16	0.00	0.28	0.23	0.00	3.96	3.55	0.16	10.51	3.53

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/28/2015	5	20	
2	Site Preparation	Site Preparation	1/29/2015	2/11/2015	5	10	
3	Grading	Grading	2/12/2015	3/11/2015	5	20	
4	Building Construction	Building Construction	3/12/2015	1/27/2016	5	230	
5	Paving	Paving	1/28/2016	2/24/2016	5	20	
6	Architectural Coating	Architectural Coating	2/25/2016	3/23/2016	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 32,400; Residential Outdoor: 10,800; Non-Residential Indoor: 352,947; Non-Residential Outdoor: 117,649

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Building Construction	9	99.00	40.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886
Total	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617
Total	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617

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	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886
Total	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617
Total	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617

3.3 Site Preparation - 2015

Unmitigated Construction On-Site

Off-Road	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412		4,111.7444	4,111.7444	1.2275		4,137.5224
Total	5.2609	56.8897	42.6318	0.0391	18.0663	3.0883	21.1545	9.9307	2.8412	12.7719		4,111.7444	4,111.7444	1.2275		4,137.5224

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0823	0.1207	1.1212	1.9300e-003	0.1698	1.4500e-003	0.1712	0.0450	1.3200e-003	0.0463		167.6267	167.6267	9.8700e-003		167.8340
Total	0.0823	0.1207	1.1212	1.9300e-003	0.1698	1.4500e-003	0.1712	0.0450	1.3200e-003	0.0463		167.6267	167.6267	9.8700e-003		167.8340

3.4 Grading - 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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	3.8327	40.4161	26.6731	0.0298		2.3284	2.3284		2.1421	2.1421		3,129.0158	3,129.0158	0.9341		3,148.6328
Total	3.8327	40.4161	26.6731	0.0298	6.5523	2.3284	8.8807	3.3675	2.1421	5.5096		3,129.0158	3,129.0158	0.9341		3,148.6328

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617
Total	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	3.8327	40.4161	26.6731	0.0298		2.3284	2.3284		2.1421	2.1421		3,129.0158	3,129.0158	0.9341		3,148.6328
Total	3.8327	40.4161	26.6731	0.0298	6.5523	2.3284	8.8807	3.3675	2.1421	5.5096		3,129.0158	3,129.0158	0.9341		3,148.6328

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617
Total	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617

3.5 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6451	4.6677	7.6343	9.5300e-003	0.2659	0.0753	0.3412	0.0759	0.0692	0.1451		960.4806	960.4806	8.7800e-003		960.6650
Worker	0.4525	0.6639	6.1664	0.0106	0.9336	7.9700e-003	0.9416	0.2476	7.2800e-003	0.2549		921.9469	921.9469	0.0543		923.0869
Total	1.0976	5.3316	13.8007	0.0201	1.1995	0.0832	1.2827	0.3235	0.0765	0.4000		1,882.4275	1,882.4275	0.0631		1,883.7519

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	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
												1				
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
												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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6451	4.6677	7.6343	9.5300e-003	0.2659	0.0753	0.3412	0.0759	0.0692	0.1451		960.4806	960.4806	8.7800e-003		960.6650
Worker	0.4525	0.6639	6.1664	0.0106	0.9336	7.9700e-003	0.9416	0.2476	7.2800e-003	0.2549		921.9469	921.9469	0.0543		923.0869
Total	1.0976	5.3316	13.8007	0.0201	1.1995	0.0832	1.2827	0.3235	0.0765	0.4000		1,882.4275	1,882.4275	0.0631		1,883.7519

3.5 Building Construction - 2016

Unmitigated Construction On-Site

Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
-------	--------	---------	---------	--------	--	--------	--------	--	--------	--------	--	------------	------------	--------	--	------------

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5739	4.0588	7.1794	9.5100e-003	0.2659	0.0602	0.3261	0.0759	0.0553	0.1312		949.2972	949.2972	7.7700e-003		949.4603
Worker	0.4038	0.5949	5.4914	0.0106	0.9336	7.5000e-003	0.9411	0.2476	6.8800e-003	0.2545		890.3663	890.3663	0.0495		891.4055
Total	0.9777	4.6537	12.6709	0.0201	1.1995	0.0677	1.2672	0.3235	0.0622	0.3857		1,839.6635	1,839.6635	0.0573		1,840.8659

3.6 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0612	0.0901	0.8320	1.6100e-003	0.1415	1.1400e-003	0.1426	0.0375	1.0400e-003	0.0386		134.9040	134.9040	7.5000e-003		135.0615
Total	0.0612	0.0901	0.8320	1.6100e-003	0.1415	1.1400e-003	0.1426	0.0375	1.0400e-003	0.0386		134.9040	134.9040	7.5000e-003		135.0615

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	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0612	0.0901	0.8320	1.6100e-003	0.1415	1.1400e-003	0.1426	0.0375	1.0400e-003	0.0386		134.9040	134.9040	7.5000e-003		135.0615
Total	0.0612	0.0901	0.8320	1.6100e-003	0.1415	1.1400e-003	0.1426	0.0375	1.0400e-003	0.0386		134.9040	134.9040	7.5000e-003		135.0615

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	297.6806					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	298.0490	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0816	0.1202	1.1094	2.1400e-003	0.1886	1.5200e-003	0.1901	0.0500	1.3900e-003	0.0514		179.8720	179.8720	0.0100		180.0819
Total	0.0816	0.1202	1.1094	2.1400e-003	0.1886	1.5200e-003	0.1901	0.0500	1.3900e-003	0.0514		179.8720	179.8720	0.0100		180.0819

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	297.6806					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	298.0490	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0816	0.1202	1.1094	2.1400e-003	0.1886	1.5200e-003	0.1901	0.0500	1.3900e-003	0.0514		179.8720	179.8720	0.0100		180.0819
Total	0.0816	0.1202	1.1094	2.1400e-003	0.1886	1.5200e-003	0.1901	0.0500	1.3900e-003	0.0514		179.8720	179.8720	0.0100		180.0819

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	1.3419	2.5199	13.4165	0.0366	2.6561	0.0468	2.7029	0.7105	0.0432	0.7537		2,699.2908	2,699.2908	0.0880		2,701.1388
Unmitigated	1.3419	2.5199	13.4165	0.0366	2.6561	0.0468	2.7029	0.7105	0.0432	0.7537		2,699.2908	2,699.2908	0.0880		2,701.1388

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	0.00	0.00	0.00		
Medical Office Building	238.09	238.09	238.09	466,002	466,002
Office Park	313.00	313.00	313.00	784,455	784,455
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	551.09	551.09	551.09	1,250,457	1,250,457

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3
Medical Office Building	9.50	7.30	7.30	29.60	51.40	19.00	60	30	10
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Unenclosed Parking with	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.546360	0.063107	0.173950	0.120854	0.033649	0.004805	0.015980	0.026900	0.002132	0.003198	0.006795	0.000619	0.001651

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive 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	0.0580	0.5256	0.4291	3.1700e-003		0.0401	0.0401		0.0401	0.0401		633.0161	633.0161	0.0121	0.0116	636.8685
NaturalGas Unmitigated	0.0715	0.6473	0.5289	3.9000e-003		0.0494	0.0494		0.0494	0.0494		779.4949	779.4949	0.0149	0.0143	784.2388

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					
Apartments Mid Rise	388.106	4.1900e-003	0.0358	0.0152	2.3000e-004		2.8900e-003	2.8900e-003		2.8900e-003	2.8900e-003		45.6595	45.6595	8.8000e-004	8.4000e-004	45.9374
Medical Office Building	4563.69	0.0492	0.4474	0.3758	2.6800e-003		0.0340	0.0340		0.0340	0.0340		536.9051	536.9051	0.0103	9.8400e-003	540.1726
Office Park	1673.91	0.0181	0.1641	0.1379	9.8000e-004		0.0125	0.0125		0.0125	0.0125		196.9302	196.9302	3.7700e-003	3.6100e-003	198.1287
Unenclosed Parking with Streetlights	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		0.0715	0.6473	0.5289	3.8900e-003		0.0494	0.0494		0.0494	0.0494		779.4949	779.4949	0.0149	0.0143	784.2388

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					
Medical Office Building	3.69639	0.0399	0.3624	0.3044	2.1700e-003		0.0275	0.0275		0.0275	0.0275		434.8693	434.8693	8.3300e-003	7.9700e-003	437.5159
Office Park	1.35919	0.0147	0.1333	0.1119	8.0000e-004		0.0101	0.0101		0.0101	0.0101		159.9049	159.9049	3.0600e-003	2.9300e-003	160.8781
Unenclosed Parking with Electric Vehicle Stations	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
Apartment Mid Rise	0.325056	3.5100e-003	0.0300	0.0128	1.9000e-004		2.4200e-003	2.4200e-003		2.4200e-003	2.4200e-003		38.2419	38.2419	7.3000e-004	7.0000e-004	38.4746
Total		0.0580	0.5256	0.4291	3.1600e-003		0.0401	0.0401		0.0401	0.0401		633.0161	633.0161	0.0121	0.0116	636.8685

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	13.2904	0.3141	21.9009	0.0473		3.2152	3.2152		3.2150	3.2150		219.8401	650.0988	1.6345	0.0112	687.9031
Unmitigated	13.2904	0.3141	21.9009	0.0473		3.2152	3.2152		3.2150	3.2150		219.8401	650.0988	1.6345	0.0112	687.9031

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	0.7340					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.3778					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	7.1367	0.2987	20.5574	0.0472		3.2078	3.2078		3.2076	3.2076		217.4118	647.6705	1.6321	0.0112	685.4241
Landscaping	0.0419	0.0154	1.3435	7.0000e-005		7.4000e-003	7.4000e-003		7.4000e-003	7.4000e-003		2.4283	2.4283	2.4100e-003		2.4791
Total	13.2904	0.3141	21.9009	0.0473		3.2152	3.2152		3.2150	3.2150		219.8401	650.0988	1.6345	0.0112	687.9031

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	0.7340					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.3778					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	7.1367	0.2987	20.5574	0.0472		3.2078	3.2078		3.2076	3.2076		217.4118	647.6705	1.6321	0.0112	685.4241
Landscaping	0.0419	0.0154	1.3435	7.0000e-005		7.4000e-003	7.4000e-003		7.4000e-003	7.4000e-003		2.4283	2.4283	2.4100e-003		2.4791
Total	13.2904	0.3141	21.9009	0.0473		3.2152	3.2152		3.2150	3.2150		219.8401	650.0988	1.6345	0.0112	687.9031

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Vegetation

Phase 2 Buildout -- Medical Offices
Bay Area AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	82.10	1000sqft	1.88	82,097.00	0
Office Park	31.30	1000sqft	0.72	31,300.00	0
Unenclosed Parking with Elevator	121.90	1000sqft	2.80	121,901.00	0
Apartments Mid Rise	16.00	Dwelling Unit	0.42	16,000.00	46

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5	Operational Year	2024		
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - PG&E CO2 Intensity factor for 2024 = 290.0

Land Use - Medical offices

Vehicle Trips - Apartments (represnt the family house) = 0 trip generation (trips accounted for in medical office and offic park generation), Med office trip gen = 240 trips (20 per 1k sq ft), Office trips 210 total or 10 per 1k sq ft

Energy Mitigation - 20 percent increase in energy efficiency and lighting (LEED certified project)

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00

tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblLandUse	LandUseSquareFeet	82,100.00	82,097.00
tblLandUse	LandUseSquareFeet	121,900.00	121,901.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	OperationalYear	2014	2024
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	8.96	2.90
tblVehicleTrips	ST_TR	1.64	10.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	1.55	2.90
tblVehicleTrips	SU_TR	0.76	10.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	36.13	2.90
tblVehicleTrips	WD_TR	11.42	10.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	5.3422	56.9873	43.7710	0.0479	18.2360	3.0897	21.3257	9.9757	2.8425	12.8183		4,656.5095	4,656.5095	1.2374	0.0000	4,682.4949
2016	298.1302	32.8636	28.7510	0.0479	1.1995	2.0344	3.2339	0.3235	1.9101	2.2336		4,590.8743	4,590.8743	0.7191	0.0000	4,605.9754
Total	303.4723	89.8509	72.5220	0.0957	19.4355	5.1242	24.5597	10.2992	4.7526	15.0519		9,247.3839	9,247.3839	1.9565	0.0000	9,288.4703

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	5.3422	56.9873	43.7710	0.0479	18.2360	3.0897	21.3257	9.9757	2.8425	12.8183		4,656.5095	4,656.5095	1.2374	0.0000	4,682.4949
2016	298.1302	32.8636	28.7510	0.0479	1.1995	2.0344	3.2339	0.3235	1.9101	2.2336		4,590.8743	4,590.8743	0.7191	0.0000	4,605.9754
Total	303.4723	89.8509	72.5220	0.0957	19.4355	5.1242	24.5597	10.2992	4.7526	15.0519		9,247.3839	9,247.3839	1.9565	0.0000	9,288.4703

	ROG	NOx	CO	SO2	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

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	13.2904	0.3141	21.9009	0.0473		3.2152	3.2152		3.2150	3.2150		219.8401	650.0988	1.6345	0.0112	687.9031
Energy	0.0715	0.6473	0.5289	3.9000e-003		0.0494	0.0494		0.0494	0.0494		779.4949	779.4949	0.0149	0.0143	784.2388
Mobile	1.2957	2.2636	11.5621	0.0389	2.6561	0.0466	2.7027	0.7105	0.0430	0.7535		2,865.1526	2,865.1526	0.0878		2,866.9972
Total	14.6575	3.2250	33.9918	0.0901	2.6561	3.3111	5.9672	0.7105	3.3074	4.0179		3,864.4876	4,294.7463	1.7373	0.0255	4,339.1390

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	13.2904	0.3141	21.9009	0.0473		3.2152	3.2152		3.2150	3.2150		219.8401	650.0988	1.6345	0.0112	687.9031
Energy	0.0580	0.5256	0.4291	3.1700e-003		0.0401	0.0401		0.0401	0.0401		633.0161	633.0161	0.0121	0.0116	636.8685
Mobile	1.2957	2.2636	11.5621	0.0389	2.6561	0.0466	2.7027	0.7105	0.0430	0.7535		2,865.1526	2,865.1526	0.0878		2,866.9972
Total	14.6441	3.1033	33.8920	0.0894	2.6561	3.3018	5.9579	0.7105	3.2981	4.0086		3,718.0088	4,148.2675	1.7345	0.0228	4,191.7688

	ROG	NOx	CO	SO2	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	0.09	3.77	0.29	0.81	0.00	0.28	0.16	0.00	0.28	0.23	0.00	3.79	3.41	0.16	10.51	3.40

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/28/2015	5	20	
2	Site Preparation	Site Preparation	1/29/2015	2/11/2015	5	10	
3	Grading	Grading	2/12/2015	3/11/2015	5	20	
4	Building Construction	Building Construction	3/12/2015	1/27/2016	5	230	
5	Paving	Paving	1/28/2016	2/24/2016	5	20	
6	Architectural Coating	Architectural Coating	2/25/2016	3/23/2016	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 32,400; Residential Outdoor: 10,800; Non-Residential Indoor: 352,947; Non-Residential Outdoor: 117,649

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Building Construction	9	99.00	40.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886
Total	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501
Total	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501

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	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886
Total	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501
Total	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501

3.3 Site Preparation - 2015

Unmitigated Construction On-Site

Off-Road	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412		4,111.7444	4,111.7444	1.2275		4,137.5224
Total	5.2609	56.8897	42.6318	0.0391	18.0663	3.0883	21.1545	9.9307	2.8412	12.7719		4,111.7444	4,111.7444	1.2275		4,137.5224

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0812	0.0976	1.1392	2.0900e-003	0.1698	1.4500e-003	0.1712	0.0450	1.3200e-003	0.0463		181.6529	181.6529	9.8700e-003		181.8602
Total	0.0812	0.0976	1.1392	2.0900e-003	0.1698	1.4500e-003	0.1712	0.0450	1.3200e-003	0.0463		181.6529	181.6529	9.8700e-003		181.8602

3.4 Grading - 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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	3.8327	40.4161	26.6731	0.0298		2.3284	2.3284		2.1421	2.1421		3,129.0158	3,129.0158	0.9341		3,148.6328
Total	3.8327	40.4161	26.6731	0.0298	6.5523	2.3284	8.8807	3.3675	2.1421	5.5096		3,129.0158	3,129.0158	0.9341		3,148.6328

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501
Total	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	3.8327	40.4161	26.6731	0.0298		2.3284	2.3284		2.1421	2.1421		3,129.0158	3,129.0158	0.9341		3,148.6328
Total	3.8327	40.4161	26.6731	0.0298	6.5523	2.3284	8.8807	3.3675	2.1421	5.5096		3,129.0158	3,129.0158	0.9341		3,148.6328

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501
Total	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501

3.5 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5076	4.4560	5.0343	9.5600e-003	0.2659	0.0744	0.3403	0.0759	0.0684	0.1443		967.8415	967.8415	8.5900e-003		968.0218
Worker	0.4468	0.5368	6.2658	0.0115	0.9336	7.9700e-003	0.9416	0.2476	7.2800e-003	0.2549		999.0909	999.0909	0.0543		1,000.2309
Total	0.9544	4.9928	11.3001	0.0211	1.1995	0.0823	1.2818	0.3235	0.0756	0.3992		1,966.9324	1,966.9324	0.0629		1,968.2527

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	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
												1				
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
												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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5076	4.4560	5.0343	9.5600e-003	0.2659	0.0744	0.3403	0.0759	0.0684	0.1443		967.8415	967.8415	8.5900e-003		968.0218
Worker	0.4468	0.5368	6.2658	0.0115	0.9336	7.9700e-003	0.9416	0.2476	7.2800e-003	0.2549		999.0909	999.0909	0.0543		1,000.2309
Total	0.9544	4.9928	11.3001	0.0211	1.1995	0.0823	1.2818	0.3235	0.0756	0.3992		1,966.9324	1,966.9324	0.0629		1,968.2527
												4				

3.5 Building Construction - 2016

Unmitigated Construction On-Site

Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
-------	--------	---------	---------	--------	--	--------	--------	--	--------	--------	--	------------	------------	--------	--	------------

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4522	3.8764	4.6251	9.5400e-003	0.2659	0.0595	0.3254	0.0759	0.0547	0.1306		956.6123	956.6123	7.5800e-003		956.7715
Worker	0.4017	0.4809	5.6193	0.0115	0.9336	7.5000e-003	0.9411	0.2476	6.8800e-003	0.2545		964.9757	964.9757	0.0495		966.0149
Total	0.8539	4.3573	10.2444	0.0210	1.1995	0.0670	1.2665	0.3235	0.0616	0.3851		1,921.5880	1,921.5880	0.0571		1,922.7864

3.6 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0609	0.0729	0.8514	1.7400e-003	0.1415	1.1400e-003	0.1426	0.0375	1.0400e-003	0.0386		146.2084	146.2084	7.5000e-003		146.3659
Total	0.0609	0.0729	0.8514	1.7400e-003	0.1415	1.1400e-003	0.1426	0.0375	1.0400e-003	0.0386		146.2084	146.2084	7.5000e-003		146.3659

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	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0609	0.0729	0.8514	1.7400e-003	0.1415	1.1400e-003	0.1426	0.0375	1.0400e-003	0.0386		146.2084	146.2084	7.5000e-003		146.3659
Total	0.0609	0.0729	0.8514	1.7400e-003	0.1415	1.1400e-003	0.1426	0.0375	1.0400e-003	0.0386		146.2084	146.2084	7.5000e-003		146.3659

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	297.6806					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	298.0490	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0811	0.0971	1.1352	2.3200e-003	0.1886	1.5200e-003	0.1901	0.0500	1.3900e-003	0.0514		194.9446	194.9446	0.0100		195.1545
Total	0.0811	0.0971	1.1352	2.3200e-003	0.1886	1.5200e-003	0.1901	0.0500	1.3900e-003	0.0514		194.9446	194.9446	0.0100		195.1545

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	297.6806					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	298.0490	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0811	0.0971	1.1352	2.3200e-003	0.1886	1.5200e-003	0.1901	0.0500	1.3900e-003	0.0514		194.9446	194.9446	0.0100		195.1545
Total	0.0811	0.0971	1.1352	2.3200e-003	0.1886	1.5200e-003	0.1901	0.0500	1.3900e-003	0.0514		194.9446	194.9446	0.0100		195.1545

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	1.2957	2.2636	11.5621	0.0389	2.6561	0.0466	2.7027	0.7105	0.0430	0.7535		2,865.1526	2,865.1526	0.0878		2,866.9972
Unmitigated	1.2957	2.2636	11.5621	0.0389	2.6561	0.0466	2.7027	0.7105	0.0430	0.7535		2,865.1526	2,865.1526	0.0878		2,866.9972

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	0.00	0.00	0.00		
Medical Office Building	238.09	238.09	238.09	466,002	466,002
Office Park	313.00	313.00	313.00	784,455	784,455
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	551.09	551.09	551.09	1,250,457	1,250,457

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3
Medical Office Building	9.50	7.30	7.30	29.60	51.40	19.00	60	30	10
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Unenclosed Parking with	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.546360	0.063107	0.173950	0.120854	0.033649	0.004805	0.015980	0.026900	0.002132	0.003198	0.006795	0.000619	0.001651

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive 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	0.0580	0.5256	0.4291	3.1700e-003		0.0401	0.0401		0.0401	0.0401		633.0161	633.0161	0.0121	0.0116	636.8685
NaturalGas Unmitigated	0.0715	0.6473	0.5289	3.9000e-003		0.0494	0.0494		0.0494	0.0494		779.4949	779.4949	0.0149	0.0143	784.2388

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					
Apartments Mid Rise	388.106	4.1900e-003	0.0358	0.0152	2.3000e-004		2.8900e-003	2.8900e-003		2.8900e-003	2.8900e-003		45.6595	45.6595	8.8000e-004	8.4000e-004	45.9374
Medical Office Building	4563.69	0.0492	0.4474	0.3758	2.6800e-003		0.0340	0.0340		0.0340	0.0340		536.9051	536.9051	0.0103	9.8400e-003	540.1726
Office Park	1673.91	0.0181	0.1641	0.1379	9.8000e-004		0.0125	0.0125		0.0125	0.0125		196.9302	196.9302	3.7700e-003	3.6100e-003	198.1287
Unenclosed Parking with Streetlights	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		0.0715	0.6473	0.5289	3.8900e-003		0.0494	0.0494		0.0494	0.0494		779.4949	779.4949	0.0149	0.0143	784.2388

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					
Medical Office Building	3.69639	0.0399	0.3624	0.3044	2.1700e-003		0.0275	0.0275		0.0275	0.0275		434.8693	434.8693	8.3300e-003	7.9700e-003	437.5159
Office Park	1.35919	0.0147	0.1333	0.1119	8.0000e-004		0.0101	0.0101		0.0101	0.0101		159.9049	159.9049	3.0600e-003	2.9300e-003	160.8781
Unenclosed Parking with Electric Vehicle Stations	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
Apartment Mid Rise	0.325056	3.5100e-003	0.0300	0.0128	1.9000e-004		2.4200e-003	2.4200e-003		2.4200e-003	2.4200e-003		38.2419	38.2419	7.3000e-004	7.0000e-004	38.4746
Total		0.0580	0.5256	0.4291	3.1600e-003		0.0401	0.0401		0.0401	0.0401		633.0161	633.0161	0.0121	0.0116	636.8685

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	13.2904	0.3141	21.9009	0.0473		3.2152	3.2152		3.2150	3.2150		219.8401	650.0988	1.6345	0.0112	687.9031
Unmitigated	13.2904	0.3141	21.9009	0.0473		3.2152	3.2152		3.2150	3.2150		219.8401	650.0988	1.6345	0.0112	687.9031

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	0.7340					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.3778					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	7.1367	0.2987	20.5574	0.0472		3.2078	3.2078		3.2076	3.2076		217.4118	647.6705	1.6321	0.0112	685.4241
Landscaping	0.0419	0.0154	1.3435	7.0000e-005		7.4000e-003	7.4000e-003		7.4000e-003	7.4000e-003		2.4283	2.4283	2.4100e-003		2.4791
Total	13.2904	0.3141	21.9009	0.0473		3.2152	3.2152		3.2150	3.2150		219.8401	650.0988	1.6345	0.0112	687.9031

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	0.7340					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.3778					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	7.1367	0.2987	20.5574	0.0472		3.2078	3.2078		3.2076	3.2076		217.4118	647.6705	1.6321	0.0112	685.4241
Landscaping	0.0419	0.0154	1.3435	7.0000e-005		7.4000e-003	7.4000e-003		7.4000e-003	7.4000e-003		2.4283	2.4283	2.4100e-003		2.4791
Total	13.2904	0.3141	21.9009	0.0473		3.2152	3.2152		3.2150	3.2150		219.8401	650.0988	1.6345	0.0112	687.9031

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Vegetation

Phase 2 Buildout -- Medical Offices
Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	82.10	1000sqft	1.88	82,097.00	0
Office Park	31.30	1000sqft	0.72	31,300.00	0
Unenclosed Parking with Elevator	121.90	1000sqft	2.80	121,901.00	0
Apartments Mid Rise	16.00	Dwelling Unit	0.42	16,000.00	46

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5	Operational Year	2024		
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - PG&E CO2 Intensity factor for 2024 = 290.0

Land Use - Medical offices

Vehicle Trips - Apartments (represnt the family house) = 0 trip generation (trips accounted for in medical office and offce park generation), Med office trip gen = 210 trips (2.0 per 1k sq ft), Office trips 210 total or 10 per 1k sq ft

Energy Mitigation - 20 percent increase in energy efficiency and lighting (LEED certified project)

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00

tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblLandUse	LandUseSquareFeet	82,100.00	82,097.00
tblLandUse	LandUseSquareFeet	121,900.00	121,901.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	OperationalYear	2014	2024
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	8.96	2.90
tblVehicleTrips	ST_TR	1.64	10.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	1.55	2.90
tblVehicleTrips	SU_TR	0.76	10.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	36.13	2.90
tblVehicleTrips	WD_TR	11.42	10.00

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					
2015	0.6020	4.8932	4.1330	5.9000e-003	0.2813	0.2953	0.5766	0.1173	0.2765	0.3938		526.5770	526.5770	0.0950	0.0000	528.5719
2016	3.0435	0.5636	0.4677	7.4000e-004	0.0142	0.0339	0.0481	3.8200e-003	0.0317	0.0356		65.4128	65.4128	0.0130	0.0000	65.6857
Total	3.6455	5.4568	4.6008	6.6400e-003	0.2954	0.3292	0.6247	0.1211	0.3083	0.4293		591.9898	591.9898	0.1080	0.0000	594.2576

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	0.6020	4.8932	4.1330	5.9000e-003	0.2813	0.2953	0.5766	0.1173	0.2765	0.3938		526.5766	526.5766	0.0950	0.0000	528.5715
2016	3.0435	0.5636	0.4677	7.4000e-004	0.0142	0.0339	0.0481	3.8200e-003	0.0317	0.0356		65.4128	65.4128	0.0130	0.0000	65.6857
Total	3.6455	5.4568	4.6008	6.6400e-003	0.2954	0.3292	0.6247	0.1211	0.3083	0.4293		591.9893	591.9893	0.1080	0.0000	594.2572

	ROG	NOx	CO	SO2	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

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	1.1331	1.8300e-003	0.1527	7.0000e-005		5.5400e-003	5.5400e-003		5.5400e-003	5.5400e-003		0.6213	1.1900	2.1200e-003	2.0000e-005	1.2413
Energy	0.0130	0.1181	0.0965	7.1000e-004		9.0100e-003	9.0100e-003		9.0100e-003	9.0100e-003		389.3341	389.3341	0.0285	7.7500e-003	392.3355
Mobile	0.2280	0.4396	2.2084	6.6900e-003	0.4653	8.4800e-003	0.4738	0.1249	7.8300e-003	0.1327		448.4193	448.4193	0.0145	0.0000	448.7237
Waste						0.0000	0.0000		0.0000	0.0000		0.0000	187.3911	11.0745	0.0000	419.9556
Water						0.0000	0.0000		0.0000	0.0000		14.8101	20.1740	0.5524	0.0133	35.9023

Total	1.3742	0.5595	2.4576	7.4700e-003	0.4653	0.0230	0.4883	0.1249	0.0224	0.1473		853.1848	1,046.5086	11.6720	0.0211	1,298.1584
-------	--------	--------	--------	-------------	--------	--------	--------	--------	--------	--------	--	----------	------------	---------	--------	------------

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	1.1331	1.8300e-003	0.1527	7.0000e-005		5.5400e-003	5.5400e-003		5.5400e-003	5.5400e-003		0.6213	1.1900	2.1200e-003	2.0000e-005	1.2413
Energy	0.0106	0.0959	0.0783	5.8000e-004		7.3200e-003	7.3200e-003		7.3200e-003	7.3200e-003		329.0426	329.0426	0.0244	6.5600e-003	331.5896
Mobile	0.2280	0.4396	2.2084	6.6900e-003	0.4653	8.4800e-003	0.4738	0.1249	7.8300e-003	0.1327		448.4193	448.4193	0.0145	0.0000	448.7237
Waste						0.0000	0.0000		0.0000	0.0000		0.0000	183.6433	10.8530	0.0000	411.5564
Water						0.0000	0.0000		0.0000	0.0000		14.8101	20.1740	0.5523	0.0133	35.8938
Total	1.3717	0.5373	2.4394	7.3400e-003	0.4653	0.0213	0.4866	0.1249	0.0207	0.1456		792.8934	982.4693	11.4464	0.0199	1,229.0048

	ROG	NOx	CO	SO2	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	0.18	3.97	0.74	1.74	0.00	7.34	0.35	0.00	7.55	1.15	0.00	7.07	6.12	1.93	5.78	5.33

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/28/2015	5	20	
2	Site Preparation	Site Preparation	1/29/2015	2/11/2015	5	10	
3	Grading	Grading	2/12/2015	3/11/2015	5	20	
4	Building Construction	Building Construction	3/12/2015	1/27/2016	5	230	

5	Paving	Paving	1/28/2016	2/24/2016	5	20
6	Architectural Coating	Architectural Coating	2/25/2016	3/23/2016	5	20

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 32,400; Residential Outdoor: 10,800; Non-Residential Indoor: 352,947; Non-Residential Outdoor: 117,649

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	99.00	40.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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	0.0451	0.4836	0.3607	4.0000e-004		0.0245	0.0245		0.0229	0.0229		37.4413	37.4413	0.0102	0.0000	37.6544
Total	0.0451	0.4836	0.3607	4.0000e-004		0.0245	0.0245		0.0229	0.0229		37.4413	37.4413	0.0102	0.0000	37.6544

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-004	9.2000e-004	8.9400e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2786	1.2786	7.0000e-005	0.0000	1.2801
Total	6.4000e-004	9.2000e-004	8.9400e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2786	1.2786	7.0000e-005	0.0000	1.2801

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	0.0451	0.4836	0.3607	4.0000e-004		0.0245	0.0245		0.0229	0.0229		37.4412	37.4412	0.0102	0.0000	37.6544
Total	0.0451	0.4836	0.3607	4.0000e-004		0.0245	0.0245		0.0229	0.0229		37.4412	37.4412	0.0102	0.0000	37.6544

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-004	9.2000e-004	8.9400e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2786	1.2786	7.0000e-005	0.0000	1.2801
Total	6.4000e-004	9.2000e-004	8.9400e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2786	1.2786	7.0000e-005	0.0000	1.2801

3.3 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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0263	0.2845	0.2132	2.0000e-004		0.0154	0.0154		0.0142	0.0142		18.6506	18.6506	5.5700e-003	0.0000	18.7675
Total	0.0263	0.2845	0.2132	2.0000e-004	0.0903	0.0154	0.1058	0.0497	0.0142	0.0639		18.6506	18.6506	5.5700e-003	0.0000	18.7675

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	5.5000e-004	5.3600e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.2000e-004	2.2000e-004	1.0000e-005	2.2000e-004		0.7671	0.7671	4.0000e-005	0.0000	0.7681
Total	3.8000e-004	5.5000e-004	5.3600e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.2000e-004	2.2000e-004	1.0000e-005	2.2000e-004		0.7671	0.7671	4.0000e-005	0.0000	0.7681

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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0263	0.2845	0.2132	2.0000e-004		0.0154	0.0154		0.0142	0.0142		18.6505	18.6505	5.5700e-003	0.0000	18.7675
Total	0.0263	0.2845	0.2132	2.0000e-004	0.0903	0.0154	0.1058	0.0497	0.0142	0.0639		18.6505	18.6505	5.5700e-003	0.0000	18.7675

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	5.5000e-004	5.3600e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.2000e-004	2.2000e-004	1.0000e-005	2.2000e-004		0.7671	0.7671	4.0000e-005	0.0000	0.7681
Total	3.8000e-004	5.5000e-004	5.3600e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.2000e-004	2.2000e-004	1.0000e-005	2.2000e-004		0.7671	0.7671	4.0000e-005	0.0000	0.7681

3.4 Grading - 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					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337			0.0000	0.0000	0.0000	0.0000

Off-Road	0.0383	0.4042	0.2667	3.0000e-004		0.0233	0.0233		0.0214	0.0214		28.3860	28.3860	8.4700e-003	0.0000	28.5639
Total	0.0383	0.4042	0.2667	3.0000e-004	0.0655	0.0233	0.0888	0.0337	0.0214	0.0551		28.3860	28.3860	8.4700e-003	0.0000	28.5639

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-004	9.2000e-004	8.9400e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2786	1.2786	7.0000e-005	0.0000	1.2801
Total	6.4000e-004	9.2000e-004	8.9400e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2786	1.2786	7.0000e-005	0.0000	1.2801

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					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0383	0.4042	0.2667	3.0000e-004		0.0233	0.0233		0.0214	0.0214		28.3859	28.3859	8.4700e-003	0.0000	28.5639
Total	0.0383	0.4042	0.2667	3.0000e-004	0.0655	0.0233	0.0888	0.0337	0.0214	0.0551		28.3859	28.3859	8.4700e-003	0.0000	28.5639

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-004	9.2000e-004	8.9400e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2786	1.2786	7.0000e-005	0.0000	1.2801
Total	6.4000e-004	9.2000e-004	8.9400e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2786	1.2786	7.0000e-005	0.0000	1.2801

3.5 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3860	3.1682	1.9776	2.8300e-003		0.2233	0.2233		0.2100	0.2100		257.4140	257.4140	0.0646	0.0000	258.7703
Total	0.3860	3.1682	1.9776	2.8300e-003		0.2233	0.2233		0.2100	0.2100		257.4140	257.4140	0.0646	0.0000	258.7703

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0603	0.4863	0.6691	1.0100e-003	0.0272	7.8900e-003	0.0350	7.7900e-003	7.2500e-003	0.0150		92.3343	92.3343	8.3000e-004	0.0000	92.3517
Worker	0.0443	0.0641	0.6225	1.1300e-003	0.0947	8.4000e-004	0.0956	0.0252	7.7000e-004	0.0260		89.0266	89.0266	5.2000e-003	0.0000	89.1357
Total	0.1046	0.5504	1.2916	2.1400e-003	0.1219	8.7300e-003	0.1306	0.0330	8.0200e-003	0.0410		181.3609	181.3609	6.0300e-003	0.0000	181.4874

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	0.3860	3.1682	1.9776	2.8300e-003		0.2233	0.2233		0.2100	0.2100		257.4137	257.4137	0.0646	0.0000	258.7700
Total	0.3860	3.1682	1.9776	2.8300e-003		0.2233	0.2233		0.2100	0.2100		257.4137	257.4137	0.0646	0.0000	258.7700

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0603	0.4863	0.6691	1.0100e-003	0.0272	7.8900e-003	0.0350	7.7900e-003	7.2500e-003	0.0150		92.3343	92.3343	8.3000e-004	0.0000	92.3517
Worker	0.0443	0.0641	0.6225	1.1300e-003	0.0947	8.4000e-004	0.0956	0.0252	7.7000e-004	0.0260		89.0266	89.0266	5.2000e-003	0.0000	89.1357
Total	0.1046	0.5504	1.2916	2.1400e-003	0.1219	8.7300e-003	0.1306	0.0330	8.0200e-003	0.0410		181.3609	181.3609	6.0300e-003	0.0000	181.4874

3.5 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0324	0.2708	0.1758	2.5000e-004		0.0187	0.0187		0.0176	0.0176		23.0046	23.0046	5.7100e-003	0.0000	23.1244
Total	0.0324	0.2708	0.1758	2.5000e-004		0.0187	0.0187		0.0176	0.0176		23.0046	23.0046	5.7100e-003	0.0000	23.1244

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8400e-003	0.0381	0.0562	9.0000e-005	2.4500e-003	5.7000e-004	3.0100e-003	7.0000e-004	5.2000e-004	1.2200e-003		8.2179	8.2179	7.0000e-005	0.0000	8.2192
Worker	3.5700e-003	5.1700e-003	0.0501	1.0000e-004	8.5300e-003	7.0000e-005	8.6000e-003	2.2700e-003	7.0000e-005	2.3300e-003		7.7421	7.7421	4.3000e-004	0.0000	7.7511
Total	8.4100e-003	0.0433	0.1063	1.9000e-004	0.0110	6.4000e-004	0.0116	2.9700e-003	5.9000e-004	3.5500e-003		15.9600	15.9600	5.0000e-004	0.0000	15.9703

Mitigated Construction On-Site

Paving	0.0000					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0209	0.2239	0.1482	2.2000e-004		0.0126	0.0126		0.0116	0.0116		21.0138	21.0138	6.3400e-003	0.0000	21.1469

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	8.2000e-004	7.9800e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2348	1.2348	7.0000e-005	0.0000	1.2362
Total	5.7000e-004	8.2000e-004	7.9800e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2348	1.2348	7.0000e-005	0.0000	1.2362

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	0.0209	0.2239	0.1482	2.2000e-004		0.0126	0.0126		0.0116	0.0116		21.0138	21.0138	6.3400e-003	0.0000	21.1469
Paving	0.0000					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0209	0.2239	0.1482	2.2000e-004		0.0126	0.0126		0.0116	0.0116		21.0138	21.0138	6.3400e-003	0.0000	21.1469

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	8.2000e-004	7.9800e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2348	1.2348	7.0000e-005	0.0000	1.2362
Total	5.7000e-004	8.2000e-004	7.9800e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2348	1.2348	7.0000e-005	0.0000	1.2362

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.9768					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6800e-003	0.0237	0.0188	3.0000e-005		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		2.5533	2.5533	3.0000e-004	0.0000	2.5596
Total	2.9805	0.0237	0.0188	3.0000e-005		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		2.5533	2.5533	3.0000e-004	0.0000	2.5596

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.6000e-004	1.1000e-003	0.0107	2.0000e-005	1.8100e-003	2.0000e-005	1.8300e-003	4.8000e-004	1.0000e-005	5.0000e-004		1.6464	1.6464	9.0000e-005	0.0000	1.6483
Total	7.6000e-004	1.1000e-003	0.0107	2.0000e-005	1.8100e-003	2.0000e-005	1.8300e-003	4.8000e-004	1.0000e-005	5.0000e-004		1.6464	1.6464	9.0000e-005	0.0000	1.6483

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.9768					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6800e-003	0.0237	0.0188	3.0000e-005		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		2.5533	2.5533	3.0000e-004	0.0000	2.5596
Total	2.9805	0.0237	0.0188	3.0000e-005		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		2.5533	2.5533	3.0000e-004	0.0000	2.5596

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.6000e-004	1.1000e-003	0.0107	2.0000e-005	1.8100e-003	2.0000e-005	1.8300e-003	4.8000e-004	1.0000e-005	5.0000e-004		1.6464	1.6464	9.0000e-005	0.0000	1.6483
Total	7.6000e-004	1.1000e-003	0.0107	2.0000e-005	1.8100e-003	2.0000e-005	1.8300e-003	4.8000e-004	1.0000e-005	5.0000e-004		1.6464	1.6464	9.0000e-005	0.0000	1.6483

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	0.2280	0.4396	2.2084	6.6900e-003	0.4653	8.4800e-003	0.4738	0.1249	7.8300e-003	0.1327		448.4193	448.4193	0.0145	0.0000	448.7237
Unmitigated	0.2280	0.4396	2.2084	6.6900e-003	0.4653	8.4800e-003	0.4738	0.1249	7.8300e-003	0.1327		448.4193	448.4193	0.0145	0.0000	448.7237

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	0.00	0.00	0.00		
Medical Office Building	238.09	238.09	238.09	466,002	466,002
Office Park	313.00	313.00	313.00	784,455	784,455
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	551.09	551.09	551.09	1,250,457	1,250,457

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3
Medical Office Building	9.50	7.30	7.30	29.60	51.40	19.00	60	30	10
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Unenclosed Parking with	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.546360	0.063107	0.173950	0.120854	0.033649	0.004805	0.015980	0.026900	0.002132	0.003198	0.006795	0.000619	0.001651

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000		224.2397	224.2397	0.0224	4.6400e-003	226.1489
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000		260.2800	260.2800	0.0260	5.3900e-003	262.4960
NaturalGas Mitigated	0.0106	0.0959	0.0783	5.8000e-004		7.3200e-003	7.3200e-003		7.3200e-003	7.3200e-003		104.8029	104.8029	2.0100e-003	1.9200e-003	105.4407
NaturalGas Unmitigated	0.0130	0.1181	0.0965	7.1000e-004		9.0100e-003	9.0100e-003		9.0100e-003	9.0100e-003		129.0541	129.0541	2.4700e-003	2.3700e-003	129.8395

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	tons/yr										MT/yr					

Apartments Mid Rise	141659	7.6000e-004	6.5300e-003	2.7800e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		7.5595	7.5595	1.4000e-004	1.4000e-004	7.6055
Medical Office Building	1.66575e+006	8.9800e-003	0.0817	0.0686	4.9000e-004		6.2100e-003	6.2100e-003		6.2100e-003	6.2100e-003		88.8907	88.8907	1.7000e-003	1.6300e-003	89.4316
Office Park	610976	3.2900e-003	0.0300	0.0252	1.8000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003		32.6040	32.6040	6.2000e-004	6.0000e-004	32.8024
Unenclosed Parking with Elevators	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		0.0130	0.1181	0.0965	7.1000e-004		9.0200e-003	9.0200e-003		9.0200e-003	9.0200e-003		129.0541	129.0541	2.4600e-003	2.3700e-003	129.8395

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Medical Office Building	1.34918e+006	7.2800e-003	0.0661	0.0556	4.0000e-004		5.0300e-003	5.0300e-003		5.0300e-003	5.0300e-003		71.9975	71.9975	1.3800e-003	1.3200e-003	72.4357
Office Park	496105	2.6800e-003	0.0243	0.0204	1.5000e-004		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		26.4741	26.4741	5.1000e-004	4.9000e-004	26.6352
Unenclosed Parking with Elevators	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
Apartments Mid Rise	118645	6.4000e-004	5.4700e-003	2.3300e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004		6.3314	6.3314	1.2000e-004	1.2000e-004	6.3699
Total		0.0106	0.0959	0.0783	5.8000e-004		7.3200e-003	7.3200e-003		7.3200e-003	7.3200e-003		104.8029	104.8029	2.0100e-003	1.9300e-003	105.4407

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	57845.6	7.6091	7.6000e-004	1.6000e-004	7.6739

Medical Office Building	1.13951e+006	149.8927	0.0150	3.1000e-003	151.1689
Office Park	437574	57.5593	5.7600e-003	1.1900e-003	58.0493
Unenclosed Parking with Electric	343761	45.2189	4.5200e-003	9.4000e-004	45.6039
Total		260.2800	0.0260	5.3900e-003	262.4960

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	54474.4	7.1657	7.2000e-004	1.5000e-004	7.2267
Medical Office Building	990418	130.2814	0.0130	2.7000e-003	131.3906
Office Park	380170	50.0082	5.0000e-003	1.0300e-003	50.4340
Unenclosed Parking with Electric	279641	36.7845	3.6800e-003	7.6000e-004	37.0976
Total		224.2397	0.0224	4.6400e-003	226.1489

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	1.1331	1.8300e-003	0.1527	7.0000e-005		5.5400e-003	5.5400e-003		5.5400e-003	5.5400e-003		0.6213	1.1900	2.1200e-003	2.0000e-005	1.2413

Unmitigated	1.1331	1.8300e-003	0.1527	7.0000e-005		5.5400e-003	5.5400e-003		5.5400e-003	5.5400e-003		0.6213	1.1900	2.1200e-003	2.0000e-005	1.2413
-------------	--------	-------------	--------	-------------	--	-------------	-------------	--	-------------	-------------	--	--------	--------	-------------	-------------	--------

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	0.1340					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9814					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0140	4.4000e-004	0.0318	6.0000e-005		4.8800e-003	4.8800e-003		4.8700e-003	4.8700e-003		0.4231	0.9918	1.9200e-003	2.0000e-005	1.0389
Landscaping	3.7700e-003	1.3900e-003	0.1209	1.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004		0.1983	0.1983	2.0000e-004	0.0000	0.2024
Total	1.1331	1.8300e-003	0.1527	7.0000e-005		5.5500e-003	5.5500e-003		5.5400e-003	5.5400e-003		0.6213	1.1901	2.1200e-003	2.0000e-005	1.2413

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	0.1340					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9814					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0140	4.4000e-004	0.0318	6.0000e-005		4.8800e-003	4.8800e-003		4.8700e-003	4.8700e-003		0.4231	0.9918	1.9200e-003	2.0000e-005	1.0389
Landscaping	3.7700e-003	1.3900e-003	0.1209	1.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004		0.1983	0.1983	2.0000e-004	0.0000	0.2024

Total	1.1331	1.8300e-003	0.1527	7.0000e-005		5.5500e-003	5.5500e-003		5.5400e-003	5.5400e-003		0.6213	1.1901	2.1200e-003	2.0000e-005	1.2413
-------	--------	-------------	--------	-------------	--	-------------	-------------	--	-------------	-------------	--	--------	--------	-------------	-------------	--------

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	20.1740	0.5523	0.0133	35.8938
Unmitigated	20.1740	0.5524	0.0133	35.9023

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	1.04246 / 0.657206	1.3753	0.0341	8.2000e-004	2.3462
Medical Office Building	10.302 / 1.96228	11.5044	0.3365	8.1000e-003	21.0812
Office Park	5.56307 / 3.40962	7.2943	0.1818	4.3900e-003	12.4750
Unenclosed Parking with Paved	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		20.1740	0.5524	0.0133	35.9023

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	1.04246 / 0.657206	1.3753	0.0341	8.2000e-004	2.3457
Medical Office Building	10.302 / 1.96228	11.5044	0.3365	8.0800e-003	21.0760
Office Park	5.56307 / 3.40962	7.2943	0.1818	4.3900e-003	12.4722
Unenclosed Parking with Elavest	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		20.1740	0.5523	0.0133	35.8938

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	183.6433	10.8530	0.0000	411.5564
Unmitigated	187.3911	11.0745	0.0000	419.9556

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	7.36	1.4940	0.0883	0.0000	3.3482
Medical Office Building	886.68	179.9880	10.6370	0.0000	403.3648
Office Park	29.11	5.9091	0.3492	0.0000	13.2426
Unenclosed Parking with Elevators	0	0.0000	0.0000	0.0000	0.0000
Total		187.3911	11.0745	0.0000	419.9556

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	7.2128	1.4641	0.0865	0.0000	3.2812
Medical Office Building	868.946	176.3883	10.4243	0.0000	395.2975
Office Park	28.5278	5.7909	0.3422	0.0000	12.9778
Unenclosed Parking with Elevators	0	0.0000	0.0000	0.0000	0.0000
Total		183.6433	10.8530	0.0000	411.5564

9.0 Operational Offroad

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

10.0 Vegetation

Phase 2 Buildout -- Hospital Buildings

Bay Area AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	144.42	1000sqft	3.32	144,423.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2024
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor 290

Land Use - 144,423 square feet

Vehicle Trips - Trip Rate = 4.7 (680 trips) See TIA (other caleemod runs include 240 trips for med office, 310 trips for office) total trip generation -= 1230

Energy Mitigation - CalGreen Standards = 10 percent increase in efficiency

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblLandUse	LandUseSquareFeet	144,420.00	144,423.00

tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	OperationalYear	2014	2024
tblVehicleTrips	ST_TR	10.18	4.70
tblVehicleTrips	SU_TR	8.91	4.70
tblVehicleTrips	WD_TR	16.50	4.70

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	5.3432	57.0104	43.7529	0.0415	18.2360	3.0897	21.3257	9.9757	2.8425	12.8183		4,279.3711	4,279.3711	1.2374	0.0000	4,305.3564
2016	186.3504	31.2181	25.3659	0.0375	0.5933	2.0070	2.6003	0.1606	1.8848	2.0454		3,652.5703	3,652.5703	0.6897	0.0000	3,667.0536
Total	191.6936	88.2284	69.1188	0.0790	18.8293	5.0967	23.9260	10.1363	4.7274	14.8637		7,931.9414	7,931.9414	1.9271	0.0000	7,972.4101

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	5.3432	57.0104	43.7529	0.0415	18.2360	3.0897	21.3257	9.9757	2.8425	12.8183		4,279.3711	4,279.3711	1.2374	0.0000	4,305.3564
2016	186.3504	31.2181	25.3659	0.0375	0.5933	2.0070	2.6003	0.1606	1.8848	2.0454		3,652.5703	3,652.5703	0.6897	0.0000	3,667.0536

Total	191.6936	88.2284	69.1188	0.0790	18.8293	5.0967	23.9260	10.1363	4.7274	14.8637		7,931.9414	7,931.9414	1.9271	0.0000	7,972.4101
-------	----------	---------	---------	--------	---------	--------	---------	---------	--------	---------	--	------------	------------	--------	--------	------------

	ROG	NOx	CO	SO2	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

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	3.5047	1.3000e-004	0.0147	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0316	0.0316	8.0000e-005		0.0333
Energy	0.4315	3.9227	3.2950	0.0235		0.2981	0.2981		0.2981	0.2981		4,707.1890	4,707.1890	0.0902	0.0863	4,735.8361
Mobile	1.7002	3.3705	17.5351	0.0498	3.6310	0.0632	3.6942	0.9713	0.0583	1.0297		3,676.6035	3,676.6035	0.1190		3,679.1019
Total	5.6364	7.2933	20.8449	0.0733	3.6310	0.3614	3.9924	0.9713	0.3565	1.3278		8,383.8241	8,383.8241	0.2093	0.0863	8,414.9713

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	3.5047	1.3000e-004	0.0147	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0316	0.0316	8.0000e-005		0.0333
Energy	0.3951	3.5917	3.0170	0.0216		0.2730	0.2730		0.2730	0.2730		4,310.0199	4,310.0199	0.0826	0.0790	4,336.2500
Mobile	1.7002	3.3705	17.5351	0.0498	3.6310	0.0632	3.6942	0.9713	0.0583	1.0297		3,676.6035	3,676.6035	0.1190		3,679.1019

Total	5.6000	6.9623	20.5668	0.0713	3.6310	0.3362	3.9673	0.9713	0.3314	1.3027		7,986.6550	7,986.6550	0.2017	0.0790	8,015.3852
-------	--------	--------	---------	--------	--------	--------	--------	--------	--------	--------	--	------------	------------	--------	--------	------------

	ROG	NOx	CO	SO2	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	0.65	4.54	1.33	2.71	0.00	6.96	0.63	0.00	7.05	1.89	0.00	4.74	4.74	3.64	8.44	4.75

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/28/2015	5	20	
2	Site Preparation	Site Preparation	1/29/2015	2/4/2015	5	5	
3	Grading	Grading	2/5/2015	2/16/2015	5	8	
4	Building Construction	Building Construction	2/17/2015	1/4/2016	5	230	
5	Paving	Paving	1/5/2016	1/28/2016	5	18	
6	Architectural Coating	Architectural Coating	1/29/2016	2/23/2016	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 216,635; Non-Residential Outdoor: 72,212 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	46.00	24.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886
Total	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617
Total	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617

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	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886
Total	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617
Total	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617

3.3 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412		4,111.7444	4,111.7444	1.2275		4,137.5225
Total	5.2609	56.8897	42.6318	0.0391	18.0663	3.0883	21.1545	9.9307	2.8412	12.7719		4,111.7444	4,111.7444	1.2275		4,137.5225

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0823	0.1207	1.1212	1.9300e-003	0.1698	1.4500e-003	0.1712	0.0450	1.3200e-003	0.0463		167.6267	167.6267	9.8700e-003		167.8340
Total	0.0823	0.1207	1.1212	1.9300e-003	0.1698	1.4500e-003	0.1712	0.0450	1.3200e-003	0.0463		167.6267	167.6267	9.8700e-003		167.8340

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412		4,111.7444	4,111.7444	1.2275		4,137.5224
Total	5.2609	56.8897	42.6318	0.0391	18.0663	3.0883	21.1545	9.9307	2.8412	12.7719		4,111.7444	4,111.7444	1.2275		4,137.5224

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
--	-----	-----	----	-----	---------------	--------------	------------	----------------	---------------	-------------	----------	-----------	-----------	-----	-----	------

Total	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617
-------	--------	--------	--------	-------------	--------	-------------	--------	--------	-------------	--------	--	----------	----------	-------------	--	----------

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	3.8327	40.4161	26.6731	0.0298		2.3284	2.3284		2.1421	2.1421		3,129.0158	3,129.0158	0.9341		3,148.6328
Total	3.8327	40.4161	26.6731	0.0298	6.5523	2.3284	8.8807	3.3675	2.1421	5.5096		3,129.0158	3,129.0158	0.9341		3,148.6328

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617
Total	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617

3.5 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3871	2.8006	4.5806	5.7200e-003	0.1595	0.0452	0.2047	0.0456	0.0415	0.0871		576.2883	576.2883	5.2700e-003		576.3990
Worker	0.2102	0.3085	2.8652	4.9300e-003	0.4338	3.7000e-003	0.4375	0.1151	3.3800e-003	0.1184		428.3794	428.3794	0.0252		428.9091
Total	0.5973	3.1091	7.4458	0.0107	0.5933	0.0489	0.6422	0.1606	0.0449	0.2055		1,004.6677	1,004.6677	0.0305		1,005.3081

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	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3871	2.8006	4.5806	5.7200e-003	0.1595	0.0452	0.2047	0.0456	0.0415	0.0871		576.2883	576.2883	5.2700e-003		576.3990
Worker	0.2102	0.3085	2.8652	4.9300e-003	0.4338	3.7000e-003	0.4375	0.1151	3.3800e-003	0.1184		428.3794	428.3794	0.0252		428.9091
Total	0.5973	3.1091	7.4458	0.0107	0.5933	0.0489	0.6422	0.1606	0.0449	0.2055		1,004.6677	1,004.6677	0.0305		1,005.3081

3.5 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3443	2.4353	4.3077	5.7100e-003	0.1596	0.0361	0.1956	0.0456	0.0332	0.0787		569.5783	569.5783	4.6600e-003		569.6762
Worker	0.1876	0.2764	2.5516	4.9300e-003	0.4338	3.4900e-003	0.4373	0.1151	3.2000e-003	0.1183		413.7056	413.7056	0.0230		414.1884
Total	0.5320	2.7117	6.8592	0.0106	0.5933	0.0396	0.6329	0.1606	0.0364	0.1970		983.2839	983.2839	0.0277		983.8646

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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890

Mitigated Construction Off-Site

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

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3443	2.4353	4.3077	5.7100e-003	0.1596	0.0361	0.1956	0.0456	0.0332	0.0787		569.5783	569.5783	4.6600e-003		569.6762
Worker	0.1876	0.2764	2.5516	4.9300e-003	0.4338	3.4900e-003	0.4373	0.1151	3.2000e-003	0.1183		413.7056	413.7056	0.0230		414.1884
Total	0.5320	2.7117	6.8592	0.0106	0.5933	0.0396	0.6329	0.1606	0.0364	0.1970		983.2839	983.2839	0.0277		983.8646

3.6 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7956	18.3417	12.5623	0.0186		1.1065	1.1065		1.0198	1.0198		1,902.2212	1,902.2212	0.5588		1,913.9557
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.7956	18.3417	12.5623	0.0186		1.1065	1.1065		1.0198	1.0198		1,902.2212	1,902.2212	0.5588		1,913.9557

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0816	0.1202	1.1094	2.1400e-003	0.1886	1.5200e-003	0.1901	0.0500	1.3900e-003	0.0514		179.8720	179.8720	0.0100		180.0819

Total	0.0816	0.1202	1.1094	2.1400e-003	0.1886	1.5200e-003	0.1901	0.0500	1.3900e-003	0.0514		179.8720	179.8720	0.0100		180.0819
-------	--------	--------	--------	-------------	--------	-------------	--------	--------	-------------	--------	--	----------	----------	--------	--	----------

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	1.7956	18.3417	12.5623	0.0186		1.1065	1.1065		1.0198	1.0198		1,902.2212	1,902.2212	0.5588		1,913.9557
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.7956	18.3417	12.5623	0.0186		1.1065	1.1065		1.0198	1.0198		1,902.2212	1,902.2212	0.5588		1,913.9557

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0816	0.1202	1.1094	2.1400e-003	0.1886	1.5200e-003	0.1901	0.0500	1.3900e-003	0.0514		179.8720	179.8720	0.0100		180.0819
Total	0.0816	0.1202	1.1094	2.1400e-003	0.1886	1.5200e-003	0.1901	0.0500	1.3900e-003	0.0514		179.8720	179.8720	0.0100		180.0819

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	185.9453					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	186.3137	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0367	0.0541	0.4992	9.6000e-004	0.0849	6.8000e-004	0.0856	0.0225	6.3000e-004	0.0231		80.9424	80.9424	4.5000e-003		81.0369
Total	0.0367	0.0541	0.4992	9.6000e-004	0.0849	6.8000e-004	0.0856	0.0225	6.3000e-004	0.0231		80.9424	80.9424	4.5000e-003		81.0369

Mitigated Construction On-Site

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

Archit. Coating	185.9453					0.0000	0.0000			0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966			0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	186.3137	2.3722	1.8839	2.9700e-003		0.1966	0.1966			0.1966	0.1966		281.4481	281.4481	0.0332		282.1449

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0367	0.0541	0.4992	9.6000e-004	0.0849	6.8000e-004	0.0856	0.0225	6.3000e-004	0.0231		80.9424	80.9424	4.5000e-003		81.0369
Total	0.0367	0.0541	0.4992	9.6000e-004	0.0849	6.8000e-004	0.0856	0.0225	6.3000e-004	0.0231		80.9424	80.9424	4.5000e-003		81.0369

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	1.7002	3.3705	17.5351	0.0498	3.6310	0.0632	3.6942	0.9713	0.0583	1.0297		3,676.6035	3,676.6035	0.1190		3,679.1019
Unmitigated	1.7002	3.3705	17.5351	0.0498	3.6310	0.0632	3.6942	0.9713	0.0583	1.0297		3,676.6035	3,676.6035	0.1190		3,679.1019

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hospital	678.77	678.77	678.77	1,709,449	1,709,449
Total	678.77	678.77	678.77	1,709,449	1,709,449

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hospital	9.50	7.30	7.30	64.90	16.10	19.00	73	25	2

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.546360	0.063107	0.173950	0.120854	0.033649	0.004805	0.015980	0.026900	0.002132	0.003198	0.006795	0.000619	0.001651

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive 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	0.3951	3.5917	3.0170	0.0216		0.2730	0.2730		0.2730	0.2730		4,310.0199	4,310.0199	0.0826	0.0790	4,336.2500

NaturalGas Unmitigated	0.4315	3.9227	3.2950	0.0235		0.2981	0.2981		0.2981	0.2981		4,707.1890	4,707.1890	0.0902	0.0863	4,735.8361
---------------------------	--------	--------	--------	--------	--	--------	--------	--	--------	--------	--	------------	------------	--------	--------	------------

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					
Hospital	40011.1	0.4315	3.9227	3.2950	0.0235		0.2981	0.2981		0.2981	0.2981		4,707.1890	4,707.1890	0.0902	0.0863	4,735.8361
Total		0.4315	3.9227	3.2950	0.0235		0.2981	0.2981		0.2981	0.2981		4,707.1890	4,707.1890	0.0902	0.0863	4,735.8361

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					
Hospital	36.6352	0.3951	3.5917	3.0170	0.0216		0.2730	0.2730		0.2730	0.2730		4,310.0199	4,310.0199	0.0826	0.0790	4,336.2500
Total		0.3951	3.5917	3.0170	0.0216		0.2730	0.2730		0.2730	0.2730		4,310.0199	4,310.0199	0.0826	0.0790	4,336.2500

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	3.5047	1.3000e-004	0.0147	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0316	0.0316	8.0000e-005		0.0333
Unmitigated	3.5047	1.3000e-004	0.0147	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0316	0.0316	8.0000e-005		0.0333

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	0.4127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0907					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3600e-003	1.3000e-004	0.0147	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0316	0.0316	8.0000e-005		0.0333
Total	3.5047	1.3000e-004	0.0147	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0316	0.0316	8.0000e-005		0.0333

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	0.4127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0907					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3600e-003	1.3000e-004	0.0147	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0316	0.0316	8.0000e-005		0.0333
Total	3.5047	1.3000e-004	0.0147	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0316	0.0316	8.0000e-005		0.0333

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Vegetation

Phase 2 Buildout -- Hospital Buildings
Bay Area AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	144.42	1000sqft	3.32	144,423.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2024
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor 290

Land Use - 144,423 square feet

Vehicle Trips - Trip Rate = 4.7 (680 trips) See TIA (other caleemod runs include 240 trips for med office, 310 trips for office) total trip generation -= 1230

Energy Mitigation - CalGreen Standards = 10 percent increase in efficiency

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblLandUse	LandUseSquareFeet	144,420.00	144,423.00

tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	OperationalYear	2014	2024
tblVehicleTrips	ST_TR	10.18	4.70
tblVehicleTrips	SU_TR	8.91	4.70
tblVehicleTrips	WD_TR	16.50	4.70

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	5.3422	56.9873	43.7710	0.0417	18.2360	3.0897	21.3257	9.9757	2.8425	12.8183		4,293.3973	4,293.3973	1.2374	0.0000	4,319.3826
2016	186.3502	31.0556	23.8927	0.0379	0.5933	2.0066	2.5999	0.1606	1.8845	2.0451		3,691.6263	3,691.6263	0.6896	0.0000	3,706.1073
Total	191.6924	88.0429	67.6637	0.0795	18.8293	5.0963	23.9257	10.1363	4.7270	14.8634		7,985.0236	7,985.0236	1.9270	0.0000	8,025.4899

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	5.3422	56.9873	43.7710	0.0417	18.2360	3.0897	21.3257	9.9757	2.8425	12.8183		4,293.3973	4,293.3973	1.2374	0.0000	4,319.3826
2016	186.3502	31.0556	23.8927	0.0379	0.5933	2.0066	2.5999	0.1606	1.8845	2.0451		3,691.6263	3,691.6263	0.6896	0.0000	3,706.1073

Total	191.6924	88.0429	67.6637	0.0795	18.8293	5.0963	23.9257	10.1363	4.7270	14.8634		7,985.0236	7,985.0236	1.9270	0.0000	8,025.4899
-------	----------	---------	---------	--------	---------	--------	---------	---------	--------	---------	--	------------	------------	--------	--------	------------

	ROG	NOx	CO	SO2	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

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	3.5047	1.3000e-004	0.0147	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0316	0.0316	8.0000e-005		0.0333
Energy	0.4315	3.9227	3.2950	0.0235		0.2981	0.2981		0.2981	0.2981		4,707.1890	4,707.1890	0.0902	0.0863	4,735.8361
Mobile	1.6444	3.0254	15.3661	0.0530	3.6310	0.0630	3.6940	0.9713	0.0581	1.0295		3,902.7688	3,902.7688	0.1188		3,905.2631
Total	5.5805	6.9482	18.6759	0.0766	3.6310	0.3612	3.9922	0.9713	0.3563	1.3276		8,609.9894	8,609.9894	0.2091	0.0863	8,641.1325

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	3.5047	1.3000e-004	0.0147	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0316	0.0316	8.0000e-005		0.0333
Energy	0.3951	3.5917	3.0170	0.0216		0.2730	0.2730		0.2730	0.2730		4,310.0199	4,310.0199	0.0826	0.0790	4,336.2500
Mobile	1.6444	3.0254	15.3661	0.0530	3.6310	0.0630	3.6940	0.9713	0.0581	1.0295		3,902.7688	3,902.7688	0.1188		3,905.2631

Total	5.5441	6.6172	18.3978	0.0746	3.6310	0.3360	3.9670	0.9713	0.3312	1.3025		8,212.8203	8,212.8203	0.2015	0.0790	8,241.5464
-------	--------	--------	---------	--------	--------	--------	--------	--------	--------	--------	--	------------	------------	--------	--------	------------

	ROG	NOx	CO	SO2	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	0.65	4.76	1.49	2.60	0.00	6.96	0.63	0.00	7.06	1.89	0.00	4.61	4.61	3.64	8.44	4.62

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/28/2015	5	20	
2	Site Preparation	Site Preparation	1/29/2015	2/4/2015	5	5	
3	Grading	Grading	2/5/2015	2/16/2015	5	8	
4	Building Construction	Building Construction	2/17/2015	1/4/2016	5	230	
5	Paving	Paving	1/5/2016	1/28/2016	5	18	
6	Architectural Coating	Architectural Coating	1/29/2016	2/23/2016	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 216,635; Non-Residential Outdoor: 72,212 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	46.00	24.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886
Total	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501
Total	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501

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	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886
Total	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501
Total	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501

3.3 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412		4,111.7444	4,111.7444	1.2275		4,137.5225
Total	5.2609	56.8897	42.6318	0.0391	18.0663	3.0883	21.1545	9.9307	2.8412	12.7719		4,111.7444	4,111.7444	1.2275		4,137.5225

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0812	0.0976	1.1392	2.0900e-003	0.1698	1.4500e-003	0.1712	0.0450	1.3200e-003	0.0463		181.6529	181.6529	9.8700e-003		181.8602
Total	0.0812	0.0976	1.1392	2.0900e-003	0.1698	1.4500e-003	0.1712	0.0450	1.3200e-003	0.0463		181.6529	181.6529	9.8700e-003		181.8602

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412		4,111.7444	4,111.7444	1.2275		4,137.5224
Total	5.2609	56.8897	42.6318	0.0391	18.0663	3.0883	21.1545	9.9307	2.8412	12.7719		4,111.7444	4,111.7444	1.2275		4,137.5224

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
--	-----	-----	----	-----	---------------	--------------	------------	----------------	---------------	-------------	----------	-----------	-----------	-----	-----	------

Total	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501
-------	--------	--------	--------	-------------	--------	-------------	--------	--------	-------------	--------	--	----------	----------	-------------	--	----------

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	3.8327	40.4161	26.6731	0.0298		2.3284	2.3284		2.1421	2.1421		3,129.0158	3,129.0158	0.9341		3,148.6328
Total	3.8327	40.4161	26.6731	0.0298	6.5523	2.3284	8.8807	3.3675	2.1421	5.5096		3,129.0158	3,129.0158	0.9341		3,148.6328

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501
Total	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501

3.5 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3046	2.6736	3.0206	5.7400e-003	0.1595	0.0446	0.2042	0.0456	0.0410	0.0866		580.7049	580.7049	5.1500e-003		580.8131
Worker	0.2076	0.2494	2.9114	5.3400e-003	0.4338	3.7000e-003	0.4375	0.1151	3.3800e-003	0.1184		464.2241	464.2241	0.0252		464.7538
Total	0.5122	2.9230	5.9319	0.0111	0.5933	0.0483	0.6417	0.1606	0.0444	0.2050		1,044.9290	1,044.9290	0.0304		1,045.5669

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	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3046	2.6736	3.0206	5.7400e-003	0.1595	0.0446	0.2042	0.0456	0.0410	0.0866		580.7049	580.7049	5.1500e-003		580.8131
Worker	0.2076	0.2494	2.9114	5.3400e-003	0.4338	3.7000e-003	0.4375	0.1151	3.3800e-003	0.1184		464.2241	464.2241	0.0252		464.7538
Total	0.5122	2.9230	5.9319	0.0111	0.5933	0.0483	0.6417	0.1606	0.0444	0.2050		1,044.9290	1,044.9290	0.0304		1,045.5669

3.5 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2713	2.3259	2.7751	5.7300e-003	0.1596	0.0357	0.1953	0.0456	0.0328	0.0784		573.9674	573.9674	4.5500e-003		574.0629
Worker	0.1866	0.2234	2.6110	5.3400e-003	0.4338	3.4900e-003	0.4373	0.1151	3.2000e-003	0.1183		448.3725	448.3725	0.0230		448.8554
Total	0.4580	2.5493	5.3860	0.0111	0.5933	0.0392	0.6325	0.1606	0.0360	0.1966		1,022.3399	1,022.3399	0.0275		1,022.9183

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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890

Mitigated Construction Off-Site

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

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2713	2.3259	2.7751	5.7300e-003	0.1596	0.0357	0.1953	0.0456	0.0328	0.0784		573.9674	573.9674	4.5500e-003		574.0629
Worker	0.1866	0.2234	2.6110	5.3400e-003	0.4338	3.4900e-003	0.4373	0.1151	3.2000e-003	0.1183		448.3725	448.3725	0.0230		448.8554
Total	0.4580	2.5493	5.3860	0.0111	0.5933	0.0392	0.6325	0.1606	0.0360	0.1966		1,022.3399	1,022.3399	0.0275		1,022.9183

3.6 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7956	18.3417	12.5623	0.0186		1.1065	1.1065		1.0198	1.0198		1,902.2212	1,902.2212	0.5588		1,913.9557
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.7956	18.3417	12.5623	0.0186		1.1065	1.1065		1.0198	1.0198		1,902.2212	1,902.2212	0.5588		1,913.9557

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0811	0.0971	1.1352	2.3200e-003	0.1886	1.5200e-003	0.1901	0.0500	1.3900e-003	0.0514		194.9446	194.9446	0.0100		195.1545

Total	0.0811	0.0971	1.1352	2.3200e-003	0.1886	1.5200e-003	0.1901	0.0500	1.3900e-003	0.0514		194.9446	194.9446	0.0100		195.1545
-------	--------	--------	--------	-------------	--------	-------------	--------	--------	-------------	--------	--	----------	----------	--------	--	----------

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	1.7956	18.3417	12.5623	0.0186		1.1065	1.1065		1.0198	1.0198		1,902.2212	1,902.2212	0.5588		1,913.9557
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.7956	18.3417	12.5623	0.0186		1.1065	1.1065		1.0198	1.0198		1,902.2212	1,902.2212	0.5588		1,913.9557

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0811	0.0971	1.1352	2.3200e-003	0.1886	1.5200e-003	0.1901	0.0500	1.3900e-003	0.0514		194.9446	194.9446	0.0100		195.1545
Total	0.0811	0.0971	1.1352	2.3200e-003	0.1886	1.5200e-003	0.1901	0.0500	1.3900e-003	0.0514		194.9446	194.9446	0.0100		195.1545

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	185.9453					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	186.3137	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0365	0.0437	0.5108	1.0400e-003	0.0849	6.8000e-004	0.0856	0.0225	6.3000e-004	0.0231		87.7251	87.7251	4.5000e-003		87.8195
Total	0.0365	0.0437	0.5108	1.0400e-003	0.0849	6.8000e-004	0.0856	0.0225	6.3000e-004	0.0231		87.7251	87.7251	4.5000e-003		87.8195

Mitigated Construction On-Site

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

Archit. Coating	185.9453					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	186.3137	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0365	0.0437	0.5108	1.0400e-003	0.0849	6.8000e-004	0.0856	0.0225	6.3000e-004	0.0231		87.7251	87.7251	4.5000e-003		87.8195
Total	0.0365	0.0437	0.5108	1.0400e-003	0.0849	6.8000e-004	0.0856	0.0225	6.3000e-004	0.0231		87.7251	87.7251	4.5000e-003		87.8195

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	1.6444	3.0254	15.3661	0.0530	3.6310	0.0630	3.6940	0.9713	0.0581	1.0295		3,902.7688	3,902.7688	0.1188		3,905.2631
Unmitigated	1.6444	3.0254	15.3661	0.0530	3.6310	0.0630	3.6940	0.9713	0.0581	1.0295		3,902.7688	3,902.7688	0.1188		3,905.2631

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hospital	678.77	678.77	678.77	1,709,449	1,709,449
Total	678.77	678.77	678.77	1,709,449	1,709,449

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hospital	9.50	7.30	7.30	64.90	16.10	19.00	73	25	2

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.546360	0.063107	0.173950	0.120854	0.033649	0.004805	0.015980	0.026900	0.002132	0.003198	0.006795	0.000619	0.001651

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive 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	0.3951	3.5917	3.0170	0.0216		0.2730	0.2730		0.2730	0.2730		4,310.0199	4,310.0199	0.0826	0.0790	4,336.2500

NaturalGas Unmitigated	0.4315	3.9227	3.2950	0.0235		0.2981	0.2981		0.2981	0.2981		4,707.1890	4,707.1890	0.0902	0.0863	4,735.8361
---------------------------	--------	--------	--------	--------	--	--------	--------	--	--------	--------	--	------------	------------	--------	--------	------------

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					
Hospital	40011.1	0.4315	3.9227	3.2950	0.0235		0.2981	0.2981		0.2981	0.2981		4,707.1890	4,707.1890	0.0902	0.0863	4,735.8361
Total		0.4315	3.9227	3.2950	0.0235		0.2981	0.2981		0.2981	0.2981		4,707.1890	4,707.1890	0.0902	0.0863	4,735.8361

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					
Hospital	36.6352	0.3951	3.5917	3.0170	0.0216		0.2730	0.2730		0.2730	0.2730		4,310.0199	4,310.0199	0.0826	0.0790	4,336.2500
Total		0.3951	3.5917	3.0170	0.0216		0.2730	0.2730		0.2730	0.2730		4,310.0199	4,310.0199	0.0826	0.0790	4,336.2500

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	3.5047	1.3000e-004	0.0147	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0316	0.0316	8.0000e-005		0.0333
Unmitigated	3.5047	1.3000e-004	0.0147	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0316	0.0316	8.0000e-005		0.0333

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	0.4127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0907					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3600e-003	1.3000e-004	0.0147	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0316	0.0316	8.0000e-005		0.0333
Total	3.5047	1.3000e-004	0.0147	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0316	0.0316	8.0000e-005		0.0333

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	0.4127					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0907					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3600e-003	1.3000e-004	0.0147	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0316	0.0316	8.0000e-005		0.0333
Total	3.5047	1.3000e-004	0.0147	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0316	0.0316	8.0000e-005		0.0333

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Vegetation

Phase 2 Buildout -- Hospital Buildings

Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	144.42	1000sqft	3.32	144,423.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2024
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor 290

Land Use - 144,423 square feet

Vehicle Trips - Trip Rate = 4.7 (680 trips) See TIA (other caleemod runs include 240 trips for med office, 310 trips for office) total trip generation -= 1230

Energy Mitigation - CalGreen Standards = 10 percent increase in efficiency

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblLandUse	LandUseSquareFeet	144,420.00	144,423.00

tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	OperationalYear	2014	2024
tblVehicleTrips	ST_TR	10.18	4.70
tblVehicleTrips	SU_TR	8.91	4.70
tblVehicleTrips	WD_TR	16.50	4.70

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	0.5531	4.5600	3.4724	4.9200e-003	0.1389	0.2884	0.4273	0.0566	0.2705	0.3272		443.0108	443.0108	0.0894	0.0000	444.8880
2016	1.6979	0.2190	0.1684	2.6000e-004	2.9400e-003	0.0138	0.0167	7.9000e-004	0.0129	0.0136		23.2967	23.2967	5.5800e-003	0.0000	23.4138
Total	2.2510	4.7790	3.6409	5.1800e-003	0.1418	0.3022	0.4440	0.0574	0.2834	0.3408		466.3075	466.3075	0.0950	0.0000	468.3018

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	0.5531	4.5600	3.4724	4.9200e-003	0.1389	0.2884	0.4273	0.0566	0.2705	0.3272		443.0104	443.0104	0.0894	0.0000	444.8876
2016	1.6979	0.2190	0.1684	2.6000e-004	2.9400e-003	0.0138	0.0167	7.9000e-004	0.0129	0.0136		23.2967	23.2967	5.5800e-003	0.0000	23.4138

Total	2.2510	4.7790	3.6409	5.1800e-003	0.1418	0.3022	0.4440	0.0574	0.2834	0.3408		466.3071	466.3071	0.0950	0.0000	468.3013
-------	--------	--------	--------	-------------	--------	--------	--------	--------	--------	--------	--	----------	----------	--------	--------	----------

[illegible]

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	0.6395	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5800e-003	2.5800e-003	1.0000e-005	0.0000	2.7200e-003
Energy	0.0788	0.7159	0.6013	4.3000e-003		0.0544	0.0544		0.0544	0.0544		1,098.1087	1,098.1087	0.0468	0.0209	1,105.5655
Mobile	0.2894	0.5877	2.9028	9.1100e-003	0.6361	0.0115	0.6476	0.1707	0.0106	0.1813		610.7364	610.7364	0.0196	0.0000	611.1480
Waste						0.0000	0.0000		0.0000	0.0000		0.0000	316.6131	18.7113	0.0000	709.5504
Water						0.0000	0.0000		0.0000	0.0000		14.4879	20.2371	0.5920	0.0142	37.0833
Total	1.0076	1.3036	3.5054	0.0134	0.6361	0.0659	0.7020	0.1707	0.0650	0.2357		1,723.3355	2,045.6978	19.3697	0.0351	2,463.3500

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	0.6395	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5800e-003	2.5800e-003	1.0000e-005	0.0000	2.7200e-003

Energy	0.0721	0.6555	0.5506	3.9300e-003		0.0498	0.0498		0.0498	0.0498		1,010.9615	1,010.9615	0.0434	0.0192	1,017.8361
Mobile	0.2894	0.5877	2.9028	9.1100e-003	0.6361	0.0115	0.6476	0.1707	0.0106	0.1813		610.7364	610.7364	0.0196	0.0000	611.1480
Waste						0.0000	0.0000		0.0000	0.0000		0.0000	310.2809	18.3371	0.0000	695.3594
Water						0.0000	0.0000		0.0000	0.0000		14.4879	20.2371	0.5918	0.0142	37.0742
Total	1.0010	1.2432	3.4547	0.0130	0.6361	0.0613	0.6974	0.1707	0.0604	0.2311		1,636.1883	1,952.2184	18.9919	0.0335	2,361.4204

	ROG	NOx	CO	SO2	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	0.66	4.63	1.45	2.76	0.00	6.97	0.65	0.00	7.06	1.95	0.00	5.06	4.57	1.95	4.73	4.14

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/28/2015	5	20	
2	Site Preparation	Site Preparation	1/29/2015	2/4/2015	5	5	
3	Grading	Grading	2/5/2015	2/16/2015	5	8	
4	Building Construction	Building Construction	2/17/2015	1/4/2016	5	230	
5	Paving	Paving	1/5/2016	1/28/2016	5	18	
6	Architectural Coating	Architectural Coating	1/29/2016	2/23/2016	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 216,635; Non-Residential Outdoor: 72,212 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
------------	------------------------	--------	-------------	-------------	-------------

Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	46.00	24.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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	0.0451	0.4836	0.3607	4.0000e-004		0.0245	0.0245		0.0229	0.0229		37.4413	37.4413	0.0102	0.0000	37.6544
Total	0.0451	0.4836	0.3607	4.0000e-004		0.0245	0.0245		0.0229	0.0229		37.4413	37.4413	0.0102	0.0000	37.6544

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-004	9.2000e-004	8.9400e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2786	1.2786	7.0000e-005	0.0000	1.2801
Total	6.4000e-004	9.2000e-004	8.9400e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2786	1.2786	7.0000e-005	0.0000	1.2801

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	0.0451	0.4836	0.3607	4.0000e-004		0.0245	0.0245		0.0229	0.0229		37.4412	37.4412	0.0102	0.0000	37.6544
Total	0.0451	0.4836	0.3607	4.0000e-004		0.0245	0.0245		0.0229	0.0229		37.4412	37.4412	0.0102	0.0000	37.6544

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-004	9.2000e-004	8.9400e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2786	1.2786	7.0000e-005	0.0000	1.2801
Total	6.4000e-004	9.2000e-004	8.9400e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2786	1.2786	7.0000e-005	0.0000	1.2801

3.3 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					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0132	0.1422	0.1066	1.0000e-004		7.7200e-003	7.7200e-003		7.1000e-003	7.1000e-003		9.3253	9.3253	2.7800e-003	0.0000	9.3837
Total	0.0132	0.1422	0.1066	1.0000e-004	0.0452	7.7200e-003	0.0529	0.0248	7.1000e-003	0.0319		9.3253	9.3253	2.7800e-003	0.0000	9.3837

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	2.8000e-004	2.6800e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004		0.3836	0.3836	2.0000e-005	0.0000	0.3840
Total	1.9000e-004	2.8000e-004	2.6800e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004		0.3836	0.3836	2.0000e-005	0.0000	0.3840

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					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0132	0.1422	0.1066	1.0000e-004		7.7200e-003	7.7200e-003		7.1000e-003	7.1000e-003		9.3253	9.3253	2.7800e-003	0.0000	9.3837
Total	0.0132	0.1422	0.1066	1.0000e-004	0.0452	7.7200e-003	0.0529	0.0248	7.1000e-003	0.0319		9.3253	9.3253	2.7800e-003	0.0000	9.3837

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	2.8000e-004	2.6800e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004		0.3836	0.3836	2.0000e-005	0.0000	0.3840
Total	1.9000e-004	2.8000e-004	2.6800e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004		0.3836	0.3836	2.0000e-005	0.0000	0.3840

3.4 Grading - 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					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0153	0.1617	0.1067	1.2000e-004		9.3100e-003	9.3100e-003		8.5700e-003	8.5700e-003		11.3544	11.3544	3.3900e-003	0.0000	11.4256
Total	0.0153	0.1617	0.1067	1.2000e-004	0.0262	9.3100e-003	0.0355	0.0135	8.5700e-003	0.0220		11.3544	11.3544	3.3900e-003	0.0000	11.4256

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	3.7000e-004	3.5800e-003	1.0000e-005	5.4000e-004	0.0000	5.5000e-004	1.4000e-004	0.0000	1.5000e-004		0.5114	0.5114	3.0000e-005	0.0000	0.5121
Total	2.5000e-004	3.7000e-004	3.5800e-003	1.0000e-005	5.4000e-004	0.0000	5.5000e-004	1.4000e-004	0.0000	1.5000e-004		0.5114	0.5114	3.0000e-005	0.0000	0.5121

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					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0153	0.1617	0.1067	1.2000e-004		9.3100e-003	9.3100e-003		8.5700e-003	8.5700e-003		11.3544	11.3544	3.3900e-003	0.0000	11.4256
Total	0.0153	0.1617	0.1067	1.2000e-004	0.0262	9.3100e-003	0.0355	0.0135	8.5700e-003	0.0220		11.3544	11.3544	3.3900e-003	0.0000	11.4256

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	3.7000e-004	3.5800e-003	1.0000e-005	5.4000e-004	0.0000	5.5000e-004	1.4000e-004	0.0000	1.5000e-004		0.5114	0.5114	3.0000e-005	0.0000	0.5121

Total	2.5000e-004	3.7000e-004	3.5800e-003	1.0000e-005	5.4000e-004	0.0000	5.5000e-004	1.4000e-004	0.0000	1.5000e-004		0.5114	0.5114	3.0000e-005	0.0000	0.5121
-------	-------------	-------------	-------------	-------------	-------------	--------	-------------	-------------	--------	-------------	--	--------	--------	-------------	--------	--------

3.5 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4171	3.4234	2.1369	3.0600e-003		0.2413	0.2413		0.2269	0.2269		278.1535	278.1535	0.0698	0.0000	279.6191
Total	0.4171	3.4234	2.1369	3.0600e-003		0.2413	0.2413		0.2269	0.2269		278.1535	278.1535	0.0698	0.0000	279.6191

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0391	0.3153	0.4338	6.5000e-004	0.0176	5.1100e-003	0.0227	5.0500e-003	4.7000e-003	9.7500e-003		59.8641	59.8641	5.4000e-004	0.0000	59.8754
Worker	0.0222	0.0322	0.3126	5.7000e-004	0.0476	4.2000e-004	0.0480	0.0127	3.9000e-004	0.0130		44.6987	44.6987	2.6100e-003	0.0000	44.7535
Total	0.0614	0.3475	0.7464	1.2200e-003	0.0652	5.5300e-003	0.0707	0.0177	5.0900e-003	0.0228		104.5628	104.5628	3.1500e-003	0.0000	104.6289

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	0.4171	3.4234	2.1369	3.0600e-003		0.2413	0.2413		0.2269	0.2269		278.1532	278.1532	0.0698	0.0000	279.6188
Total	0.4171	3.4234	2.1369	3.0600e-003		0.2413	0.2413		0.2269	0.2269		278.1532	278.1532	0.0698	0.0000	279.6188

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0391	0.3153	0.4338	6.5000e-004	0.0176	5.1100e-003	0.0227	5.0500e-003	4.7000e-003	9.7500e-003		59.8641	59.8641	5.4000e-004	0.0000	59.8754
Worker	0.0222	0.0322	0.3126	5.7000e-004	0.0476	4.2000e-004	0.0480	0.0127	3.9000e-004	0.0130		44.6987	44.6987	2.6100e-003	0.0000	44.7535
Total	0.0614	0.3475	0.7464	1.2200e-003	0.0652	5.5300e-003	0.0707	0.0177	5.0900e-003	0.0228		104.5628	104.5628	3.1500e-003	0.0000	104.6289

3.5 Building Construction - 2016

Unmitigated Construction On-Site

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

Off-Road	3.4100e-003	0.0285	0.0185	3.0000e-005		1.9700e-003	1.9700e-003		1.8500e-003	1.8500e-003		2.4215	2.4215	6.0000e-004	0.0000	2.4342
Total	3.4100e-003	0.0285	0.0185	3.0000e-005		1.9700e-003	1.9700e-003		1.8500e-003	1.8500e-003		2.4215	2.4215	6.0000e-004	0.0000	2.4342

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.1000e-004	2.4100e-003	3.5500e-003	1.0000e-005	1.5000e-004	4.0000e-005	1.9000e-004	4.0000e-005	3.0000e-005	8.0000e-005		0.5190	0.5190	0.0000	0.0000	0.5191
Worker	1.7000e-004	2.5000e-004	2.4500e-003	0.0000	4.2000e-004	0.0000	4.2000e-004	1.1000e-004	0.0000	1.1000e-004		0.3787	0.3787	2.0000e-005	0.0000	0.3791
Total	4.8000e-004	2.6600e-003	6.0000e-003	1.0000e-005	5.7000e-004	4.0000e-005	6.1000e-004	1.5000e-004	3.0000e-005	1.9000e-004		0.8977	0.8977	2.0000e-005	0.0000	0.8982

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	3.4100e-003	0.0285	0.0185	3.0000e-005		1.9700e-003	1.9700e-003		1.8500e-003	1.8500e-003		2.4215	2.4215	6.0000e-004	0.0000	2.4342
Total	3.4100e-003	0.0285	0.0185	3.0000e-005		1.9700e-003	1.9700e-003		1.8500e-003	1.8500e-003		2.4215	2.4215	6.0000e-004	0.0000	2.4342

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.1000e-004	2.4100e-003	3.5500e-003	1.0000e-005	1.5000e-004	4.0000e-005	1.9000e-004	4.0000e-005	3.0000e-005	8.0000e-005		0.5190	0.5190	0.0000	0.0000	0.5191
Worker	1.7000e-004	2.5000e-004	2.4500e-003	0.0000	4.2000e-004	0.0000	4.2000e-004	1.1000e-004	0.0000	1.1000e-004		0.3787	0.3787	2.0000e-005	0.0000	0.3791
Total	4.8000e-004	2.6600e-003	6.0000e-003	1.0000e-005	5.7000e-004	4.0000e-005	6.1000e-004	1.5000e-004	3.0000e-005	1.9000e-004		0.8977	0.8977	2.0000e-005	0.0000	0.8982

3.6 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0162	0.1651	0.1131	1.7000e-004		9.9600e-003	9.9600e-003		9.1800e-003	9.1800e-003		15.5310	15.5310	4.5600e-003	0.0000	15.6268
Paving	0.0000					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0162	0.1651	0.1131	1.7000e-004		9.9600e-003	9.9600e-003		9.1800e-003	9.1800e-003		15.5310	15.5310	4.5600e-003	0.0000	15.6268

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8000e-004	9.9000e-004	9.5800e-003	2.0000e-005	1.6300e-003	1.0000e-005	1.6500e-003	4.3000e-004	1.0000e-005	4.5000e-004		1.4818	1.4818	8.0000e-005	0.0000	1.4835
Total	6.8000e-004	9.9000e-004	9.5800e-003	2.0000e-005	1.6300e-003	1.0000e-005	1.6500e-003	4.3000e-004	1.0000e-005	4.5000e-004		1.4818	1.4818	8.0000e-005	0.0000	1.4835

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	0.0162	0.1651	0.1131	1.7000e-004		9.9600e-003	9.9600e-003		9.1800e-003	9.1800e-003		15.5310	15.5310	4.5600e-003	0.0000	15.6268
Paving	0.0000					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0162	0.1651	0.1131	1.7000e-004		9.9600e-003	9.9600e-003		9.1800e-003	9.1800e-003		15.5310	15.5310	4.5600e-003	0.0000	15.6268

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8000e-004	9.9000e-004	9.5800e-003	2.0000e-005	1.6300e-003	1.0000e-005	1.6500e-003	4.3000e-004	1.0000e-005	4.5000e-004		1.4818	1.4818	8.0000e-005	0.0000	1.4835

Total	6.8000e-004	9.9000e-004	9.5800e-003	2.0000e-005	1.6300e-003	1.0000e-005	1.6500e-003	4.3000e-004	1.0000e-005	4.5000e-004		1.4818	1.4818	8.0000e-005	0.0000	1.4835
-------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	--	--------	--------	-------------	--------	--------

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.6735					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3200e-003	0.0214	0.0170	3.0000e-005		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003		2.2979	2.2979	2.7000e-004	0.0000	2.3036
Total	1.6768	0.0214	0.0170	3.0000e-005		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003		2.2979	2.2979	2.7000e-004	0.0000	2.3036

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	4.5000e-004	4.3100e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.4000e-004	2.0000e-004	1.0000e-005	2.0000e-004		0.6668	0.6668	4.0000e-005	0.0000	0.6676
Total	3.1000e-004	4.5000e-004	4.3100e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.4000e-004	2.0000e-004	1.0000e-005	2.0000e-004		0.6668	0.6668	4.0000e-005	0.0000	0.6676

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.6735					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3200e-003	0.0214	0.0170	3.0000e-005		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003		2.2979	2.2979	2.7000e-004	0.0000	2.3036
Total	1.6768	0.0214	0.0170	3.0000e-005		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003		2.2979	2.2979	2.7000e-004	0.0000	2.3036

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	4.5000e-004	4.3100e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.4000e-004	2.0000e-004	1.0000e-005	2.0000e-004		0.6668	0.6668	4.0000e-005	0.0000	0.6676
Total	3.1000e-004	4.5000e-004	4.3100e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.4000e-004	2.0000e-004	1.0000e-005	2.0000e-004		0.6668	0.6668	4.0000e-005	0.0000	0.6676

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	0.2894	0.5877	2.9028	9.1100e-003	0.6361	0.0115	0.6476	0.1707	0.0106	0.1813		610.7364	610.7364	0.0196	0.0000	611.1480
Unmitigated	0.2894	0.5877	2.9028	9.1100e-003	0.6361	0.0115	0.6476	0.1707	0.0106	0.1813		610.7364	610.7364	0.0196	0.0000	611.1480

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hospital	678.77	678.77	678.77	1,709,449	1,709,449
Total	678.77	678.77	678.77	1,709,449	1,709,449

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hospital	9.50	7.30	7.30	64.90	16.10	19.00	73	25	2

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.546360	0.063107	0.173950	0.120854	0.033649	0.004805	0.015980	0.026900	0.002132	0.003198	0.006795	0.000619	0.001651

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000		297.3894	297.3894	0.0297	6.1500e-003	299.9213
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000		318.7807	318.7807	0.0319	6.6000e-003	321.4948
NaturalGas Mitigated	0.0721	0.6555	0.5506	3.9300e-003		0.0498	0.0498		0.0498	0.0498		713.5721	713.5721	0.0137	0.0131	717.9148
NaturalGas Unmitigated	0.0788	0.7159	0.6013	4.3000e-003		0.0544	0.0544		0.0544	0.0544		779.3279	779.3279	0.0149	0.0143	784.0708

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	tons/yr										MT/yr					
Hospital	1.46041e+007	0.0788	0.7159	0.6013	4.3000e-003		0.0544	0.0544		0.0544	0.0544		779.3279	779.3279	0.0149	0.0143	784.0708
Total		0.0788	0.7159	0.6013	4.3000e-003		0.0544	0.0544		0.0544	0.0544		779.3279	779.3279	0.0149	0.0143	784.0708

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					

Hospital	1.33718e+007	0.0721	0.6555	0.5506	3.9300e-003		0.0498	0.0498		0.0498	0.0498		713.5721	713.5721	0.0137	0.0131	717.9148
Total		0.0721	0.6555	0.5506	3.9300e-003		0.0498	0.0498		0.0498	0.0498		713.5721	713.5721	0.0137	0.0131	717.9148

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hospital	2.42342e+006	318.7807	0.0319	6.6000e-003	321.4948
Total		318.7807	0.0319	6.6000e-003	321.4948

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hospital	2.2608e+006	297.3894	0.0297	6.1500e-003	299.9213
Total		297.3894	0.0297	6.1500e-003	299.9213

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	0.6395	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5800e-003	2.5800e-003	1.0000e-005	0.0000	2.7200e-003
Unmitigated	0.6395	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5800e-003	2.5800e-003	1.0000e-005	0.0000	2.7200e-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	0.0753					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5640					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5800e-003	2.5800e-003	1.0000e-005	0.0000	2.7200e-003
Total	0.6395	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5800e-003	2.5800e-003	1.0000e-005	0.0000	2.7200e-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	0.0753					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5640					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5800e-003	2.5800e-003	1.0000e-005	0.0000	2.7200e-003
Total	0.6395	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5800e-003	2.5800e-003	1.0000e-005	0.0000	2.7200e-003

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	20.2371	0.5918	0.0142	37.0742
Unmitigated	20.2371	0.5920	0.0142	37.0833

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hospital	18.1219 / 3.45179	20.2371	0.5920	0.0142	37.0833
Total		20.2371	0.5920	0.0142	37.0833

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hospital	18.1219 / 3.45179	20.2371	0.5918	0.0142	37.0742
Total		20.2371	0.5918	0.0142	37.0742

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	310.2809	18.3371	0.0000	695.3594
Unmitigated	316.6131	18.7113	0.0000	709.5504

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hospital	1559.74	316.6131	18.7113	0.0000	709.5504
Total		316.6131	18.7113	0.0000	709.5504

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hospital	1528.55	310.2809	18.3371	0.0000	695.3594
Total		310.2809	18.3371	0.0000	695.3594

9.0 Operational Offroad

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

10.0 Vegetation

Phase 2 Buildout -- Existing Buildings

Bay Area AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	633.26	1000sqft	14.54	633,264.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2024
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - PG&E Intensity Factor of 290.0

Land Use - Retained hospital square footage = 633,264

Vehicle Trips - Trip rate = 9.0 for a total of 5,690 trips

Energy Use - historical energy use

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290

tblProjectCharacteristics	OperationalYear	2014	2024
tblVehicleTrips	ST_TR	10.18	9.00
tblVehicleTrips	SU_TR	8.91	9.00
tblVehicleTrips	WD_TR	16.50	9.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	6.8665	79.1808	52.0857	0.0734	18.2360	3.8038	21.3257	9.9757	3.4995	12.8183		7,077.2834	7,077.2834	1.9474	0.0000	7,118.1784
2016	734.3303	40.2792	48.4334	0.0733	2.6057	2.1392	4.7449	0.7051	2.0063	2.7115		6,963.1598	6,963.1598	0.7837	0.0000	6,979.6174
Total	741.1969	119.4599	100.5191	0.1466	20.8417	5.9430	26.0706	10.6808	5.5058	15.5297		14,040.4431	14,040.4431	2.7311	0.0000	14,097.7958

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	6.8665	79.1808	52.0857	0.0734	18.2360	3.8038	21.3257	9.9757	3.4995	12.8183		7,077.2834	7,077.2834	1.9474	0.0000	7,118.1784
2016	734.3303	40.2792	48.4334	0.0733	2.6057	2.1392	4.7449	0.7051	2.0063	2.7115		6,963.1598	6,963.1598	0.7837	0.0000	6,979.6174
Total	741.1969	119.4599	100.5191	0.1466	20.8417	5.9430	26.0706	10.6808	5.5058	15.5297		14,040.4431	14,040.4431	2.7311	0.0000	14,097.7958

	ROG	NOx	CO	SO2	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

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	15.3672	5.9000e-004	0.0646	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1386	0.1386	3.6000e-004		0.1462
Energy	2.0374	18.5217	15.5582	0.1111		1.4077	1.4077		1.4077	1.4077		22,225.9845	22,225.9845	0.4260	0.4075	22,361.2482
Mobile	14.2760	28.3009	147.2349	0.4179	30.4883	0.5307	31.0190	8.1559	0.4898	8.6456		30,870.8726	30,870.8726	0.9989		30,891.8503
Total	31.6806	46.8231	162.8576	0.5290	30.4883	1.9385	32.4268	8.1559	1.8977	10.0535		53,096.9957	53,096.9957	1.4253	0.4075	53,253.2447

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	15.3672	5.9000e-004	0.0646	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1386	0.1386	3.6000e-004		0.1462
Energy	2.0374	18.5217	15.5582	0.1111		1.4077	1.4077		1.4077	1.4077		22,225.9845	22,225.9845	0.4260	0.4075	22,361.2482
Mobile	14.2760	28.3009	147.2349	0.4179	30.4883	0.5307	31.0190	8.1559	0.4898	8.6456		30,870.8726	30,870.8726	0.9989		30,891.8503
Total	31.6806	46.8231	162.8576	0.5290	30.4883	1.9385	32.4268	8.1559	1.8977	10.0535		53,096.9957	53,096.9957	1.4253	0.4075	53,253.2447

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/28/2015	5	20	
2	Site Preparation	Site Preparation	1/29/2015	2/11/2015	5	10	
3	Grading	Grading	2/12/2015	3/25/2015	5	30	
4	Building Construction	Building Construction	3/26/2015	5/18/2016	5	300	
5	Paving	Paving	5/19/2016	6/15/2016	5	20	
6	Architectural Coating	Architectural Coating	6/16/2016	7/13/2016	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 949,896; Non-Residential Outdoor: 316,632 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40

Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	203.00	104.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	41.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886
Total	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617
Total	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617

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	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886
Total	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617
Total	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617

3.3 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412		4,111.7444	4,111.7444	1.2275		4,137.5225
Total	5.2609	56.8897	42.6318	0.0391	18.0663	3.0883	21.1545	9.9307	2.8412	12.7719		4,111.7444	4,111.7444	1.2275		4,137.5225

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0823	0.1207	1.1212	1.9300e-003	0.1698	1.4500e-003	0.1712	0.0450	1.3200e-003	0.0463		167.6267	167.6267	9.8700e-003		167.8340
Total	0.0823	0.1207	1.1212	1.9300e-003	0.1698	1.4500e-003	0.1712	0.0450	1.3200e-003	0.0463		167.6267	167.6267	9.8700e-003		167.8340

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412		4,111.7444	4,111.7444	1.2275		4,137.5224
Total	5.2609	56.8897	42.6318	0.0391	18.0663	3.0883	21.1545	9.9307	2.8412	12.7719		4,111.7444	4,111.7444	1.2275		4,137.5224

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0823	0.1207	1.1212	1.9300e-003	0.1698	1.4500e-003	0.1712	0.0450	1.3200e-003	0.0463		167.6267	167.6267	9.8700e-003		167.8340
Total	0.0823	0.1207	1.1212	1.9300e-003	0.1698	1.4500e-003	0.1712	0.0450	1.3200e-003	0.0463		167.6267	167.6267	9.8700e-003		167.8340

3.4 Grading - 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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.7751	79.0467	50.8400	0.0618		3.8022	3.8022		3.4980	3.4980		6,486.2433	6,486.2433	1.9364		6,526.9080
Total	6.7751	79.0467	50.8400	0.0618	8.6733	3.8022	12.4755	3.5965	3.4980	7.0945		6,486.2433	6,486.2433	1.9364		6,526.9080

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0914	0.1341	1.2457	2.1400e-003	0.1886	1.6100e-003	0.1902	0.0500	1.4700e-003	0.0515		186.2519	186.2519	0.0110		186.4822
Total	0.0914	0.1341	1.2457	2.1400e-003	0.1886	1.6100e-003	0.1902	0.0500	1.4700e-003	0.0515		186.2519	186.2519	0.0110		186.4822

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.7751	79.0467	50.8400	0.0618		3.8022	3.8022		3.4980	3.4980		6,486.2433	6,486.2433	1.9364		6,526.9080
Total	6.7751	79.0467	50.8400	0.0618	8.6733	3.8022	12.4755	3.5965	3.4980	7.0945		6,486.2433	6,486.2433	1.9364		6,526.9080

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0914	0.1341	1.2457	2.1400e-003	0.1886	1.6100e-003	0.1902	0.0500	1.4700e-003	0.0515		186.2519	186.2519	0.0110		186.4822
Total	0.0914	0.1341	1.2457	2.1400e-003	0.1886	1.6100e-003	0.1902	0.0500	1.4700e-003	0.0515		186.2519	186.2519	0.0110		186.4822

3.5 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.6774	12.1359	19.8492	0.0248	0.6913	0.1957	0.8870	0.1974	0.1799	0.3773		2,497.2495	2,497.2495	0.0228		2,497.7291
Worker	0.9278	1.3613	12.6443	0.0218	1.9144	0.0163	1.9307	0.5077	0.0149	0.5227		1,890.4568	1,890.4568	0.1113		1,892.7944
Total	2.6051	13.4973	32.4935	0.0465	2.6057	0.2120	2.8177	0.7051	0.1948	0.8999		4,387.7062	4,387.7062	0.1342		4,390.5235

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	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
												1				

Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
												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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.6774	12.1359	19.8492	0.0248	0.6913	0.1957	0.8870	0.1974	0.1799	0.3773		2,497.2495	2,497.2495	0.0228		2,497.7291
Worker	0.9278	1.3613	12.6443	0.0218	1.9144	0.0163	1.9307	0.5077	0.0149	0.5227		1,890.4568	1,890.4568	0.1113		1,892.7944
Total	2.6051	13.4973	32.4935	0.0465	2.6057	0.2120	2.8177	0.7051	0.1948	0.8999		4,387.7062	4,387.7062	0.1342		4,390.5235
												2				

3.5 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
												4				

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.4921	10.5530	18.6665	0.0247	0.6914	0.1564	0.8478	0.1974	0.1438	0.3412		2,468.1728	2,468.1728	0.0202		2,468.5968
Worker	0.8279	1.2198	11.2602	0.0217	1.9144	0.0154	1.9297	0.5077	0.0141	0.5219		1,825.7006	1,825.7006	0.1015		1,827.8316
Total	2.3201	11.7728	29.9267	0.0465	2.6057	0.1718	2.7775	0.7051	0.1579	0.8630		4,293.8734	4,293.8734	0.1217		4,296.4284

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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.4921	10.5530	18.6665	0.0247	0.6914	0.1564	0.8478	0.1974	0.1438	0.3412		2,468.1728	2,468.1728	0.0202		2,468.5968
Worker	0.8279	1.2198	11.2602	0.0217	1.9144	0.0154	1.9297	0.5077	0.0141	0.5219		1,825.7006	1,825.7006	0.1015		1,827.8316
Total	2.3201	11.7728	29.9267	0.0465	2.6057	0.1718	2.7775	0.7051	0.1579	0.8630		4,293.8734	4,293.8734	0.1217		4,296.4284

3.6 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0612	0.0901	0.8320	1.6100e-003	0.1415	1.1400e-003	0.1426	0.0375	1.0400e-003	0.0386		134.9040	134.9040	7.5000e-003		135.0615
Total	0.0612	0.0901	0.8320	1.6100e-003	0.1415	1.1400e-003	0.1426	0.0375	1.0400e-003	0.0386		134.9040	134.9040	7.5000e-003		135.0615

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	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0612	0.0901	0.8320	1.6100e-003	0.1415	1.1400e-003	0.1426	0.0375	1.0400e-003	0.0386		134.9040	134.9040	7.5000e-003		135.0615
Total	0.0612	0.0901	0.8320	1.6100e-003	0.1415	1.1400e-003	0.1426	0.0375	1.0400e-003	0.0386		134.9040	134.9040	7.5000e-003		135.0615

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	734.1631	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1672	0.2464	2.2742	4.3900e-003	0.3866	3.1100e-003	0.3898	0.1026	2.8500e-003	0.1054		368.7376	368.7376	0.0205		369.1680
Total	0.1672	0.2464	2.2742	4.3900e-003	0.3866	3.1100e-003	0.3898	0.1026	2.8500e-003	0.1054		368.7376	368.7376	0.0205		369.1680

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	14.2760	28.3009	147.2349	0.4179	30.4883	0.5307	31.0190	8.1559	0.4898	8.6456		30,870.8726	30,870.8726	0.9989		30,891.8503
Unmitigated	14.2760	28.3009	147.2349	0.4179	30.4883	0.5307	31.0190	8.1559	0.4898	8.6456		30,870.8726	30,870.8726	0.9989		30,891.8503

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hospital	5,699.38	5,699.38	5699.38	14,353,516	14,353,516
Total	5,699.38	5,699.38	5,699.38	14,353,516	14,353,516

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hospital	9.50	7.30	7.30	64.90	16.10	19.00	73	25	2

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.546360	0.063107	0.173950	0.120854	0.033649	0.004805	0.015980	0.026900	0.002132	0.003198	0.006795	0.000619	0.001651

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: Y

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	2.0374	18.5217	15.5582	0.1111		1.4077	1.4077		1.4077	1.4077		22,225.9845	22,225.9845	0.4260	0.4075	22,361.2482
NaturalGas Unmitigated	2.0374	18.5217	15.5582	0.1111		1.4077	1.4077		1.4077	1.4077		22,225.9845	22,225.9845	0.4260	0.4075	22,361.2482

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					
Hospital	188921	2.0374	18.5217	15.5582	0.1111		1.4077	1.4077		1.4077	1.4077		22,225.9845	22,225.9845	0.4260	0.4075	22,361.2482
Total		2.0374	18.5217	15.5582	0.1111		1.4077	1.4077		1.4077	1.4077		22,225.9845	22,225.9845	0.4260	0.4075	22,361.2482

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					
Hospital	188.921	2.0374	18.5217	15.5582	0.1111		1.4077	1.4077		1.4077	1.4077		22,225.9845	22,225.9845	0.4260	0.4075	22,361.2482
Total		2.0374	18.5217	15.5582	0.1111		1.4077	1.4077		1.4077	1.4077		22,225.9845	22,225.9845	0.4260	0.4075	22,361.2482

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
--	-----	-----	----	-----	---------------	--------------	------------	----------------	---------------	-------------	----------	-----------	-----------	-----	-----	------

Total	15.3672	5.9000e-004	0.0646	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1386	0.1386	3.6000e-004		0.1462
-------	---------	-------------	--------	--------	--	-------------	-------------	--	-------------	-------------	--	--------	--------	-------------	--	--------

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Vegetation

Phase 2 Buildout -- Existing Buildings
Bay Area AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	633.26	1000sqft	14.54	633,264.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2024
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - PG&E Intensity Factor of 290.0

Land Use - Retained hospital square footage = 633,264

Vehicle Trips - Trip rate = 9.0 for a total of 5,690 trips

Energy Use - historical energy use

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290

tblProjectCharacteristics	OperationalYear	2014	2024
tblVehicleTrips	ST_TR	10.18	9.00
tblVehicleTrips	SU_TR	8.91	9.00
tblVehicleTrips	WD_TR	16.50	9.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	6.8654	79.1551	52.1058	0.0753	18.2360	3.8038	21.3257	9.9757	3.4995	12.8183		7,254.6059	7,254.6059	1.9474	0.0000	7,295.5010
2016	734.3295	39.5710	42.0543	0.0752	2.6057	2.1376	4.7433	0.7051	2.0048	2.7100		7,135.1658	7,135.1658	0.7832	0.0000	7,151.6133
Total	741.1949	118.7261	94.1601	0.1505	20.8417	5.9413	26.0690	10.6808	5.5043	15.5282		14,389.7717	14,389.7717	2.7306	0.0000	14,447.1142

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	6.8654	79.1551	52.1058	0.0753	18.2360	3.8038	21.3257	9.9757	3.4995	12.8183		7,254.6059	7,254.6059	1.9474	0.0000	7,295.5010
2016	734.3295	39.5710	42.0543	0.0752	2.6057	2.1376	4.7433	0.7051	2.0048	2.7100		7,135.1658	7,135.1658	0.7832	0.0000	7,151.6133
Total	741.1949	118.7261	94.1601	0.1505	20.8417	5.9413	26.0690	10.6808	5.5043	15.5282		14,389.7717	14,389.7717	2.7306	0.0000	14,447.1142

	ROG	NOx	CO	SO2	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

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	15.3672	5.9000e-004	0.0646	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1386	0.1386	3.6000e-004		0.1462
Energy	2.0374	18.5217	15.5582	0.1111		1.4077	1.4077		1.4077	1.4077		22,225.9845	22,225.9845	0.4260	0.4075	22,361.2482
Mobile	13.8073	25.4028	129.0227	0.4453	30.4883	0.5288	31.0171	8.1559	0.4881	8.6439		32,769.8865	32,769.8865	0.9973		32,790.8297
Total	31.2118	43.9250	144.6455	0.5564	30.4883	1.9367	32.4250	8.1559	1.8960	10.0518		54,996.0096	54,996.0096	1.4237	0.4075	55,152.2240

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	15.3672	5.9000e-004	0.0646	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1386	0.1386	3.6000e-004		0.1462
Energy	2.0374	18.5217	15.5582	0.1111		1.4077	1.4077		1.4077	1.4077		22,225.9845	22,225.9845	0.4260	0.4075	22,361.2482
Mobile	13.8073	25.4028	129.0227	0.4453	30.4883	0.5288	31.0171	8.1559	0.4881	8.6439		32,769.8865	32,769.8865	0.9973		32,790.8297
Total	31.2118	43.9250	144.6455	0.5564	30.4883	1.9367	32.4250	8.1559	1.8960	10.0518		54,996.0096	54,996.0096	1.4237	0.4075	55,152.2240

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/28/2015	5	20	
2	Site Preparation	Site Preparation	1/29/2015	2/11/2015	5	10	
3	Grading	Grading	2/12/2015	3/25/2015	5	30	
4	Building Construction	Building Construction	3/26/2015	5/18/2016	5	300	
5	Paving	Paving	5/19/2016	6/15/2016	5	20	
6	Architectural Coating	Architectural Coating	6/16/2016	7/13/2016	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 949,896; Non-Residential Outdoor: 316,632 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40

Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	203.00	104.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	41.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858	4,127.1934	4,127.1934	1.1188		4,150.6886
Total	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858	4,127.1934	4,127.1934	1.1188		4,150.6886

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501
Total	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501

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	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886
Total	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501
Total	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501

3.3 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412		4,111.7444	4,111.7444	1.2275		4,137.5225
Total	5.2609	56.8897	42.6318	0.0391	18.0663	3.0883	21.1545	9.9307	2.8412	12.7719		4,111.7444	4,111.7444	1.2275		4,137.5225

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0812	0.0976	1.1392	2.0900e-003	0.1698	1.4500e-003	0.1712	0.0450	1.3200e-003	0.0463		181.6529	181.6529	9.8700e-003		181.8602
Total	0.0812	0.0976	1.1392	2.0900e-003	0.1698	1.4500e-003	0.1712	0.0450	1.3200e-003	0.0463		181.6529	181.6529	9.8700e-003		181.8602

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412		4,111.7444	4,111.7444	1.2275		4,137.5224
Total	5.2609	56.8897	42.6318	0.0391	18.0663	3.0883	21.1545	9.9307	2.8412	12.7719		4,111.7444	4,111.7444	1.2275		4,137.5224

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0812	0.0976	1.1392	2.0900e-003	0.1698	1.4500e-003	0.1712	0.0450	1.3200e-003	0.0463		181.6529	181.6529	9.8700e-003		181.8602
Total	0.0812	0.0976	1.1392	2.0900e-003	0.1698	1.4500e-003	0.1712	0.0450	1.3200e-003	0.0463		181.6529	181.6529	9.8700e-003		181.8602

3.4 Grading - 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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.7751	79.0467	50.8400	0.0618		3.8022	3.8022		3.4980	3.4980		6,486.2433	6,486.2433	1.9364		6,526.9080
Total	6.7751	79.0467	50.8400	0.0618	8.6733	3.8022	12.4755	3.5965	3.4980	7.0945		6,486.2433	6,486.2433	1.9364		6,526.9080

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0903	0.1084	1.2658	2.3200e-003	0.1886	1.6100e-003	0.1902	0.0500	1.4700e-003	0.0515		201.8366	201.8366	0.0110		202.0669
Total	0.0903	0.1084	1.2658	2.3200e-003	0.1886	1.6100e-003	0.1902	0.0500	1.4700e-003	0.0515		201.8366	201.8366	0.0110		202.0669

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.7751	79.0467	50.8400	0.0618		3.8022	3.8022		3.4980	3.4980		6,486.2433	6,486.2433	1.9364		6,526.9080
Total	6.7751	79.0467	50.8400	0.0618	8.6733	3.8022	12.4755	3.5965	3.4980	7.0945		6,486.2433	6,486.2433	1.9364		6,526.9080

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0903	0.1084	1.2658	2.3200e-003	0.1886	1.6100e-003	0.1902	0.0500	1.4700e-003	0.0515		201.8366	201.8366	0.0110		202.0669
Total	0.0903	0.1084	1.2658	2.3200e-003	0.1886	1.6100e-003	0.1902	0.0500	1.4700e-003	0.0515		201.8366	201.8366	0.0110		202.0669

3.5 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.3197	11.5857	13.0892	0.0249	0.6913	0.1933	0.8847	0.1974	0.1777	0.3751		2,516.3878	2,516.3878	0.0223		2,516.8567
Worker	0.9162	1.1006	12.8480	0.0236	1.9144	0.0163	1.9307	0.5077	0.0149	0.5227		2,048.6410	2,048.6410	0.1113		2,050.9786
Total	2.2360	12.6863	25.9372	0.0484	2.6057	0.2097	2.8154	0.7051	0.1926	0.8978		4,565.0288	4,565.0288	0.1336		4,567.8353

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	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
												1				

Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
												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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.3197	11.5857	13.0892	0.0249	0.6913	0.1933	0.8847	0.1974	0.1777	0.3751		2,516.3878	2,516.3878	0.0223		2,516.8567
Worker	0.9162	1.1006	12.8480	0.0236	1.9144	0.0163	1.9307	0.5077	0.0149	0.5227		2,048.6410	2,048.6410	0.1113		2,050.9786
Total	2.2360	12.6863	25.9372	0.0484	2.6057	0.2097	2.8154	0.7051	0.1926	0.8978		4,565.0288	4,565.0288	0.1336		4,567.8353

3.5 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.1758	10.0787	12.0254	0.0248	0.6914	0.1548	0.8462	0.1974	0.1423	0.3397		2,487.1919	2,487.1919	0.0197		2,487.6058
Worker	0.8236	0.9860	11.5223	0.0236	1.9144	0.0154	1.9297	0.5077	0.0141	0.5219		1,978.6875	1,978.6875	0.1015		1,980.8185
Total	1.9994	11.0647	23.5477	0.0484	2.6057	0.1702	2.7759	0.7051	0.1564	0.8615		4,465.8794	4,465.8794	0.1212		4,468.4243

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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.1758	10.0787	12.0254	0.0248	0.6914	0.1548	0.8462	0.1974	0.1423	0.3397		2,487.1919	2,487.1919	0.0197		2,487.6058
Worker	0.8236	0.9860	11.5223	0.0236	1.9144	0.0154	1.9297	0.5077	0.0141	0.5219		1,978.6875	1,978.6875	0.1015		1,980.8185
Total	1.9994	11.0647	23.5477	0.0484	2.6057	0.1702	2.7759	0.7051	0.1564	0.8615		4,465.8794	4,465.8794	0.1212		4,468.4243

3.6 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0609	0.0729	0.8514	1.7400e-003	0.1415	1.1400e-003	0.1426	0.0375	1.0400e-003	0.0386		146.2084	146.2084	7.5000e-003		146.3659
Total	0.0609	0.0729	0.8514	1.7400e-003	0.1415	1.1400e-003	0.1426	0.0375	1.0400e-003	0.0386		146.2084	146.2084	7.5000e-003		146.3659

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	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0609	0.0729	0.8514	1.7400e-003	0.1415	1.1400e-003	0.1426	0.0375	1.0400e-003	0.0386		146.2084	146.2084	7.5000e-003		146.3659
Total	0.0609	0.0729	0.8514	1.7400e-003	0.1415	1.1400e-003	0.1426	0.0375	1.0400e-003	0.0386		146.2084	146.2084	7.5000e-003		146.3659

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	734.1631	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1663	0.1991	2.3272	4.7600e-003	0.3866	3.1100e-003	0.3898	0.1026	2.8500e-003	0.1054		399.6364	399.6364	0.0205		400.0668
Total	0.1663	0.1991	2.3272	4.7600e-003	0.3866	3.1100e-003	0.3898	0.1026	2.8500e-003	0.1054		399.6364	399.6364	0.0205		400.0668

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	13.8073	25.4028	129.0227	0.4453	30.4883	0.5288	31.0171	8.1559	0.4881	8.6439		32,769.8865	32,769.8865	0.9973		32,790.8297
Unmitigated	13.8073	25.4028	129.0227	0.4453	30.4883	0.5288	31.0171	8.1559	0.4881	8.6439		32,769.8865	32,769.8865	0.9973		32,790.8297

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hospital	5,699.38	5,699.38	5699.38	14,353,516	14,353,516
Total	5,699.38	5,699.38	5,699.38	14,353,516	14,353,516

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hospital	9.50	7.30	7.30	64.90	16.10	19.00	73	25	2

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.546360	0.063107	0.173950	0.120854	0.033649	0.004805	0.015980	0.026900	0.002132	0.003198	0.006795	0.000619	0.001651

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: Y

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	2.0374	18.5217	15.5582	0.1111		1.4077	1.4077		1.4077	1.4077		22,225.9845	22,225.9845	0.4260	0.4075	22,361.2482
NaturalGas Unmitigated	2.0374	18.5217	15.5582	0.1111		1.4077	1.4077		1.4077	1.4077		22,225.9845	22,225.9845	0.4260	0.4075	22,361.2482

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					
Hospital	188921	2.0374	18.5217	15.5582	0.1111		1.4077	1.4077		1.4077	1.4077		22,225.9845	22,225.9845	0.4260	0.4075	22,361.2482
Total		2.0374	18.5217	15.5582	0.1111		1.4077	1.4077		1.4077	1.4077		22,225.9845	22,225.9845	0.4260	0.4075	22,361.2482

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					
Hospital	188.921	2.0374	18.5217	15.5582	0.1111		1.4077	1.4077		1.4077	1.4077		22,225.9845	22,225.9845	0.4260	0.4075	22,361.2482
Total		2.0374	18.5217	15.5582	0.1111		1.4077	1.4077		1.4077	1.4077		22,225.9845	22,225.9845	0.4260	0.4075	22,361.2482

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
--	-----	-----	----	-----	---------------	--------------	------------	----------------	---------------	-------------	----------	-----------	-----------	-----	-----	------

Total	15.3672	5.9000e-004	0.0646	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1386	0.1386	3.6000e-004		0.1462
-------	---------	-------------	--------	--------	--	-------------	-------------	--	-------------	-------------	--	--------	--------	-------------	--	--------

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Vegetation

Phase 2 Buildout -- Existing Buildings

Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	633.26	1000sqft	14.54	633,264.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2024
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - PG&E Intensity Factor of 290.0

Land Use - Retained hospital square footage = 633,264

Vehicle Trips - Trip rate = 9.0 for a total of 5,690 trips

Energy Use - historical energy use

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290

tblProjectCharacteristics	OperationalYear	2014	2024
tblVehicleTrips	ST_TR	10.18	9.00
tblVehicleTrips	SU_TR	8.91	9.00
tblVehicleTrips	WD_TR	16.50	9.00

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					
2015	0.7790	6.3048	6.1257	8.9800e-003	0.4777	0.3309	0.8086	0.1734	0.3091	0.4825		796.7616	796.7616	0.1161	0.0000	799.1990
2016	7.6369	2.2329	2.4093	3.9500e-003	0.1294	0.1205	0.2498	0.0351	0.1129	0.1480		342.0917	342.0917	0.0421	0.0000	342.9753
Total	8.4159	8.5377	8.5350	0.0129	0.6070	0.4514	1.0584	0.2085	0.4219	0.6305		1,138.8533	1,138.8533	0.1581	0.0000	1,142.1742

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	0.7790	6.3048	6.1257	8.9800e-003	0.4777	0.3309	0.8086	0.1734	0.3091	0.4825		796.7611	796.7611	0.1161	0.0000	799.1985
2016	7.6369	2.2329	2.4093	3.9500e-003	0.1294	0.1205	0.2498	0.0351	0.1129	0.1480		342.0916	342.0916	0.0421	0.0000	342.9751
Total	8.4159	8.5377	8.5349	0.0129	0.6070	0.4514	1.0584	0.2085	0.4219	0.6305		1,138.8527	1,138.8527	0.1581	0.0000	1,142.1736

Waste						0.0000	0.0000		0.0000	0.0000		0.0000	1,360.5319	80.4051	0.0000	3,049.0396
Water						0.0000	0.0000		0.0000	0.0000		63.5271	88.7367	2.5951	0.0624	162.5647
Total	5.6058	8.3151	27.2185	0.0968	5.3409	0.3532	5.6941	1.4333	0.3458	1.7791		10,344.9815	11,730.7229	83.3828	0.1603	13,531.4557

	ROG	NOx	CO	SO2	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	0.24	1.93	0.06	0.46

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/28/2015	5	20	
2	Site Preparation	Site Preparation	1/29/2015	2/11/2015	5	10	
3	Grading	Grading	2/12/2015	3/25/2015	5	30	
4	Building Construction	Building Construction	3/26/2015	5/18/2016	5	300	
5	Paving	Paving	5/19/2016	6/15/2016	5	20	
6	Architectural Coating	Architectural Coating	6/16/2016	7/13/2016	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 949,896; Non-Residential Outdoor: 316,632 (Architectural Coating

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40

Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	203.00	104.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	41.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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	0.0451	0.4836	0.3607	4.0000e-004		0.0245	0.0245		0.0229	0.0229		37.4413	37.4413	0.0102	0.0000	37.6544
Total	0.0451	0.4836	0.3607	4.0000e-004		0.0245	0.0245		0.0229	0.0229		37.4413	37.4413	0.0102	0.0000	37.6544

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-004	9.2000e-004	8.9400e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2786	1.2786	7.0000e-005	0.0000	1.2801
Total	6.4000e-004	9.2000e-004	8.9400e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2786	1.2786	7.0000e-005	0.0000	1.2801

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
--	-----	-----	----	-----	---------------	--------------	------------	----------------	---------------	-------------	----------	-----------	-----------	-----	-----	------

Total	0.0263	0.2845	0.2132	2.0000e-004	0.0903	0.0154	0.1058	0.0497	0.0142	0.0639		18.6506	18.6506	5.5700e-003	0.0000	18.7675
-------	--------	--------	--------	-------------	--------	--------	--------	--------	--------	--------	--	---------	---------	-------------	--------	---------

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	5.5000e-004	5.3600e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.2000e-004	2.2000e-004	1.0000e-005	2.2000e-004		0.7671	0.7671	4.0000e-005	0.0000	0.7681
Total	3.8000e-004	5.5000e-004	5.3600e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.2000e-004	2.2000e-004	1.0000e-005	2.2000e-004		0.7671	0.7671	4.0000e-005	0.0000	0.7681

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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0263	0.2845	0.2132	2.0000e-004		0.0154	0.0154		0.0142	0.0142		18.6505	18.6505	5.5700e-003	0.0000	18.7675
Total	0.0263	0.2845	0.2132	2.0000e-004	0.0903	0.0154	0.1058	0.0497	0.0142	0.0639		18.6505	18.6505	5.5700e-003	0.0000	18.7675

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	5.5000e-004	5.3600e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.2000e-004	2.2000e-004	1.0000e-005	2.2000e-004		0.7671	0.7671	4.0000e-005	0.0000	0.7681
Total	3.8000e-004	5.5000e-004	5.3600e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.2000e-004	2.2000e-004	1.0000e-005	2.2000e-004		0.7671	0.7671	4.0000e-005	0.0000	0.7681

3.4 Grading - 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					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1016	1.1857	0.7626	9.3000e-004		0.0570	0.0570		0.0525	0.0525		88.2633	88.2633	0.0264	0.0000	88.8167
Total	0.1016	1.1857	0.7626	9.3000e-004	0.1301	0.0570	0.1871	0.0540	0.0525	0.1064		88.2633	88.2633	0.0264	0.0000	88.8167

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2700e-003	1.8400e-003	0.0179	3.0000e-005	2.7200e-003	2.0000e-005	2.7500e-003	7.2000e-004	2.0000e-005	7.5000e-004		2.5571	2.5571	1.5000e-004	0.0000	2.5603
Total	1.2700e-003	1.8400e-003	0.0179	3.0000e-005	2.7200e-003	2.0000e-005	2.7500e-003	7.2000e-004	2.0000e-005	7.5000e-004		2.5571	2.5571	1.5000e-004	0.0000	2.5603

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					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1016	1.1857	0.7626	9.3000e-004		0.0570	0.0570		0.0525	0.0525		88.2632	88.2632	0.0264	0.0000	88.8166
Total	0.1016	1.1857	0.7626	9.3000e-004	0.1301	0.0570	0.1871	0.0540	0.0525	0.1064		88.2632	88.2632	0.0264	0.0000	88.8166

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2700e-003	1.8400e-003	0.0179	3.0000e-005	2.7200e-003	2.0000e-005	2.7500e-003	7.2000e-004	2.0000e-005	7.5000e-004		2.5571	2.5571	1.5000e-004	0.0000	2.5603
Total	1.2700e-003	1.8400e-003	0.0179	3.0000e-005	2.7200e-003	2.0000e-005	2.7500e-003	7.2000e-004	2.0000e-005	7.5000e-004		2.5571	2.5571	1.5000e-004	0.0000	2.5603

3.5 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3677	3.0180	1.8838	2.7000e-003		0.2127	0.2127		0.2000	0.2000		245.2143	245.2143	0.0615	0.0000	246.5063
Total	0.3677	3.0180	1.8838	2.7000e-003		0.2127	0.2127		0.2000	0.2000		245.2143	245.2143	0.0615	0.0000	246.5063

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1494	1.2046	1.6572	2.5000e-003	0.0673	0.0195	0.0868	0.0193	0.0180	0.0373		228.6914	228.6914	2.0600e-003	0.0000	228.7346
Worker	0.0865	0.1252	1.2159	2.2000e-003	0.1851	1.6400e-003	0.1867	0.0492	1.5000e-003	0.0507		173.8979	173.8979	0.0102	0.0000	174.1110
Total	0.2359	1.3297	2.8732	4.7000e-003	0.2523	0.0212	0.2735	0.0685	0.0195	0.0880		402.5893	402.5893	0.0122	0.0000	402.8456

Mitigated Construction On-Site

Total	0.1686	1.4111	0.9161	1.3300e-003		0.0974	0.0974		0.0915	0.0915		119.8660	119.8660	0.0297	0.0000	120.4903
-------	--------	--------	--------	-------------	--	--------	--------	--	--------	--------	--	----------	----------	--------	--------	----------

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0655	0.5160	0.7615	1.2300e-003	0.0331	7.7000e-003	0.0408	9.5000e-003	7.0700e-003	0.0166		111.3303	111.3303	8.9000e-004	0.0000	111.3490
Worker	0.0381	0.0552	0.5349	1.0900e-003	0.0912	7.6000e-004	0.0919	0.0243	7.0000e-004	0.0250		82.7185	82.7185	4.5600e-003	0.0000	82.8142
Total	0.1036	0.5712	1.2964	2.3200e-003	0.1243	8.4600e-003	0.1327	0.0338	7.7700e-003	0.0415		194.0488	194.0488	5.4500e-003	0.0000	194.1632

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	0.1686	1.4111	0.9161	1.3300e-003		0.0974	0.0974		0.0915	0.0915		119.8659	119.8659	0.0297	0.0000	120.4902
Total	0.1686	1.4111	0.9161	1.3300e-003		0.0974	0.0974		0.0915	0.0915		119.8659	119.8659	0.0297	0.0000	120.4902

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0655	0.5160	0.7615	1.2300e-003	0.0331	7.7000e-003	0.0408	9.5000e-003	7.0700e-003	0.0166		111.3303	111.3303	8.9000e-004	0.0000	111.3490
Worker	0.0381	0.0552	0.5349	1.0900e-003	0.0912	7.6000e-004	0.0919	0.0243	7.0000e-004	0.0250		82.7185	82.7185	4.5600e-003	0.0000	82.8142
Total	0.1036	0.5712	1.2964	2.3200e-003	0.1243	8.4600e-003	0.1327	0.0338	7.7700e-003	0.0415		194.0488	194.0488	5.4500e-003	0.0000	194.1632

3.6 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0209	0.2239	0.1482	2.2000e-004		0.0126	0.0126		0.0116	0.0116		21.0138	21.0138	6.3400e-003	0.0000	21.1469
Paving	0.0000					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0209	0.2239	0.1482	2.2000e-004		0.0126	0.0126		0.0116	0.0116		21.0138	21.0138	6.3400e-003	0.0000	21.1469

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	8.2000e-004	7.9800e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2348	1.2348	7.0000e-005	0.0000	1.2362
Total	5.7000e-004	8.2000e-004	7.9800e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2348	1.2348	7.0000e-005	0.0000	1.2362

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	0.0209	0.2239	0.1482	2.2000e-004		0.0126	0.0126		0.0116	0.0116		21.0138	21.0138	6.3400e-003	0.0000	21.1469
Paving	0.0000					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0209	0.2239	0.1482	2.2000e-004		0.0126	0.0126		0.0116	0.0116		21.0138	21.0138	6.3400e-003	0.0000	21.1469

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	8.2000e-004	7.9800e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2348	1.2348	7.0000e-005	0.0000	1.2362
Total	5.7000e-004	8.2000e-004	7.9800e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2348	1.2348	7.0000e-005	0.0000	1.2362

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	7.3380					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6800e-003	0.0237	0.0188	3.0000e-005		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		2.5533	2.5533	3.0000e-004	0.0000	2.5596
Total	7.3416	0.0237	0.0188	3.0000e-005		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		2.5533	2.5533	3.0000e-004	0.0000	2.5596

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5500e-003	2.2500e-003	0.0218	4.0000e-005	3.7200e-003	3.0000e-005	3.7500e-003	9.9000e-004	3.0000e-005	1.0200e-003		3.3751	3.3751	1.9000e-004	0.0000	3.3790
Total	1.5500e-003	2.2500e-003	0.0218	4.0000e-005	3.7200e-003	3.0000e-005	3.7500e-003	9.9000e-004	3.0000e-005	1.0200e-003		3.3751	3.3751	1.9000e-004	0.0000	3.3790

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	7.3380					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6800e-003	0.0237	0.0188	3.0000e-005		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		2.5533	2.5533	3.0000e-004	0.0000	2.5596
Total	7.3416	0.0237	0.0188	3.0000e-005		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		2.5533	2.5533	3.0000e-004	0.0000	2.5596

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5500e-003	2.2500e-003	0.0218	4.0000e-005	3.7200e-003	3.0000e-005	3.7500e-003	9.9000e-004	3.0000e-005	1.0200e-003		3.3751	3.3751	1.9000e-004	0.0000	3.3790
Total	1.5500e-003	2.2500e-003	0.0218	4.0000e-005	3.7200e-003	3.0000e-005	3.7500e-003	9.9000e-004	3.0000e-005	1.0200e-003		3.3751	3.3751	1.9000e-004	0.0000	3.3790

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	2.4301	4.9349	24.3733	0.0765	5.3409	0.0963	5.4372	1.4333	0.0889	1.5222	5,128.0931	5,128.0931	0.1646	0.0000	5,131.5492	
Unmitigated	2.4301	4.9349	24.3733	0.0765	5.3409	0.0963	5.4372	1.4333	0.0889	1.5222	5,128.0931	5,128.0931	0.1646	0.0000	5,131.5492	

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hospital	5,699.38	5,699.38	5699.38	14,353,516	14,353,516
Total	5,699.38	5,699.38	5,699.38	14,353,516	14,353,516

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
Hospital	9.50	7.30	7.30	64.90	16.10	19.00	73	25	2

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.546360	0.063107	0.173950	0.120854	0.033649	0.004805	0.015980	0.026900	0.002132	0.003198	0.006795	0.000619	0.001651

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: Y

5.1 Mitigation Measures Energy

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

Electricity Mitigated						0.0000	0.0000		0.0000	0.0000		1,473.5890	1,473.5890	0.1474	0.0305	1,486.1348
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000		1,473.5890	1,473.5890	0.1474	0.0305	1,486.1348
NaturalGas Mitigated	0.3718	3.3802	2.8394	0.0203		0.2569	0.2569		0.2569	0.2569		3,679.7610	3,679.7610	0.0705	0.0675	3,702.1554
NaturalGas Unmitigated	0.3718	3.3802	2.8394	0.0203		0.2569	0.2569		0.2569	0.2569		3,679.7610	3,679.7610	0.0705	0.0675	3,702.1554

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	tons/yr										MT/yr					
Hospital	6.89561e+007	0.3718	3.3802	2.8394	0.0203		0.2569	0.2569		0.2569	0.2569		3,679.7610	3,679.7610	0.0705	0.0675	3,702.1554
Total		0.3718	3.3802	2.8394	0.0203		0.2569	0.2569		0.2569	0.2569		3,679.7610	3,679.7610	0.0705	0.0675	3,702.1554

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					
Hospital	6.89561e+007	0.3718	3.3802	2.8394	0.0203		0.2569	0.2569		0.2569	0.2569		3,679.7610	3,679.7610	0.0705	0.0675	3,702.1554
Total		0.3718	3.3802	2.8394	0.0203		0.2569	0.2569		0.2569	0.2569		3,679.7610	3,679.7610	0.0705	0.0675	3,702.1554

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hospital	1.12024e+007	1,473.5890	0.1474	0.0305	1,486.1348
Total		1,473.5890	0.1474	0.0305	1,486.1348

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hospital	1.12024e+007	1,473.5890	0.1474	0.0305	1,486.1348
Total		1,473.5890	0.1474	0.0305	1,486.1348

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	2.8040	5.0000e-005	5.8100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0113	0.0113	3.0000e-005	0.0000	0.0119
Unmitigated	2.8040	5.0000e-005	5.8100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0113	0.0113	3.0000e-005	0.0000	0.0119

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	0.3302					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.4732					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.4000e-004	5.0000e-005	5.8100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0113	0.0113	3.0000e-005	0.0000	0.0119
Total	2.8040	5.0000e-005	5.8100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0113	0.0113	3.0000e-005	0.0000	0.0119

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	0.3302					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.4732					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Landscaping	5.4000e-004	5.0000e-005	5.8100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0113	0.0113	3.0000e-005	0.0000	0.0119
Total	2.8040	5.0000e-005	5.8100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0113	0.0113	3.0000e-005	0.0000	0.0119

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	88.7367	2.5951	0.0624	162.5647
Unmitigated	88.7367	2.5956	0.0625	162.6049

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hospital	79.4618 / 15.1356	88.7367	2.5956	0.0625	162.6049
Total		88.7367	2.5956	0.0625	162.6049

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hospital	79.4618 / 15.1356	88.7367	2.5951	0.0624	162.5647
Total		88.7367	2.5951	0.0624	162.5647

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1,360.5319	80.4051	0.0000	3,049.0396
Unmitigated	1,388.2978	82.0461	0.0000	3,111.2649

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hospital	6839.21	1,388.2978	82.0461	0.0000	3,111.2649
Total		1,388.2978	82.0461	0.0000	3,111.2649

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hospital	6702.43	1,360.5319	80.4051	0.0000	3,049.0396
Total		1,360.5319	80.4051	0.0000	3,049.0396

9.0 Operational Offroad

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

10.0 Vegetation

CHRCO Phase 1 Project

Bay Area AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	83.12	1000sqft	1.91	83,122.00	0
Unenclosed Parking Structure	7.00	1000sqft	0.16	7,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor=290

Land Use - Medical office of 83,122 square feet includes CUP

Vehicle Trips - Trip rate of 2.80 = a total of 240 net new trips (see TIA)

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00

2016	209.2507	2.4083	2.2167	3.6100e-003	0.0566	0.1971	0.2537	0.0150	0.1970	0.2120		335.4096	335.4096	0.0362	0.0000	336.1694
Total	418.5424	34.9318	25.0831	0.0353	6.7032	2.0632	8.6535	3.4075	1.9449	5.2175		3,339.0474	3,339.0474	0.7894	0.0000	3,355.6242

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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

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	2.1870	9.0000e-005	9.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0197	0.0197	5.0000e-005		0.0208
Energy	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.6085	543.6085	0.0104	9.9700e-003	546.9168
Mobile	0.6471	1.2765	6.3290	0.0134	0.9674	0.0179	0.9853	0.2588	0.0165	0.2753		1,029.1190	1,029.1190	0.0393		1,029.9434
Total	2.8839	1.7296	6.7188	0.0161	0.9674	0.0524	1.0198	0.2588	0.0510	0.3098		1,572.7472	1,572.7472	0.0497	9.9700e-003	1,576.8810

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	2.1870	9.0000e-005	9.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0197	0.0197	5.0000e-005		0.0208
Energy	0.0404	0.3669	0.3082	2.2000e-003		0.0279	0.0279		0.0279	0.0279		440.2988	440.2988	8.4400e-003	8.0700e-003	442.9784

Mobile	0.6471	1.2765	6.3290	0.0134	0.9674	0.0179	0.9853	0.2588	0.0165	0.2753		1,029.1190	1,029.1190	0.0393		1,029.9434
Total	2.8745	1.6435	6.6464	0.0156	0.9674	0.0459	1.0132	0.2588	0.0445	0.3032		1,469.4374	1,469.4374	0.0478	8.0700e-003	1,472.9426

	ROG	NOx	CO	SO2	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	0.33	4.98	1.08	3.23	0.00	12.48	0.64	0.00	12.82	2.11	0.00	6.57	6.57	3.98	19.06	6.59

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/28/2015	5	20	
2	Site Preparation	Site Preparation	1/29/2015	2/2/2015	5	3	
3	Grading	Grading	2/3/2015	2/10/2015	5	6	
4	Building Construction	Building Construction	2/11/2015	12/15/2015	5	220	
5	Paving	Paving	12/16/2015	12/29/2015	5	10	
6	Architectural Coating	Architectural Coating	12/30/2015	1/12/2016	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 135,183; Non-Residential Outdoor: 45,061 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41

Site Preparation	Scrapers	1	8.00	361	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	30.00	15.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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	3.0666	29.6778	22.0566	0.0245		1.8651	1.8651		1.7469	1.7469		2,509.0599	2,509.0599	0.6357		2,522.4104
Total	3.0666	29.6778	22.0566	0.0245		1.8651	1.8651		1.7469	1.7469		2,509.0599	2,509.0599	0.6357		2,522.4104

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0594	0.0872	0.8097	1.3900e-003	0.1226	1.0500e-003	0.1236	0.0325	9.6000e-004	0.0335		121.0637	121.0637	7.1300e-003		121.2134
Total	0.0594	0.0872	0.8097	1.3900e-003	0.1226	1.0500e-003	0.1236	0.0325	9.6000e-004	0.0335		121.0637	121.0637	7.1300e-003		121.2134

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	3.0666	29.6778	22.0566	0.0245		1.8651	1.8651		1.7469	1.7469		2,509.0599	2,509.0599	0.6357		2,522.4104
Total	3.0666	29.6778	22.0566	0.0245		1.8651	1.8651		1.7469	1.7469		2,509.0599	2,509.0599	0.6357		2,522.4104

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0594	0.0872	0.8097	1.3900e-003	0.1226	1.0500e-003	0.1236	0.0325	9.6000e-004	0.0335		121.0637	121.0637	7.1300e-003		121.2134
Total	0.0594	0.0872	0.8097	1.3900e-003	0.1226	1.0500e-003	0.1236	0.0325	9.6000e-004	0.0335		121.0637	121.0637	7.1300e-003		121.2134

3.3 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					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	2.8203	32.4699	18.6797	0.0239		1.5973	1.5973		1.4695	1.4695		2,508.1983	2,508.1983	0.7488		2,523.9231

Total	2.8203	32.4699	18.6797	0.0239	1.5908	1.5973	3.1881	0.1718	1.4695	1.6413		2,508.1983	2,508.1983	0.7488		2,523.9231
-------	--------	---------	---------	--------	--------	--------	--------	--------	--------	--------	--	------------	------------	--------	--	------------

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0366	0.0537	0.4983	8.6000e-004	0.0754	6.4000e-004	0.0761	0.0200	5.9000e-004	0.0206		74.5008	74.5008	4.3900e-003		74.5929
Total	0.0366	0.0537	0.4983	8.6000e-004	0.0754	6.4000e-004	0.0761	0.0200	5.9000e-004	0.0206		74.5008	74.5008	4.3900e-003		74.5929

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	2.8203	32.4699	18.6797	0.0239		1.5973	1.5973		1.4695	1.4695		2,508.1983	2,508.1983	0.7488		2,523.9231
Total	2.8203	32.4699	18.6797	0.0239	1.5908	1.5973	3.1881	0.1718	1.4695	1.6413		2,508.1983	2,508.1983	0.7488		2,523.9231

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0366	0.0537	0.4983	8.6000e-004	0.0754	6.4000e-004	0.0761	0.0200	5.9000e-004	0.0206		74.5008	74.5008	4.3900e-003		74.5929
Total	0.0366	0.0537	0.4983	8.6000e-004	0.0754	6.4000e-004	0.0761	0.0200	5.9000e-004	0.0206		74.5008	74.5008	4.3900e-003		74.5929

3.4 Grading - 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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.9656	31.2611	20.2019	0.0206		1.7524	1.7524		1.6122	1.6122		2,164.1012	2,164.1012	0.6461		2,177.6687
Total	2.9656	31.2611	20.2019	0.0206	6.5523	1.7524	8.3048	3.3675	1.6122	4.9797		2,164.1012	2,164.1012	0.6461		2,177.6687

Unmitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0457	0.0671	0.6229	1.0700e-003	0.0943	8.0000e-004	0.0951	0.0250	7.4000e-004	0.0258		93.1260	93.1260	5.4800e-003		93.2411
Total	0.0457	0.0671	0.6229	1.0700e-003	0.0943	8.0000e-004	0.0951	0.0250	7.4000e-004	0.0258		93.1260	93.1260	5.4800e-003		93.2411

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.9656	31.2611	20.2019	0.0206		1.7524	1.7524		1.6122	1.6122		2,164.1012	2,164.1012	0.6461		2,177.6687
Total	2.9656	31.2611	20.2019	0.0206	6.5523	1.7524	8.3048	3.3675	1.6122	4.9797		2,164.1012	2,164.1012	0.6461		2,177.6687

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0457	0.0671	0.6229	1.0700e-003	0.0943	8.0000e-004	0.0951	0.0250	7.4000e-004	0.0258		93.1260	93.1260	5.4800e-003		93.2411
Total	0.0457	0.0671	0.6229	1.0700e-003	0.0943	8.0000e-004	0.0951	0.0250	7.4000e-004	0.0258		93.1260	93.1260	5.4800e-003		93.2411

3.5 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.0268	25.8389	17.0465	0.0249		1.7597	1.7597		1.6870	1.6870		2,364.0797	2,364.0797	0.5662		2,375.9701
Total	4.0268	25.8389	17.0465	0.0249		1.7597	1.7597		1.6870	1.6870		2,364.0797	2,364.0797	0.5662		2,375.9701

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2419	1.7504	2.8629	3.5700e-003	0.0997	0.0282	0.1279	0.0285	0.0259	0.0544		360.1802	360.1802	3.2900e-003		360.2494
Worker	0.1371	0.2012	1.8686	3.2100e-003	0.2829	2.4100e-003	0.2853	0.0750	2.2100e-003	0.0772		279.3779	279.3779	0.0165		279.7233
Total	0.3790	1.9516	4.7315	6.7800e-003	0.3826	0.0306	0.4133	0.1035	0.0282	0.1317		639.5581	639.5581	0.0197		639.9727

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	4.0268	25.8389	17.0465	0.0249		1.7597	1.7597		1.6870	1.6870		2,364.0797	2,364.0797	0.5662		2,375.9701
Total	4.0268	25.8389	17.0465	0.0249		1.7597	1.7597		1.6870	1.6870		2,364.0797	2,364.0797	0.5662		2,375.9701

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2419	1.7504	2.8629	3.5700e-003	0.0997	0.0282	0.1279	0.0285	0.0259	0.0544		360.1802	360.1802	3.2900e-003		360.2494
Worker	0.1371	0.2012	1.8686	3.2100e-003	0.2829	2.4100e-003	0.2853	0.0750	2.2100e-003	0.0772		279.3779	279.3779	0.0165		279.7233
Total	0.3790	1.9516	4.7315	6.7800e-003	0.3826	0.0306	0.4133	0.1035	0.0282	0.1317		639.5581	639.5581	0.0197		639.9727

3.6 Paving - 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	1.9443	19.7532	12.2652	0.0176		1.2418	1.2418		1.1437	1.1437		1,823.2763	1,823.2763	0.5345		1,834.5006
												3				

Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9443	19.7532	12.2652	0.0176		1.2418	1.2418		1.1437	1.1437		1,823.2763	1,823.2763	0.5345		1,834.5006

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617
Total	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617

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	1.9443	19.7532	12.2652	0.0176		1.2418	1.2418		1.1437	1.1437		1,823.2763	1,823.2763	0.5345		1,834.5006
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9443	19.7532	12.2652	0.0176		1.2418	1.2418		1.1437	1.1437		1,823.2763	1,823.2763	0.5345		1,834.5006

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617
Total	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617

3.7 Architectural Coating - 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					
Archit. Coating	208.8577					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367		282.2177
Total	209.2643	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367		282.2177

Unmitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0274	0.0402	0.3737	6.4000e-004	0.0566	4.8000e-004	0.0571	0.0150	4.4000e-004	0.0155		55.8756	55.8756	3.2900e-003		55.9447
Total	0.0274	0.0402	0.3737	6.4000e-004	0.0566	4.8000e-004	0.0571	0.0150	4.4000e-004	0.0155		55.8756	55.8756	3.2900e-003		55.9447

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	208.8577					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367		282.2177
Total	209.2643	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367		282.2177

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0274	0.0402	0.3737	6.4000e-004	0.0566	4.8000e-004	0.0571	0.0150	4.4000e-004	0.0155		55.8756	55.8756	3.2900e-003		55.9447
Total	0.0274	0.0402	0.3737	6.4000e-004	0.0566	4.8000e-004	0.0571	0.0150	4.4000e-004	0.0155		55.8756	55.8756	3.2900e-003		55.9447

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	208.8577					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	209.2262	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0245	0.0361	0.3328	6.4000e-004	0.0566	4.5000e-004	0.0570	0.0150	4.2000e-004	0.0154		53.9616	53.9616	3.0000e-003		54.0246
Total	0.0245	0.0361	0.3328	6.4000e-004	0.0566	4.5000e-004	0.0570	0.0150	4.2000e-004	0.0154		53.9616	53.9616	3.0000e-003		54.0246

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	208.8577					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	209.2262	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0245	0.0361	0.3328	6.4000e-004	0.0566	4.5000e-004	0.0570	0.0150	4.2000e-004	0.0154		53.9616	53.9616	3.0000e-003		54.0246
Total	0.0245	0.0361	0.3328	6.4000e-004	0.0566	4.5000e-004	0.0570	0.0150	4.2000e-004	0.0154		53.9616	53.9616	3.0000e-003		54.0246

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	0.6471	1.2765	6.3290	0.0134	0.9674	0.0179	0.9853	0.2588	0.0165	0.2753	1,029.1190	1,029.1190	0.0393	1,029.9434	
Unmitigated	0.6471	1.2765	6.3290	0.0134	0.9674	0.0179	0.9853	0.2588	0.0165	0.2753	1,029.1190	1,029.1190	0.0393	1,029.9434	

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Medical Office Building	232.74	232.74	232.74	455,522	455,522
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	232.74	232.74	232.74	455,522	455,522

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Medical Office Building	9.50	7.30	7.30	29.60	51.40	19.00	60	30	10
Unenclosed Parking Structure	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.546690	0.063179	0.174273	0.121979	0.033815	0.004830	0.015501	0.025302	0.002100	0.003252	0.006757	0.000658	0.001666

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive 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	0.0404	0.3669	0.3082	2.2000e-003		0.0279	0.0279		0.0279	0.0279		440.2988	440.2988	8.4400e-003	8.0700e-003	442.9784
NaturalGas Unmitigated	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.6085	543.6085	0.0104	9.9700e-003	546.9168

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					
Unenclosed Parking Structure	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
Medical Office Building	4620.67	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.6085	543.6085	0.0104	9.9700e-003	546.9168
Total		0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.6085	543.6085	0.0104	9.9700e-003	546.9168

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					
Medical Office Building	3.74254	0.0404	0.3669	0.3082	2.2000e-003		0.0279	0.0279		0.0279	0.0279		440.2988	440.2988	8.4400e-003	8.0700e-003	442.9784
Unenclosed Parking Structure	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		0.0404	0.3669	0.3082	2.2000e-003		0.0279	0.0279		0.0279	0.0279		440.2988	440.2988	8.4400e-003	8.0700e-003	442.9784
-------	--	--------	--------	--------	-------------	--	--------	--------	--	--------	--------	--	----------	----------	-------------	-------------	----------

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	2.1870	9.0000e-005	9.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0197	0.0197	5.0000e-005		0.0208
Unmitigated	2.1870	9.0000e-005	9.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0197	0.0197	5.0000e-005		0.0208

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	0.2575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.9286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.7000e-004	9.0000e-005	9.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0197	0.0197	5.0000e-005		0.0208
Total	2.1870	9.0000e-005	9.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0197	0.0197	5.0000e-005		0.0208

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	0.2575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.9286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.7000e-004	9.0000e-005	9.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0197	0.0197	5.0000e-005		0.0208
Total	2.1870	9.0000e-005	9.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0197	0.0197	5.0000e-005		0.0208

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Vegetation

CHRCO Phase 1 Project

Bay Area AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	83.12	1000sqft	1.91	83,122.00	0
Unenclosed Parking Structure	7.00	1000sqft	0.16	7,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor=290

Land Use - Medical office of 83,122 square feet includes CUP

Vehicle Trips - Trip rate of 2.80 = a total of 240 net new trips (see TIA)

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00

tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblLandUse	LandUseSquareFeet	83,120.00	83,122.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleTrips	ST_TR	8.96	2.80
tblVehicleTrips	SU_TR	1.55	2.80
tblVehicleTrips	WD_TR	36.13	2.80

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	209.2914	32.5132	22.8794	0.0320	6.6466	1.8662	8.3999	3.3925	1.7479	5.0055		3,029.7751	3,029.7751	0.7532	0.0000	3,045.5921
2016	209.2505	2.4014	2.2245	3.6700e-003	0.0566	0.1971	0.2537	0.0150	0.1970	0.2120		339.9314	339.9314	0.0362	0.0000	340.6912
Total	418.5420	34.9146	25.1039	0.0356	6.7032	2.0632	8.6535	3.4075	1.9449	5.2175		3,369.7065	3,369.7065	0.7894	0.0000	3,386.2833

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	209.2914	32.5132	22.8794	0.0320	6.6466	1.8662	8.3999	3.3925	1.7479	5.0055		3,029.7751	3,029.7751	0.7532	0.0000	3,045.5921
												1				

2016	209.2505	2.4014	2.2245	3.6700e-003	0.0566	0.1971	0.2537	0.0150	0.1970	0.2120		339.9314	339.9314	0.0362	0.0000	340.6912
Total	418.5420	34.9146	25.1039	0.0356	6.7032	2.0632	8.6535	3.4075	1.9449	5.2175		3,369.7065	3,369.7065	0.7894	0.0000	3,386.2833

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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

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	2.1870	9.0000e-005	9.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0197	0.0197	5.0000e-005		0.0208
Energy	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.6085	543.6085	0.0104	9.9700e-003	546.9168
Mobile	0.6202	1.1509	5.3387	0.0142	0.9674	0.0178	0.9852	0.2588	0.0165	0.2752		1,093.4100	1,093.4100	0.0392		1,094.2332
Total	2.8570	1.6040	5.7285	0.0169	0.9674	0.0523	1.0197	0.2588	0.0509	0.3097		1,637.0382	1,637.0382	0.0497	9.9700e-003	1,641.1708

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	2.1870	9.0000e-005	9.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0197	0.0197	5.0000e-005		0.0208
Energy	0.0404	0.3669	0.3082	2.2000e-003		0.0279	0.0279		0.0279	0.0279		440.2988	440.2988	8.4400e-003	8.0700e-003	442.9784

Mobile	0.6202	1.1509	5.3387	0.0142	0.9674	0.0178	0.9852	0.2588	0.0165	0.2752		1,093.4100	1,093.4100	0.0392		1,094.2332
Total	2.8475	1.5179	5.6562	0.0164	0.9674	0.0458	1.0131	0.2588	0.0444	0.3032		1,533.7285	1,533.7285	0.0477	8.0700e-003	1,537.2324

	ROG	NOx	CO	SO2	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	0.33	5.37	1.26	3.07	0.00	12.50	0.64	0.00	12.85	2.11	0.00	6.31	6.31	3.99	19.06	6.33

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/28/2015	5	20	
2	Site Preparation	Site Preparation	1/29/2015	2/2/2015	5	3	
3	Grading	Grading	2/3/2015	2/10/2015	5	6	
4	Building Construction	Building Construction	2/11/2015	12/15/2015	5	220	
5	Paving	Paving	12/16/2015	12/29/2015	5	10	
6	Architectural Coating	Architectural Coating	12/30/2015	1/12/2016	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 135,183; Non-Residential Outdoor: 45,061 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41

Site Preparation	Scrapers	1	8.00	361	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	30.00	15.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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	3.0666	29.6778	22.0566	0.0245		1.8651	1.8651		1.7469	1.7469		2,509.0599	2,509.0599	0.6357		2,522.4104
Total	3.0666	29.6778	22.0566	0.0245		1.8651	1.8651		1.7469	1.7469		2,509.0599	2,509.0599	0.6357		2,522.4104

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0587	0.0705	0.8228	1.5100e-003	0.1226	1.0500e-003	0.1236	0.0325	9.6000e-004	0.0335		131.1938	131.1938	7.1300e-003		131.3435
Total	0.0587	0.0705	0.8228	1.5100e-003	0.1226	1.0500e-003	0.1236	0.0325	9.6000e-004	0.0335		131.1938	131.1938	7.1300e-003		131.3435

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	3.0666	29.6778	22.0566	0.0245		1.8651	1.8651		1.7469	1.7469		2,509.0599	2,509.0599	0.6357		2,522.4104
Total	3.0666	29.6778	22.0566	0.0245		1.8651	1.8651		1.7469	1.7469		2,509.0599	2,509.0599	0.6357		2,522.4104

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0587	0.0705	0.8228	1.5100e-003	0.1226	1.0500e-003	0.1236	0.0325	9.6000e-004	0.0335		131.1938	131.1938	7.1300e-003		131.3435
Total	0.0587	0.0705	0.8228	1.5100e-003	0.1226	1.0500e-003	0.1236	0.0325	9.6000e-004	0.0335		131.1938	131.1938	7.1300e-003		131.3435

3.3 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					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	2.8203	32.4699	18.6797	0.0239		1.5973	1.5973		1.4695	1.4695		2,508.1983	2,508.1983	0.7488		2,523.9231

Total	2.8203	32.4699	18.6797	0.0239	1.5908	1.5973	3.1881	0.1718	1.4695	1.6413		2,508.1983	2,508.1983	0.7488		2,523.9231
-------	--------	---------	---------	--------	--------	--------	--------	--------	--------	--------	--	------------	------------	--------	--	------------

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0361	0.0434	0.5063	9.3000e-004	0.0754	6.4000e-004	0.0761	0.0200	5.9000e-004	0.0206		80.7346	80.7346	4.3900e-003		80.8267
Total	0.0361	0.0434	0.5063	9.3000e-004	0.0754	6.4000e-004	0.0761	0.0200	5.9000e-004	0.0206		80.7346	80.7346	4.3900e-003		80.8267

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	2.8203	32.4699	18.6797	0.0239		1.5973	1.5973		1.4695	1.4695		2,508.1983	2,508.1983	0.7488		2,523.9231
Total	2.8203	32.4699	18.6797	0.0239	1.5908	1.5973	3.1881	0.1718	1.4695	1.6413		2,508.1983	2,508.1983	0.7488		2,523.9231

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0361	0.0434	0.5063	9.3000e-004	0.0754	6.4000e-004	0.0761	0.0200	5.9000e-004	0.0206		80.7346	80.7346	4.3900e-003		80.8267
Total	0.0361	0.0434	0.5063	9.3000e-004	0.0754	6.4000e-004	0.0761	0.0200	5.9000e-004	0.0206		80.7346	80.7346	4.3900e-003		80.8267

3.4 Grading - 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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.9656	31.2611	20.2019	0.0206		1.7524	1.7524		1.6122	1.6122		2,164.1012	2,164.1012	0.6461		2,177.6687
Total	2.9656	31.2611	20.2019	0.0206	6.5523	1.7524	8.3048	3.3675	1.6122	4.9797		2,164.1012	2,164.1012	0.6461		2,177.6687

Unmitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0451	0.0542	0.6329	1.1600e-003	0.0943	8.0000e-004	0.0951	0.0250	7.4000e-004	0.0258		100.9183	100.9183	5.4800e-003		101.0334
Total	0.0451	0.0542	0.6329	1.1600e-003	0.0943	8.0000e-004	0.0951	0.0250	7.4000e-004	0.0258		100.9183	100.9183	5.4800e-003		101.0334

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.9656	31.2611	20.2019	0.0206		1.7524	1.7524		1.6122	1.6122		2,164.1012	2,164.1012	0.6461		2,177.6687
Total	2.9656	31.2611	20.2019	0.0206	6.5523	1.7524	8.3048	3.3675	1.6122	4.9797		2,164.1012	2,164.1012	0.6461		2,177.6687

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0451	0.0542	0.6329	1.1600e-003	0.0943	8.0000e-004	0.0951	0.0250	7.4000e-004	0.0258		100.9183	100.9183	5.4800e-003		101.0334
Total	0.0451	0.0542	0.6329	1.1600e-003	0.0943	8.0000e-004	0.0951	0.0250	7.4000e-004	0.0258		100.9183	100.9183	5.4800e-003		101.0334

3.5 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.0268	25.8389	17.0465	0.0249		1.7597	1.7597		1.6870	1.6870		2,364.0797	2,364.0797	0.5662		2,375.9701
Total	4.0268	25.8389	17.0465	0.0249		1.7597	1.7597		1.6870	1.6870		2,364.0797	2,364.0797	0.5662		2,375.9701

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1903	1.6710	1.8879	3.5900e-003	0.0997	0.0279	0.1276	0.0285	0.0256	0.0541		362.9406	362.9406	3.2200e-003		363.0082
Worker	0.1354	0.1627	1.8987	3.4800e-003	0.2829	2.4100e-003	0.2853	0.0750	2.2100e-003	0.0772		302.7548	302.7548	0.0165		303.1003
Total	0.3258	1.8337	3.7866	7.0700e-003	0.3826	0.0303	0.4129	0.1035	0.0278	0.1313		665.6954	665.6954	0.0197		666.1085

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	4.0268	25.8389	17.0465	0.0249		1.7597	1.7597		1.6870	1.6870		2,364.0797	2,364.0797	0.5662		2,375.9701
Total	4.0268	25.8389	17.0465	0.0249		1.7597	1.7597		1.6870	1.6870		2,364.0797	2,364.0797	0.5662		2,375.9701

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1903	1.6710	1.8879	3.5900e-003	0.0997	0.0279	0.1276	0.0285	0.0256	0.0541		362.9406	362.9406	3.2200e-003		363.0082
Worker	0.1354	0.1627	1.8987	3.4800e-003	0.2829	2.4100e-003	0.2853	0.0750	2.2100e-003	0.0772		302.7548	302.7548	0.0165		303.1003
Total	0.3258	1.8337	3.7866	7.0700e-003	0.3826	0.0303	0.4129	0.1035	0.0278	0.1313		665.6954	665.6954	0.0197		666.1085

3.6 Paving - 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	1.9443	19.7532	12.2652	0.0176		1.2418	1.2418		1.1437	1.1437		1,823.2763	1,823.2763	0.5345		1,834.5006
												3				

Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9443	19.7532	12.2652	0.0176		1.2418	1.2418		1.1437	1.1437		1,823.2763	1,823.2763	0.5345		1,834.5006

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501
Total	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501

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	1.9443	19.7532	12.2652	0.0176		1.2418	1.2418		1.1437	1.1437		1,823.2763	1,823.2763	0.5345		1,834.5006
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9443	19.7532	12.2652	0.0176		1.2418	1.2418		1.1437	1.1437		1,823.2763	1,823.2763	0.5345		1,834.5006

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501
Total	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501

3.7 Architectural Coating - 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					
Archit. Coating	208.8577					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367		282.2177
Total	209.2643	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367		282.2177

Unmitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0271	0.0325	0.3797	7.0000e-004	0.0566	4.8000e-004	0.0571	0.0150	4.4000e-004	0.0155		60.5510	60.5510	3.2900e-003		60.6201
Total	0.0271	0.0325	0.3797	7.0000e-004	0.0566	4.8000e-004	0.0571	0.0150	4.4000e-004	0.0155		60.5510	60.5510	3.2900e-003		60.6201

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	208.8577					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367		282.2177
Total	209.2643	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367		282.2177

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0271	0.0325	0.3797	7.0000e-004	0.0566	4.8000e-004	0.0571	0.0150	4.4000e-004	0.0155		60.5510	60.5510	3.2900e-003		60.6201
Total	0.0271	0.0325	0.3797	7.0000e-004	0.0566	4.8000e-004	0.0571	0.0150	4.4000e-004	0.0155		60.5510	60.5510	3.2900e-003		60.6201

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	208.8577					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	209.2262	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0243	0.0291	0.3406	7.0000e-004	0.0566	4.5000e-004	0.0570	0.0150	4.2000e-004	0.0154		58.4834	58.4834	3.0000e-003		58.5464
Total	0.0243	0.0291	0.3406	7.0000e-004	0.0566	4.5000e-004	0.0570	0.0150	4.2000e-004	0.0154		58.4834	58.4834	3.0000e-003		58.5464

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	208.8577					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	209.2262	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0243	0.0291	0.3406	7.0000e-004	0.0566	4.5000e-004	0.0570	0.0150	4.2000e-004	0.0154		58.4834	58.4834	3.0000e-003		58.5464
Total	0.0243	0.0291	0.3406	7.0000e-004	0.0566	4.5000e-004	0.0570	0.0150	4.2000e-004	0.0154		58.4834	58.4834	3.0000e-003		58.5464

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	0.6202	1.1509	5.3387	0.0142	0.9674	0.0178	0.9852	0.2588	0.0165	0.2752		1,093.4100	1,093.4100	0.0392		1,094.2332
Unmitigated	0.6202	1.1509	5.3387	0.0142	0.9674	0.0178	0.9852	0.2588	0.0165	0.2752		1,093.4100	1,093.4100	0.0392		1,094.2332

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Medical Office Building	232.74	232.74	232.74	455,522	455,522
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	232.74	232.74	232.74	455,522	455,522

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Medical Office Building	9.50	7.30	7.30	29.60	51.40	19.00	60	30	10
Unenclosed Parking Structure	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.546690	0.063179	0.174273	0.121979	0.033815	0.004830	0.015501	0.025302	0.002100	0.003252	0.006757	0.000658	0.001666

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive 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	0.0404	0.3669	0.3082	2.2000e-003		0.0279	0.0279		0.0279	0.0279		440.2988	440.2988	8.4400e-003	8.0700e-003	442.9784
NaturalGas Unmitigated	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.6085	543.6085	0.0104	9.9700e-003	546.9168

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					
Medical Office Building	4620.67	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.6085	543.6085	0.0104	9.9700e-003	546.9168
Unenclosed Parking Structure	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		0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.6085	543.6085	0.0104	9.9700e-003	546.9168

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					
Medical Office Building	3.74254	0.0404	0.3669	0.3082	2.2000e-003		0.0279	0.0279		0.0279	0.0279		440.2988	440.2988	8.4400e-003	8.0700e-003	442.9784
Unenclosed Parking Structure	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		0.0404	0.3669	0.3082	2.2000e-003		0.0279	0.0279		0.0279	0.0279		440.2988	440.2988	8.4400e-003	8.0700e-003	442.9784
-------	--	--------	--------	--------	-------------	--	--------	--------	--	--------	--------	--	----------	----------	-------------	-------------	----------

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	2.1870	9.0000e-005	9.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0197	0.0197	5.0000e-005		0.0208
Unmitigated	2.1870	9.0000e-005	9.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0197	0.0197	5.0000e-005		0.0208

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	0.2575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.9286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.7000e-004	9.0000e-005	9.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0197	0.0197	5.0000e-005		0.0208
Total	2.1870	9.0000e-005	9.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0197	0.0197	5.0000e-005		0.0208

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	0.2575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.9286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.7000e-004	9.0000e-005	9.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0197	0.0197	5.0000e-005		0.0208
Total	2.1870	9.0000e-005	9.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0197	0.0197	5.0000e-005		0.0208

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Vegetation

CHRCO Phase 1 Project

Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	83.12	1000sqft	1.91	83,122.00	0
Unenclosed Parking Structure	7.00	1000sqft	0.16	7,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor=290

Land Use - Medical office of 83,122 square feet includes CUP

Vehicle Trips - Trip rate of 2.80 = a total of 240 net new trips (see TIA)

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00

2016	0.8370	9.6200e-003	8.8100e-003	1.0000e-005	2.2000e-004	7.9000e-004	1.0100e-003	6.0000e-005	7.9000e-004	8.5000e-004		1.2189	1.2189	1.3000e-004	0.0000	1.2216
Total	1.5814	3.6045	2.7297	3.9600e-003	0.0651	0.2305	0.2956	0.0220	0.2199	0.2420		344.1083	344.1083	0.0697	0.0000	345.5725

	ROG	NOx	CO	SO2	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

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	0.3990	1.0000e-005	8.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.6100e-003	1.6100e-003	0.0000	0.0000	1.7000e-003
Energy	9.0900e-003	0.0827	0.0695	5.0000e-004		6.2800e-003	6.2800e-003		6.2800e-003	6.2800e-003		244.1863	244.1863	0.0171	4.8400e-003	246.0468
Mobile	0.1094	0.2231	1.0344	2.4500e-003	0.1695	3.2500e-003	0.1727	0.0455	3.0000e-003	0.0485		170.9874	170.9874	6.4700e-003	0.0000	171.1233
Waste						0.0000	0.0000		0.0000	0.0000		0.0000	182.2250	10.7692	0.0000	408.3779
Water						0.0000	0.0000		0.0000	0.0000		8.3384	11.6473	0.3407	8.2000e-003	21.3431
Total	0.5175	0.3058	1.1047	2.9500e-003	0.1695	9.5300e-003	0.1790	0.0455	9.2800e-003	0.0548		423.5138	609.0477	11.1335	0.0130	846.8928

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	0.3990	1.0000e-005	8.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.6100e-003	1.6100e-003	0.0000	0.0000	1.7000e-003
Energy	7.3700e-003	0.0670	0.0563	4.0000e-004		5.0900e-003	5.0900e-003		5.0900e-003	5.0900e-003		206.7417	206.7417	0.0148	4.1100e-003	208.3249
Mobile	0.1094	0.2231	1.0344	2.4500e-003	0.1695	3.2500e-003	0.1727	0.0455	3.0000e-003	0.0485		170.9874	170.9874	6.4700e-003	0.0000	171.1233
Waste						0.0000	0.0000		0.0000	0.0000		0.0000	164.0025	9.6923	0.0000	367.5402
Water						0.0000	0.0000		0.0000	0.0000		6.9465	9.9246	0.3066	7.3700e-003	18.6460
Total	0.5158	0.2901	1.0915	2.8500e-003	0.1695	8.3400e-003	0.1778	0.0455	8.0900e-003	0.0536		384.6773	551.6578	10.0201	0.0115	765.6360

	ROG	NOx	CO	SO2	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	0.33	5.14	1.19	3.39	0.00	12.49	0.66	0.00	12.82	2.17	0.00	9.17	9.42	10.00	11.96	9.59

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/28/2015	5	20	
2	Site Preparation	Site Preparation	1/29/2015	2/2/2015	5	3	
3	Grading	Grading	2/3/2015	2/10/2015	5	6	
4	Building Construction	Building Construction	2/11/2015	12/15/2015	5	220	
5	Paving	Paving	12/16/2015	12/29/2015	5	10	
6	Architectural Coating	Architectural Coating	12/30/2015	1/12/2016	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 135,183; Non-Residential Outdoor: 45,061 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Scrapers	1	8.00	361	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	30.00	15.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Architectural Coating	1	6.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HDDT
-----------------------	---	------	------	------	-------	------	-------	--------	---------	------

3.1 Mitigation Measures Construction

3.2 Demolition - 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	0.0307	0.2968	0.2206	2.4000e-004		0.0187	0.0187		0.0175	0.0175		22.7618	22.7618	5.7700e-003	0.0000	22.8829
Total	0.0307	0.2968	0.2206	2.4000e-004		0.0187	0.0187		0.0175	0.0175		22.7618	22.7618	5.7700e-003	0.0000	22.8829

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5000e-004	8.0000e-004	7.7500e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004		1.1081	1.1081	6.0000e-005	0.0000	1.1095
Total	5.5000e-004	8.0000e-004	7.7500e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004		1.1081	1.1081	6.0000e-005	0.0000	1.1095

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	0.0307	0.2968	0.2206	2.4000e-004		0.0187	0.0187		0.0175	0.0175		22.7618	22.7618	5.7700e-003	0.0000	22.8829
Total	0.0307	0.2968	0.2206	2.4000e-004		0.0187	0.0187		0.0175	0.0175		22.7618	22.7618	5.7700e-003	0.0000	22.8829

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5000e-004	8.0000e-004	7.7500e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004		1.1081	1.1081	6.0000e-005	0.0000	1.1095
Total	5.5000e-004	8.0000e-004	7.7500e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004		1.1081	1.1081	6.0000e-005	0.0000	1.1095

3.3 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					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.2300e-003	0.0487	0.0280	4.0000e-005		2.4000e-003	2.4000e-003		2.2000e-003	2.2000e-003		3.4131	3.4131	1.0200e-003	0.0000	3.4345
Total	4.2300e-003	0.0487	0.0280	4.0000e-005	2.3900e-003	2.4000e-003	4.7900e-003	2.6000e-004	2.2000e-003	2.4600e-003		3.4131	3.4131	1.0200e-003	0.0000	3.4345

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	7.0000e-005	7.2000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005		0.1023	0.1023	1.0000e-005	0.0000	0.1024
Total	5.0000e-005	7.0000e-005	7.2000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005		0.1023	0.1023	1.0000e-005	0.0000	0.1024

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					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.2300e-003	0.0487	0.0280	4.0000e-005		2.4000e-003	2.4000e-003		2.2000e-003	2.2000e-003		3.4131	3.4131	1.0200e-003	0.0000	3.4345

Total	4.2300e-003	0.0487	0.0280	4.0000e-005	2.3900e-003	2.4000e-003	4.7900e-003	2.6000e-004	2.2000e-003	2.4600e-003		3.4131	3.4131	1.0200e-003	0.0000	3.4345
-------	-------------	--------	--------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	--	--------	--------	-------------	--------	--------

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	7.0000e-005	7.2000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005		0.1023	0.1023	1.0000e-005	0.0000	0.1024
Total	5.0000e-005	7.0000e-005	7.2000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005		0.1023	0.1023	1.0000e-005	0.0000	0.1024

3.4 Grading - 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					0.0197	0.0000	0.0197	0.0101	0.0000	0.0101		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.9000e-003	0.0938	0.0606	6.0000e-005		5.2600e-003	5.2600e-003		4.8400e-003	4.8400e-003		5.8897	5.8897	1.7600e-003	0.0000	5.9266
Total	8.9000e-003	0.0938	0.0606	6.0000e-005	0.0197	5.2600e-003	0.0249	0.0101	4.8400e-003	0.0149		5.8897	5.8897	1.7600e-003	0.0000	5.9266

Unmitigated Construction Off-Site

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	1.8000e-004	1.7900e-003	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005		0.2557	0.2557	1.0000e-005	0.0000	0.2560
Total	1.3000e-004	1.8000e-004	1.7900e-003	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005		0.2557	0.2557	1.0000e-005	0.0000	0.2560

3.5 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4430	2.8423	1.8751	2.7400e-003		0.1936	0.1936		0.1856	0.1856		235.9123	235.9123	0.0565	0.0000	237.0988
Total	0.4430	2.8423	1.8751	2.7400e-003		0.1936	0.1936		0.1856	0.1856		235.9123	235.9123	0.0565	0.0000	237.0988

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0236	0.1902	0.2616	3.9000e-004	0.0106	3.0800e-003	0.0137	3.0500e-003	2.8300e-003	5.8800e-003		36.1023	36.1023	3.2000e-004	0.0000	36.1091
Worker	0.0140	0.0202	0.1967	3.6000e-004	0.0299	2.7000e-004	0.0302	7.9600e-003	2.4000e-004	8.2100e-003		28.1285	28.1285	1.6400e-003	0.0000	28.1629
Total	0.0376	0.2104	0.4583	7.5000e-004	0.0406	3.3500e-003	0.0439	0.0110	3.0700e-003	0.0141		64.2307	64.2307	1.9600e-003	0.0000	64.2720

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	0.4430	2.8423	1.8751	2.7400e-003		0.1936	0.1936		0.1856	0.1856		235.9120	235.9120	0.0565	0.0000	237.0985
Total	0.4430	2.8423	1.8751	2.7400e-003		0.1936	0.1936		0.1856	0.1856		235.9120	235.9120	0.0565	0.0000	237.0985

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0236	0.1902	0.2616	3.9000e-004	0.0106	3.0800e-003	0.0137	3.0500e-003	2.8300e-003	5.8800e-003		36.1023	36.1023	3.2000e-004	0.0000	36.1091
Worker	0.0140	0.0202	0.1967	3.6000e-004	0.0299	2.7000e-004	0.0302	7.9600e-003	2.4000e-004	8.2100e-003		28.1285	28.1285	1.6400e-003	0.0000	28.1629
Total	0.0376	0.2104	0.4583	7.5000e-004	0.0406	3.3500e-003	0.0439	0.0110	3.0700e-003	0.0141		64.2307	64.2307	1.9600e-003	0.0000	64.2720

3.6 Paving - 2015

Unmitigated Construction On-Site

Paving	0.0000					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	9.7200e-003	0.0988	0.0613	9.0000e-005		6.2100e-003	6.2100e-003		5.7200e-003	5.7200e-003		8.2702	8.2702	2.4200e-003	0.0000	8.3211

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	4.6000e-004	4.4700e-003	1.0000e-005	6.8000e-004	1.0000e-005	6.9000e-004	1.8000e-004	1.0000e-005	1.9000e-004		0.6393	0.6393	4.0000e-005	0.0000	0.6401
Total	3.2000e-004	4.6000e-004	4.4700e-003	1.0000e-005	6.8000e-004	1.0000e-005	6.9000e-004	1.8000e-004	1.0000e-005	1.9000e-004		0.6393	0.6393	4.0000e-005	0.0000	0.6401

3.7 Architectural Coating - 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					
Archit. Coating	0.2089					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1000e-004	2.5700e-003	1.9000e-003	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.2553	0.2553	3.0000e-005	0.0000	0.2560
Total	0.2093	2.5700e-003	1.9000e-003	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.2553	0.2553	3.0000e-005	0.0000	0.2560

Unmitigated Construction Off-Site

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	4.0000e-005	3.6000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005		0.0511	0.0511	0.0000	0.0000	0.0512
Total	3.0000e-005	4.0000e-005	3.6000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005		0.0511	0.0511	0.0000	0.0000	0.0512

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8354					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4700e-003	9.4900e-003	7.5400e-003	1.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		1.0213	1.0213	1.2000e-004	0.0000	1.0238
Total	0.8369	9.4900e-003	7.5400e-003	1.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		1.0213	1.0213	1.2000e-004	0.0000	1.0238

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	1.3000e-004	1.2800e-003	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005		0.1976	0.1976	1.0000e-005	0.0000	0.1978
Total	9.0000e-005	1.3000e-004	1.2800e-003	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005		0.1976	0.1976	1.0000e-005	0.0000	0.1978

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8354					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4700e-003	9.4900e-003	7.5400e-003	1.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		1.0213	1.0213	1.2000e-004	0.0000	1.0238
Total	0.8369	9.4900e-003	7.5400e-003	1.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		1.0213	1.0213	1.2000e-004	0.0000	1.0238

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	1.3000e-004	1.2800e-003	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005		0.1976	0.1976	1.0000e-005	0.0000	0.1978
Total	9.0000e-005	1.3000e-004	1.2800e-003	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005		0.1976	0.1976	1.0000e-005	0.0000	0.1978

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	0.1094	0.2231	1.0344	2.4500e-003	0.1695	3.2500e-003	0.1727	0.0455	3.0000e-003	0.0485		170.9874	170.9874	6.4700e-003	0.0000	171.1233
Unmitigated	0.1094	0.2231	1.0344	2.4500e-003	0.1695	3.2500e-003	0.1727	0.0455	3.0000e-003	0.0485		170.9874	170.9874	6.4700e-003	0.0000	171.1233

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Medical Office Building	232.74	232.74	232.74	455,522	455,522
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	232.74	232.74	232.74	455,522	455,522

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Medical Office Building	9.50	7.30	7.30	29.60	51.40	19.00	60	30	10
Unenclosed Parking Structure	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.546690	0.063179	0.174273	0.121979	0.033815	0.004830	0.015501	0.025302	0.002100	0.003252	0.006757	0.000658	0.001666

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000		133.8453	133.8453	0.0134	2.7700e-003	134.9849
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000		154.1858	154.1858	0.0154	3.1900e-003	155.4985
NaturalGas Mitigated	7.3700e-003	0.0670	0.0563	4.0000e-004		5.0900e-003	5.0900e-003		5.0900e-003	5.0900e-003		72.8964	72.8964	1.4000e-003	1.3400e-003	73.3400
NaturalGas Unmitigated	9.0900e-003	0.0827	0.0695	5.0000e-004		6.2800e-003	6.2800e-003		6.2800e-003	6.2800e-003		90.0005	90.0005	1.7300e-003	1.6500e-003	90.5482

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	tons/yr										MT/yr					
Unenclosed Parking Structure	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
Medical Office Building	1.68655e+006	9.0900e-003	0.0827	0.0695	5.0000e-004		6.2800e-003	6.2800e-003		6.2800e-003	6.2800e-003		90.0005	90.0005	1.7300e-003	1.6500e-003	90.5482
Total		9.0900e-003	0.0827	0.0695	5.0000e-004		6.2800e-003	6.2800e-003		6.2800e-003	6.2800e-003		90.0005	90.0005	1.7300e-003	1.6500e-003	90.5482

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Medical Office Building	1.36603e+006	7.3700e-003	0.0670	0.0563	4.0000e-004		5.0900e-003	5.0900e-003		5.0900e-003	5.0900e-003		72.8964	72.8964	1.4000e-003	1.3400e-003	73.3400
Unenclosed Parking Structure	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		7.3700e-003	0.0670	0.0563	4.0000e-004		5.0900e-003	5.0900e-003		5.0900e-003	5.0900e-003		72.8964	72.8964	1.4000e-003	1.3400e-003	73.3400

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Medical Office Building	1.15373e+006	151.7642	0.0152	3.1400e-003	153.0562
Unenclosed Parking Structure	18410	2.4217	2.4000e-004	5.0000e-005	2.4423
Total		154.1858	0.0154	3.1900e-003	155.4985

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Medical Office Building	1.00278e+006	131.9080	0.0132	2.7300e-003	133.0310

Unenclosed Parking Structure	14728	1.9374	1.9000e-004	4.0000e-005	1.9538
Total		133.8453	0.0134	2.7700e-003	134.9849

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	0.3990	1.0000e-005	8.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.6100e-003	1.6100e-003	0.0000	0.0000	1.7000e-003
Unmitigated	0.3990	1.0000e-005	8.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.6100e-003	1.6100e-003	0.0000	0.0000	1.7000e-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	0.0470					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3520					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.6100e-003	1.6100e-003	0.0000	0.0000	1.7000e-003
Total	0.3990	1.0000e-005	8.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.6100e-003	1.6100e-003	0.0000	0.0000	1.7000e-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	0.0470					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3520					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.6100e-003	1.6100e-003	0.0000	0.0000	1.7000e-003
Total	0.3990	1.0000e-005	8.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.6100e-003	1.6100e-003	0.0000	0.0000	1.7000e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	9.9246	0.3066	7.3700e-003	18.6460
Unmitigated	11.6473	0.3407	8.2000e-003	21.3431

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Medical Office Building	10.4299 / 1.98666	11.6473	0.3407	8.2000e-003	21.3431
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		11.6473	0.3407	8.2000e-003	21.3431

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Medical Office Building	9.38695 / 1.78799	9.9246	0.3066	7.3700e-003	18.6460
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		9.9246	0.3066	7.3700e-003	18.6460

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	164.0025	9.6923	0.0000	367.5402
Unmitigated	182.2250	10.7692	0.0000	408.3779

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Medical Office Building	897.7	182.2250	10.7692	0.0000	408.3779
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		182.2250	10.7692	0.0000	408.3779

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Medical Office Building	807.93	164.0025	9.6923	0.0000	367.5402
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000

Total		164.0025	9.6923	0.0000	367.5402
-------	--	----------	--------	--------	----------

9.0 Operational Offroad

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

10.0 Vegetation

CHRCO Phase 1 Project

Bay Area AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	83.12	1000sqft	1.91	83,122.00	0
Unenclosed Parking Structure	7.00	1000sqft	0.16	7,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor=290

Land Use - Medical office of 83,122 square feet includes CUP

Vehicle Trips - Trip rate of 2.80 = a total of 240 net new trips (see TIA)

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00

2016	209.2507	2.4083	2.2167	3.6100e-003	0.0566	0.1971	0.2537	0.0150	0.1970	0.2120		335.4096	335.4096	0.0362	0.0000	336.1694
Total	418.5424	34.9318	25.0831	0.0353	6.7032	2.0632	8.6535	3.4075	1.9449	5.2175		3,339.0474	3,339.0474	0.7894	0.0000	3,355.6242

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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

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	2.1870	9.0000e-005	9.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0197	0.0197	5.0000e-005		0.0208
Energy	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.6085	543.6085	0.0104	9.9700e-003	546.9168
Mobile	0.6471	1.2765	6.3290	0.0134	0.9674	0.0179	0.9853	0.2588	0.0165	0.2753		1,029.1190	1,029.1190	0.0393		1,029.9434
Total	2.8839	1.7296	6.7188	0.0161	0.9674	0.0524	1.0198	0.2588	0.0510	0.3098		1,572.7472	1,572.7472	0.0497	9.9700e-003	1,576.8810

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	2.1870	9.0000e-005	9.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0197	0.0197	5.0000e-005		0.0208
Energy	0.0404	0.3669	0.3082	2.2000e-003		0.0279	0.0279		0.0279	0.0279		440.2988	440.2988	8.4400e-003	8.0700e-003	442.9784

Mobile	0.6471	1.2765	6.3290	0.0134	0.9674	0.0179	0.9853	0.2588	0.0165	0.2753		1,029.1190	1,029.1190	0.0393		1,029.9434
Total	2.8745	1.6435	6.6464	0.0156	0.9674	0.0459	1.0132	0.2588	0.0445	0.3032		1,469.4374	1,469.4374	0.0478	8.0700e-003	1,472.9426

	ROG	NOx	CO	SO2	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	0.33	4.98	1.08	3.23	0.00	12.48	0.64	0.00	12.82	2.11	0.00	6.57	6.57	3.98	19.06	6.59

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/28/2015	5	20	
2	Site Preparation	Site Preparation	1/29/2015	2/2/2015	5	3	
3	Grading	Grading	2/3/2015	2/10/2015	5	6	
4	Building Construction	Building Construction	2/11/2015	12/15/2015	5	220	
5	Paving	Paving	12/16/2015	12/29/2015	5	10	
6	Architectural Coating	Architectural Coating	12/30/2015	1/12/2016	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 135,183; Non-Residential Outdoor: 45,061 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41

Site Preparation	Scrapers	1	8.00	361	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	30.00	15.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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	3.0666	29.6778	22.0566	0.0245		1.8651	1.8651		1.7469	1.7469		2,509.0599	2,509.0599	0.6357		2,522.4104
Total	3.0666	29.6778	22.0566	0.0245		1.8651	1.8651		1.7469	1.7469		2,509.0599	2,509.0599	0.6357		2,522.4104

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0594	0.0872	0.8097	1.3900e-003	0.1226	1.0500e-003	0.1236	0.0325	9.6000e-004	0.0335		121.0637	121.0637	7.1300e-003		121.2134
Total	0.0594	0.0872	0.8097	1.3900e-003	0.1226	1.0500e-003	0.1236	0.0325	9.6000e-004	0.0335		121.0637	121.0637	7.1300e-003		121.2134

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	3.0666	29.6778	22.0566	0.0245		1.8651	1.8651		1.7469	1.7469		2,509.0599	2,509.0599	0.6357	2,522.4104
Total	3.0666	29.6778	22.0566	0.0245		1.8651	1.8651		1.7469	1.7469		2,509.0599	2,509.0599	0.6357	2,522.4104

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0594	0.0872	0.8097	1.3900e-003	0.1226	1.0500e-003	0.1236	0.0325	9.6000e-004	0.0335		121.0637	121.0637	7.1300e-003		121.2134
Total	0.0594	0.0872	0.8097	1.3900e-003	0.1226	1.0500e-003	0.1236	0.0325	9.6000e-004	0.0335		121.0637	121.0637	7.1300e-003		121.2134

3.3 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					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	2.8203	32.4699	18.6797	0.0239		1.5973	1.5973		1.4695	1.4695		2,508.1983	2,508.1983	0.7488		2,523.9231

Total	2.8203	32.4699	18.6797	0.0239	1.5908	1.5973	3.1881	0.1718	1.4695	1.6413		2,508.1983	2,508.1983	0.7488		2,523.9231
-------	--------	---------	---------	--------	--------	--------	--------	--------	--------	--------	--	------------	------------	--------	--	------------

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0366	0.0537	0.4983	8.6000e-004	0.0754	6.4000e-004	0.0761	0.0200	5.9000e-004	0.0206		74.5008	74.5008	4.3900e-003		74.5929
Total	0.0366	0.0537	0.4983	8.6000e-004	0.0754	6.4000e-004	0.0761	0.0200	5.9000e-004	0.0206		74.5008	74.5008	4.3900e-003		74.5929

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	2.8203	32.4699	18.6797	0.0239		1.5973	1.5973		1.4695	1.4695		2,508.1983	2,508.1983	0.7488		2,523.9231
Total	2.8203	32.4699	18.6797	0.0239	1.5908	1.5973	3.1881	0.1718	1.4695	1.6413		2,508.1983	2,508.1983	0.7488		2,523.9231

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0366	0.0537	0.4983	8.6000e-004	0.0754	6.4000e-004	0.0761	0.0200	5.9000e-004	0.0206		74.5008	74.5008	4.3900e-003		74.5929
Total	0.0366	0.0537	0.4983	8.6000e-004	0.0754	6.4000e-004	0.0761	0.0200	5.9000e-004	0.0206		74.5008	74.5008	4.3900e-003		74.5929

3.4 Grading - 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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.9656	31.2611	20.2019	0.0206		1.7524	1.7524		1.6122	1.6122		2,164.1012	2,164.1012	0.6461		2,177.6687
Total	2.9656	31.2611	20.2019	0.0206	6.5523	1.7524	8.3048	3.3675	1.6122	4.9797		2,164.1012	2,164.1012	0.6461		2,177.6687

Unmitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0457	0.0671	0.6229	1.0700e-003	0.0943	8.0000e-004	0.0951	0.0250	7.4000e-004	0.0258		93.1260	93.1260	5.4800e-003		93.2411
Total	0.0457	0.0671	0.6229	1.0700e-003	0.0943	8.0000e-004	0.0951	0.0250	7.4000e-004	0.0258		93.1260	93.1260	5.4800e-003		93.2411

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.9656	31.2611	20.2019	0.0206		1.7524	1.7524		1.6122	1.6122		2,164.1012	2,164.1012	0.6461		2,177.6687
Total	2.9656	31.2611	20.2019	0.0206	6.5523	1.7524	8.3048	3.3675	1.6122	4.9797		2,164.1012	2,164.1012	0.6461		2,177.6687

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0457	0.0671	0.6229	1.0700e-003	0.0943	8.0000e-004	0.0951	0.0250	7.4000e-004	0.0258		93.1260	93.1260	5.4800e-003		93.2411
Total	0.0457	0.0671	0.6229	1.0700e-003	0.0943	8.0000e-004	0.0951	0.0250	7.4000e-004	0.0258		93.1260	93.1260	5.4800e-003		93.2411

3.5 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.0268	25.8389	17.0465	0.0249		1.7597	1.7597		1.6870	1.6870		2,364.0797	2,364.0797	0.5662		2,375.9701
Total	4.0268	25.8389	17.0465	0.0249		1.7597	1.7597		1.6870	1.6870		2,364.0797	2,364.0797	0.5662		2,375.9701

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2419	1.7504	2.8629	3.5700e-003	0.0997	0.0282	0.1279	0.0285	0.0259	0.0544		360.1802	360.1802	3.2900e-003		360.2494
Worker	0.1371	0.2012	1.8686	3.2100e-003	0.2829	2.4100e-003	0.2853	0.0750	2.2100e-003	0.0772		279.3779	279.3779	0.0165		279.7233
Total	0.3790	1.9516	4.7315	6.7800e-003	0.3826	0.0306	0.4133	0.1035	0.0282	0.1317		639.5581	639.5581	0.0197		639.9727

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	4.0268	25.8389	17.0465	0.0249		1.7597	1.7597		1.6870	1.6870		2,364.0797	2,364.0797	0.5662		2,375.9701
Total	4.0268	25.8389	17.0465	0.0249		1.7597	1.7597		1.6870	1.6870		2,364.0797	2,364.0797	0.5662		2,375.9701

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2419	1.7504	2.8629	3.5700e-003	0.0997	0.0282	0.1279	0.0285	0.0259	0.0544		360.1802	360.1802	3.2900e-003		360.2494
Worker	0.1371	0.2012	1.8686	3.2100e-003	0.2829	2.4100e-003	0.2853	0.0750	2.2100e-003	0.0772		279.3779	279.3779	0.0165		279.7233
Total	0.3790	1.9516	4.7315	6.7800e-003	0.3826	0.0306	0.4133	0.1035	0.0282	0.1317		639.5581	639.5581	0.0197		639.9727

3.6 Paving - 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	1.9443	19.7532	12.2652	0.0176		1.2418	1.2418		1.1437	1.1437		1,823.2763	1,823.2763	0.5345		1,834.5006
												3				

Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9443	19.7532	12.2652	0.0176		1.2418	1.2418		1.1437	1.1437		1,823.2763	1,823.2763	0.5345		1,834.5006

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617
Total	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617

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	1.9443	19.7532	12.2652	0.0176		1.2418	1.2418		1.1437	1.1437		1,823.2763	1,823.2763	0.5345		1,834.5006
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9443	19.7532	12.2652	0.0176		1.2418	1.2418		1.1437	1.1437		1,823.2763	1,823.2763	0.5345		1,834.5006

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617
Total	0.0686	0.1006	0.9343	1.6100e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		139.6889	139.6889	8.2300e-003		139.8617

3.7 Architectural Coating - 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					
Archit. Coating	208.8577					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367		282.2177
Total	209.2643	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367		282.2177

Unmitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0274	0.0402	0.3737	6.4000e-004	0.0566	4.8000e-004	0.0571	0.0150	4.4000e-004	0.0155		55.8756	55.8756	3.2900e-003		55.9447
Total	0.0274	0.0402	0.3737	6.4000e-004	0.0566	4.8000e-004	0.0571	0.0150	4.4000e-004	0.0155		55.8756	55.8756	3.2900e-003		55.9447

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	208.8577					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367		282.2177
Total	209.2643	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367		282.2177

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0274	0.0402	0.3737	6.4000e-004	0.0566	4.8000e-004	0.0571	0.0150	4.4000e-004	0.0155		55.8756	55.8756	3.2900e-003		55.9447
Total	0.0274	0.0402	0.3737	6.4000e-004	0.0566	4.8000e-004	0.0571	0.0150	4.4000e-004	0.0155		55.8756	55.8756	3.2900e-003		55.9447

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	208.8577					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	209.2262	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0245	0.0361	0.3328	6.4000e-004	0.0566	4.5000e-004	0.0570	0.0150	4.2000e-004	0.0154		53.9616	53.9616	3.0000e-003		54.0246
Total	0.0245	0.0361	0.3328	6.4000e-004	0.0566	4.5000e-004	0.0570	0.0150	4.2000e-004	0.0154		53.9616	53.9616	3.0000e-003		54.0246

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	208.8577					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	209.2262	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0245	0.0361	0.3328	6.4000e-004	0.0566	4.5000e-004	0.0570	0.0150	4.2000e-004	0.0154		53.9616	53.9616	3.0000e-003		54.0246
Total	0.0245	0.0361	0.3328	6.4000e-004	0.0566	4.5000e-004	0.0570	0.0150	4.2000e-004	0.0154		53.9616	53.9616	3.0000e-003		54.0246

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	0.6471	1.2765	6.3290	0.0134	0.9674	0.0179	0.9853	0.2588	0.0165	0.2753	1,029.1190	1,029.1190	0.0393	1,029.9434	
Unmitigated	0.6471	1.2765	6.3290	0.0134	0.9674	0.0179	0.9853	0.2588	0.0165	0.2753	1,029.1190	1,029.1190	0.0393	1,029.9434	

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Medical Office Building	232.74	232.74	232.74	455,522	455,522
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	232.74	232.74	232.74	455,522	455,522

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Medical Office Building	9.50	7.30	7.30	29.60	51.40	19.00	60	30	10
Unenclosed Parking Structure	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.546690	0.063179	0.174273	0.121979	0.033815	0.004830	0.015501	0.025302	0.002100	0.003252	0.006757	0.000658	0.001666

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive 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	0.0404	0.3669	0.3082	2.2000e-003		0.0279	0.0279		0.0279	0.0279		440.2988	440.2988	8.4400e-003	8.0700e-003	442.9784
NaturalGas Unmitigated	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.6085	543.6085	0.0104	9.9700e-003	546.9168

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					
Unenclosed Parking Structure	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
Medical Office Building	4620.67	0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.6085	543.6085	0.0104	9.9700e-003	546.9168
Total		0.0498	0.4530	0.3805	2.7200e-003		0.0344	0.0344		0.0344	0.0344		543.6085	543.6085	0.0104	9.9700e-003	546.9168

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					
Medical Office Building	3.74254	0.0404	0.3669	0.3082	2.2000e-003		0.0279	0.0279		0.0279	0.0279		440.2988	440.2988	8.4400e-003	8.0700e-003	442.9784
Unenclosed Parking Structure	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		0.0404	0.3669	0.3082	2.2000e-003		0.0279	0.0279		0.0279	0.0279		440.2988	440.2988	8.4400e-003	8.0700e-003	442.9784
-------	--	--------	--------	--------	-------------	--	--------	--------	--	--------	--------	--	----------	----------	-------------	-------------	----------

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	2.1870	9.0000e-005	9.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0197	0.0197	5.0000e-005		0.0208
Unmitigated	2.1870	9.0000e-005	9.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0197	0.0197	5.0000e-005		0.0208

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	0.2575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.9286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.7000e-004	9.0000e-005	9.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0197	0.0197	5.0000e-005		0.0208
Total	2.1870	9.0000e-005	9.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0197	0.0197	5.0000e-005		0.0208

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	0.2575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.9286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.7000e-004	9.0000e-005	9.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0197	0.0197	5.0000e-005		0.0208
Total	2.1870	9.0000e-005	9.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0197	0.0197	5.0000e-005		0.0208

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Vegetation

Phase 1 Existing
Bay Area AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	698.30	1000sqft	16.03	698,304.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - co2 = 290

Land Use - 698304

Vehicle Trips - Trip Rate of 8.15 x 698.304 (SQ FT) = 5,690 Trips (See TIA)

Energy Use - historical energy use

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblLandUse	LandUseSquareFeet	698,300.00	698,304.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290

tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleTrips	ST_TR	10.18	8.15
tblVehicleTrips	SU_TR	8.91	8.15
tblVehicleTrips	WD_TR	16.50	8.15

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	6.8654	79.1551	52.1058	0.0800	18.2360	3.8038	21.3257	9.9757	3.4995	12.8183		7,698.4029	7,698.4029	1.9474	0.0000	7,739.2979
2016	809.7108	40.6373	44.3458	0.0799	2.8608	2.1540	5.0148	0.7741	2.0199	2.7941		7,569.2635	7,569.2635	0.7951	0.0000	7,585.9607
Total	816.5762	119.7924	96.4516	0.1599	21.0968	5.9577	26.3405	10.7498	5.5194	15.6123		15,267.6663	15,267.6663	2.7425	0.0000	15,325.2585

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	6.8654	79.1551	52.1058	0.0800	18.2360	3.8038	21.3257	9.9757	3.4995	12.8183		7,698.4029	7,698.4029	1.9474	0.0000	7,739.2979
2016	809.7108	40.6373	44.3458	0.0799	2.8608	2.1540	5.0148	0.7741	2.0199	2.7941		7,569.2635	7,569.2635	0.7951	0.0000	7,585.9607
Total	816.5762	119.7924	96.4516	0.1599	21.0968	5.9577	26.3405	10.7498	5.5194	15.6123		15,267.6663	15,267.6663	2.7425	0.0000	15,325.2585

	ROG	NOx	CO	SO2	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

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	16.9456	6.6000e-004	0.0718	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1528	0.1528	4.1000e-004		0.1614
Energy	2.2466	20.4239	17.1561	0.1225		1.5522	1.5522		1.5522	1.5522		24,508.7261	24,508.7261	0.4698	0.4493	24,657.8821
Mobile	16.2418	34.3864	156.6496	0.4434	30.4382	0.5477	30.9858	8.1422	0.5052	8.6474		34,086.6691	34,086.6691	1.1958		34,111.7809
Total	35.4340	54.8110	173.8775	0.5659	30.4382	2.1001	32.5383	8.1422	2.0577	10.1999		58,595.5479	58,595.5479	1.6660	0.4493	58,769.8244

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	16.9456	6.6000e-004	0.0718	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1528	0.1528	4.1000e-004		0.1614
Energy	2.2466	20.4239	17.1561	0.1225		1.5522	1.5522		1.5522	1.5522		24,508.7261	24,508.7261	0.4698	0.4493	24,657.8821
Mobile	16.2418	34.3864	156.6496	0.4434	30.4382	0.5477	30.9858	8.1422	0.5052	8.6474		34,086.6691	34,086.6691	1.1958		34,111.7809
Total	35.4340	54.8110	173.8775	0.5659	30.4382	2.1001	32.5383	8.1422	2.0577	10.1999		58,595.5479	58,595.5479	1.6660	0.4493	58,769.8244

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/28/2015	5	20	
2	Site Preparation	Site Preparation	1/29/2015	2/11/2015	5	10	
3	Grading	Grading	2/12/2015	3/25/2015	5	30	
4	Building Construction	Building Construction	3/26/2015	5/18/2016	5	300	
5	Paving	Paving	5/19/2016	6/15/2016	5	20	
6	Architectural Coating	Architectural Coating	6/16/2016	7/13/2016	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,047,456; Non-Residential Outdoor: 349,152 (Architectural Coating)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40

Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	223.00	114.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	45.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886
Total	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501
Total	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501

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	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886
Total	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501
Total	0.0677	0.0813	0.9494	1.7400e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1000e-003	0.0386		151.3774	151.3774	8.2300e-003		151.5501

3.3 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412		4,111.7444	4,111.7444	1.2275		4,137.5225
Total	5.2609	56.8897	42.6318	0.0391	18.0663	3.0883	21.1545	9.9307	2.8412	12.7719		4,111.7444	4,111.7444	1.2275		4,137.5225

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0812	0.0976	1.1392	2.0900e-003	0.1698	1.4500e-003	0.1712	0.0450	1.3200e-003	0.0463		181.6529	181.6529	9.8700e-003		181.8602
Total	0.0812	0.0976	1.1392	2.0900e-003	0.1698	1.4500e-003	0.1712	0.0450	1.3200e-003	0.0463		181.6529	181.6529	9.8700e-003		181.8602

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412		4,111.7444	4,111.7444	1.2275		4,137.5224
Total	5.2609	56.8897	42.6318	0.0391	18.0663	3.0883	21.1545	9.9307	2.8412	12.7719		4,111.7444	4,111.7444	1.2275		4,137.5224

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0812	0.0976	1.1392	2.0900e-003	0.1698	1.4500e-003	0.1712	0.0450	1.3200e-003	0.0463		181.6529	181.6529	9.8700e-003		181.8602
Total	0.0812	0.0976	1.1392	2.0900e-003	0.1698	1.4500e-003	0.1712	0.0450	1.3200e-003	0.0463		181.6529	181.6529	9.8700e-003		181.8602

3.4 Grading - 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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.7751	79.0467	50.8400	0.0618		3.8022	3.8022		3.4980	3.4980		6,486.2433	6,486.2433	1.9364		6,526.9080
Total	6.7751	79.0467	50.8400	0.0618	8.6733	3.8022	12.4755	3.5965	3.4980	7.0945		6,486.2433	6,486.2433	1.9364		6,526.9080

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0903	0.1084	1.2658	2.3200e-003	0.1886	1.6100e-003	0.1902	0.0500	1.4700e-003	0.0515		201.8366	201.8366	0.0110		202.0669
Total	0.0903	0.1084	1.2658	2.3200e-003	0.1886	1.6100e-003	0.1902	0.0500	1.4700e-003	0.0515		201.8366	201.8366	0.0110		202.0669

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.7751	79.0467	50.8400	0.0618		3.8022	3.8022		3.4980	3.4980		6,486.2433	6,486.2433	1.9364		6,526.9080
Total	6.7751	79.0467	50.8400	0.0618	8.6733	3.8022	12.4755	3.5965	3.4980	7.0945		6,486.2433	6,486.2433	1.9364		6,526.9080

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0903	0.1084	1.2658	2.3200e-003	0.1886	1.6100e-003	0.1902	0.0500	1.4700e-003	0.0515		201.8366	201.8366	0.0110		202.0669
Total	0.0903	0.1084	1.2658	2.3200e-003	0.1886	1.6100e-003	0.1902	0.0500	1.4700e-003	0.0515		201.8366	201.8366	0.0110		202.0669

3.5 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.4466	12.6997	14.3478	0.0273	0.7578	0.2119	0.9697	0.2164	0.1948	0.4112		2,758.3482	2,758.3482	0.0245		2,758.8621
Worker	1.0065	1.2091	14.1138	0.0259	2.1030	0.0179	2.1209	0.5578	0.0164	0.5742		2,250.4775	2,250.4775	0.1223		2,253.0455
Total	2.4531	13.9088	28.4615	0.0531	2.8608	0.2299	3.0906	0.7741	0.2112	0.9853		5,008.8257	5,008.8257	0.1468		5,011.9076

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	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
												1				

Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
												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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.4466	12.6997	14.3478	0.0273	0.7578	0.2119	0.9697	0.2164	0.1948	0.4112		2,758.3482	2,758.3482	0.0245		2,758.8621
Worker	1.0065	1.2091	14.1138	0.0259	2.1030	0.0179	2.1209	0.5578	0.0164	0.5742		2,250.4775	2,250.4775	0.1223		2,253.0455
Total	2.4531	13.9088	28.4615	0.0531	2.8608	0.2299	3.0906	0.7741	0.2112	0.9853		5,008.8257	5,008.8257	0.1468		5,011.9076
												7				

3.5 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
												4				

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.2889	11.0478	13.1817	0.0272	0.7579	0.1697	0.9275	0.2164	0.1560	0.3723		2,726.3450	2,726.3450	0.0216		2,726.7986
Worker	0.9047	1.0831	12.6575	0.0259	2.1030	0.0169	2.1199	0.5578	0.0155	0.5733		2,173.6321	2,173.6321	0.1115		2,175.9730
Total	2.1936	12.1309	25.8392	0.0531	2.8608	0.1866	3.0474	0.7741	0.1715	0.9456		4,899.9771	4,899.9771	0.1331		4,902.7716

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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.2889	11.0478	13.1817	0.0272	0.7579	0.1697	0.9275	0.2164	0.1560	0.3723		2,726.3450	2,726.3450	0.0216		2,726.7986
Worker	0.9047	1.0831	12.6575	0.0259	2.1030	0.0169	2.1199	0.5578	0.0155	0.5733		2,173.6321	2,173.6321	0.1115		2,175.9730
Total	2.1936	12.1309	25.8392	0.0531	2.8608	0.1866	3.0474	0.7741	0.1715	0.9456		4,899.9771	4,899.9771	0.1331		4,902.7716

3.6 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0609	0.0729	0.8514	1.7400e-003	0.1415	1.1400e-003	0.1426	0.0375	1.0400e-003	0.0386		146.2084	146.2084	7.5000e-003		146.3659
Total	0.0609	0.0729	0.8514	1.7400e-003	0.1415	1.1400e-003	0.1426	0.0375	1.0400e-003	0.0386		146.2084	146.2084	7.5000e-003		146.3659

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	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0609	0.0729	0.8514	1.7400e-003	0.1415	1.1400e-003	0.1426	0.0375	1.0400e-003	0.0386		146.2084	146.2084	7.5000e-003		146.3659
Total	0.0609	0.0729	0.8514	1.7400e-003	0.1415	1.1400e-003	0.1426	0.0375	1.0400e-003	0.0386		146.2084	146.2084	7.5000e-003		146.3659

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	809.5282	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1826	0.2186	2.5542	5.2200e-003	0.4244	3.4100e-003	0.4278	0.1126	3.1300e-003	0.1157		438.6253	438.6253	0.0225		439.0977
Total	0.1826	0.2186	2.5542	5.2200e-003	0.4244	3.4100e-003	0.4278	0.1126	3.1300e-003	0.1157		438.6253	438.6253	0.0225		439.0977

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	16.2418	34.3864	156.6496	0.4434	30.4382	0.5477	30.9858	8.1422	0.5052	8.6474		34,086.6691	34,086.6691	1.1958		34,111.7809
Unmitigated	16.2418	34.3864	156.6496	0.4434	30.4382	0.5477	30.9858	8.1422	0.5052	8.6474		34,086.6691	34,086.6691	1.1958		34,111.7809

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hospital	5,691.15	5,691.15	5691.15	14,332,787	14,332,787
Total	5,691.15	5,691.15	5,691.15	14,332,787	14,332,787

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hospital	9.50	7.30	7.30	64.90	16.10	19.00	73	25	2

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.546690	0.063179	0.174273	0.121979	0.033815	0.004830	0.015501	0.025302	0.002100	0.003252	0.006757	0.000658	0.001666

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: Y

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	2.2466	20.4239	17.1561	0.1225		1.5522	1.5522		1.5522	1.5522		24,508.7261	24,508.7261	0.4698	0.4493	24,657.8821
NaturalGas Unmitigated	2.2466	20.4239	17.1561	0.1225		1.5522	1.5522		1.5522	1.5522		24,508.7261	24,508.7261	0.4698	0.4493	24,657.8821

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					
Hospital	208324	2.2466	20.4239	17.1561	0.1225		1.5522	1.5522		1.5522	1.5522		24,508.7261	24,508.7261	0.4698	0.4493	24,657.8821
Total		2.2466	20.4239	17.1561	0.1225		1.5522	1.5522		1.5522	1.5522		24,508.7261	24,508.7261	0.4698	0.4493	24,657.8821

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					
Hospital	208.324	2.2466	20.4239	17.1561	0.1225		1.5522	1.5522		1.5522	1.5522		24,508.7261	24,508.7261	0.4698	0.4493	24,657.8821
Total		2.2466	20.4239	17.1561	0.1225		1.5522	1.5522		1.5522	1.5522		24,508.7261	24,508.7261	0.4698	0.4493	24,657.8821

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
--	-----	-----	----	-----	---------------	--------------	------------	----------------	---------------	-------------	----------	-----------	-----------	-----	-----	------

Total	16.9457	6.6000e-004	0.0718	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1528	0.1528	4.1000e-004		0.1614
-------	---------	-------------	--------	-------------	--	-------------	-------------	--	-------------	-------------	--	--------	--------	-------------	--	--------

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
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Vegetation

Phase 1 Existing
Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	698.30	1000sqft	16.03	698,304.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - co2 = 290

Land Use - 698304

Vehicle Trips - Trip Rate of 8.15 x 698.304 (SQ FT) = 5,690 Trips (See TIA)

Energy Use - historical energy use

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblLandUse	LandUseSquareFeet	698,300.00	698,304.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290

tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleTrips	ST_TR	10.18	8.15
tblVehicleTrips	SU_TR	8.91	8.15
tblVehicleTrips	WD_TR	16.50	8.15

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	0.8019	6.4329	6.4048	9.4300e-003	0.5024	0.3330	0.8353	0.1801	0.3109	0.4911		835.8839	835.8839	0.1173	0.0000	838.3465
2016	8.4008	2.2882	2.5373	4.1800e-003	0.1419	0.1213	0.2632	0.0385	0.1136	0.1521		361.2754	361.2754	0.0426	0.0000	362.1706
Total	9.2026	8.7211	8.9421	0.0136	0.6443	0.4543	1.0985	0.2186	0.4246	0.6432		1,197.1594	1,197.1594	0.1599	0.0000	1,200.5171

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	0.8019	6.4329	6.4048	9.4300e-003	0.5024	0.3330	0.8353	0.1801	0.3109	0.4911		835.8835	835.8835	0.1173	0.0000	838.3460
2016	8.4008	2.2882	2.5373	4.1800e-003	0.1419	0.1213	0.2632	0.0385	0.1136	0.1521		361.2753	361.2753	0.0426	0.0000	362.1704
Total	9.2026	8.7211	8.9421	0.0136	0.6443	0.4543	1.0985	0.2186	0.4246	0.6432		1,197.1587	1,197.1587	0.1599	0.0000	1,200.5164

[illegible]

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	3.0920	6.0000e-005	6.4600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0125	0.0125	3.0000e-005	0.0000	0.0132
Energy	0.4100	3.7274	3.1310	0.0224		0.2833	0.2833		0.2833	0.2833		5,682.6299	5,682.6299	0.2403	0.1080	5,721.1587
Mobile	2.8653	6.6711	29.5367	0.0762	5.3321	0.0997	5.4318	1.4309	0.0920	1.5229		5,328.6052	5,328.6052	0.1973	0.0000	5,332.7485
Waste						0.0000	0.0000		0.0000	0.0000		0.0000	1,530.8848	90.4727	0.0000	3,430.8114
Water						0.0000	0.0000		0.0000	0.0000		70.0518	97.8505	2.8622	0.0689	179.3055
Total	6.3672	10.3986	32.6741	0.0985	5.3321	0.3830	5.7151	1.4309	0.3753	1.8062		11,081.2993	12,639.9828	93.7725	0.1769	14,664.0373

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	3.0920	6.0000e-005	6.4600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0125	0.0125	3.0000e-005	0.0000	0.0132
Energy	0.4100	3.7274	3.1310	0.0224		0.2833	0.2833		0.2833	0.2833		5,682.6299	5,682.6299	0.2403	0.1080	5,721.1587
Mobile	2.8653	6.6711	29.5367	0.0762	5.3321	0.0997	5.4318	1.4309	0.0920	1.5229		5,328.6052	5,328.6052	0.1973	0.0000	5,332.7485

Waste						0.0000	0.0000		0.0000	0.0000		0.0000	1,530.8848	90.4727	0.0000	3,430.8114
Water						0.0000	0.0000		0.0000	0.0000		70.0518	97.8505	2.8617	0.0688	179.2611
Total	6.3672	10.3986	32.6741	0.0985	5.3321	0.3830	5.7151	1.4309	0.3753	1.8062		11,081.2993	12,639.9828	93.7720	0.1768	14,663.9929

	ROG	NOx	CO	SO2	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	0.06	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/28/2015	5	20	
2	Site Preparation	Site Preparation	1/29/2015	2/11/2015	5	10	
3	Grading	Grading	2/12/2015	3/25/2015	5	30	
4	Building Construction	Building Construction	3/26/2015	5/18/2016	5	300	
5	Paving	Paving	5/19/2016	6/15/2016	5	20	
6	Architectural Coating	Architectural Coating	6/16/2016	7/13/2016	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,047,456; Non-Residential Outdoor: 349,152 (Architectural

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40

Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	223.00	114.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	45.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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	0.0451	0.4836	0.3607	4.0000e-004		0.0245	0.0245		0.0229	0.0229		37.4413	37.4413	0.0102	0.0000	37.6544
Total	0.0451	0.4836	0.3607	4.0000e-004		0.0245	0.0245		0.0229	0.0229		37.4413	37.4413	0.0102	0.0000	37.6544

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-004	9.2000e-004	8.9400e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2786	1.2786	7.0000e-005	0.0000	1.2801
Total	6.4000e-004	9.2000e-004	8.9400e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2786	1.2786	7.0000e-005	0.0000	1.2801

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	0.0451	0.4836	0.3607	4.0000e-004		0.0245	0.0245		0.0229	0.0229		37.4412	37.4412	0.0102	0.0000	37.6544
Total	0.0451	0.4836	0.3607	4.0000e-004		0.0245	0.0245		0.0229	0.0229		37.4412	37.4412	0.0102	0.0000	37.6544

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-004	9.2000e-004	8.9400e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2786	1.2786	7.0000e-005	0.0000	1.2801
Total	6.4000e-004	9.2000e-004	8.9400e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2786	1.2786	7.0000e-005	0.0000	1.2801

3.3 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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0263	0.2845	0.2132	2.0000e-004		0.0154	0.0154		0.0142	0.0142		18.6506	18.6506	5.5700e-003	0.0000	18.7675

Total	0.0263	0.2845	0.2132	2.0000e-004	0.0903	0.0154	0.1058	0.0497	0.0142	0.0639		18.6506	18.6506	5.5700e-003	0.0000	18.7675
-------	--------	--------	--------	-------------	--------	--------	--------	--------	--------	--------	--	---------	---------	-------------	--------	---------

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	5.5000e-004	5.3600e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.2000e-004	2.2000e-004	1.0000e-005	2.2000e-004		0.7671	0.7671	4.0000e-005	0.0000	0.7681
Total	3.8000e-004	5.5000e-004	5.3600e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.2000e-004	2.2000e-004	1.0000e-005	2.2000e-004		0.7671	0.7671	4.0000e-005	0.0000	0.7681

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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0263	0.2845	0.2132	2.0000e-004		0.0154	0.0154		0.0142	0.0142		18.6505	18.6505	5.5700e-003	0.0000	18.7675
Total	0.0263	0.2845	0.2132	2.0000e-004	0.0903	0.0154	0.1058	0.0497	0.0142	0.0639		18.6505	18.6505	5.5700e-003	0.0000	18.7675

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	5.5000e-004	5.3600e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.2000e-004	2.2000e-004	1.0000e-005	2.2000e-004		0.7671	0.7671	4.0000e-005	0.0000	0.7681
Total	3.8000e-004	5.5000e-004	5.3600e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.2000e-004	2.2000e-004	1.0000e-005	2.2000e-004		0.7671	0.7671	4.0000e-005	0.0000	0.7681

3.4 Grading - 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					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1016	1.1857	0.7626	9.3000e-004		0.0570	0.0570		0.0525	0.0525		88.2633	88.2633	0.0264	0.0000	88.8167
Total	0.1016	1.1857	0.7626	9.3000e-004	0.1301	0.0570	0.1871	0.0540	0.0525	0.1064		88.2633	88.2633	0.0264	0.0000	88.8167

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2700e-003	1.8400e-003	0.0179	3.0000e-005	2.7200e-003	2.0000e-005	2.7500e-003	7.2000e-004	2.0000e-005	7.5000e-004		2.5571	2.5571	1.5000e-004	0.0000	2.5603
Total	1.2700e-003	1.8400e-003	0.0179	3.0000e-005	2.7200e-003	2.0000e-005	2.7500e-003	7.2000e-004	2.0000e-005	7.5000e-004		2.5571	2.5571	1.5000e-004	0.0000	2.5603

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					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1016	1.1857	0.7626	9.3000e-004		0.0570	0.0570		0.0525	0.0525		88.2632	88.2632	0.0264	0.0000	88.8166
Total	0.1016	1.1857	0.7626	9.3000e-004	0.1301	0.0570	0.1871	0.0540	0.0525	0.1064		88.2632	88.2632	0.0264	0.0000	88.8166

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2700e-003	1.8400e-003	0.0179	3.0000e-005	2.7200e-003	2.0000e-005	2.7500e-003	7.2000e-004	2.0000e-005	7.5000e-004		2.5571	2.5571	1.5000e-004	0.0000	2.5603
Total	1.2700e-003	1.8400e-003	0.0179	3.0000e-005	2.7200e-003	2.0000e-005	2.7500e-003	7.2000e-004	2.0000e-005	7.5000e-004		2.5571	2.5571	1.5000e-004	0.0000	2.5603

3.5 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3677	3.0180	1.8838	2.7000e-003		0.2127	0.2127		0.2000	0.2000		245.2143	245.2143	0.0615	0.0000	246.5063
Total	0.3677	3.0180	1.8838	2.7000e-003		0.2127	0.2127		0.2000	0.2000		245.2143	245.2143	0.0615	0.0000	246.5063

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1638	1.3204	1.8166	2.7400e-003	0.0737	0.0214	0.0951	0.0212	0.0197	0.0408		250.6810	250.6810	2.2500e-003	0.0000	250.7283
Worker	0.0950	0.1375	1.3357	2.4200e-003	0.2033	1.8000e-003	0.2051	0.0541	1.6500e-003	0.0557		191.0307	191.0307	0.0112	0.0000	191.2648
Total	0.2588	1.4579	3.1523	5.1600e-003	0.2770	0.0232	0.3002	0.0752	0.0213	0.0966		441.7117	441.7117	0.0134	0.0000	441.9931

Mitigated Construction On-Site

Total	0.1686	1.4111	0.9161	1.3300e-003		0.0974	0.0974		0.0915	0.0915		119.8660	119.8660	0.0297	0.0000	120.4903
-------	--------	--------	--------	-------------	--	--------	--------	--	--------	--------	--	----------	----------	--------	--------	----------

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0718	0.5656	0.8347	1.3400e-003	0.0363	8.4400e-003	0.0448	0.0104	7.7500e-003	0.0182		122.0351	122.0351	9.8000e-004	0.0000	122.0557
Worker	0.0419	0.0607	0.5876	1.1900e-003	0.1001	8.4000e-004	0.1010	0.0266	7.7000e-004	0.0274		90.8681	90.8681	5.0100e-003	0.0000	90.9732
Total	0.1137	0.6262	1.4223	2.5300e-003	0.1365	9.2800e-003	0.1457	0.0371	8.5200e-003	0.0456		212.9032	212.9032	5.9900e-003	0.0000	213.0289

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	0.1686	1.4111	0.9161	1.3300e-003		0.0974	0.0974		0.0915	0.0915		119.8659	119.8659	0.0297	0.0000	120.4902
Total	0.1686	1.4111	0.9161	1.3300e-003		0.0974	0.0974		0.0915	0.0915		119.8659	119.8659	0.0297	0.0000	120.4902

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0718	0.5656	0.8347	1.3400e-003	0.0363	8.4400e-003	0.0448	0.0104	7.7500e-003	0.0182		122.0351	122.0351	9.8000e-004	0.0000	122.0557
Worker	0.0419	0.0607	0.5876	1.1900e-003	0.1001	8.4000e-004	0.1010	0.0266	7.7000e-004	0.0274		90.8681	90.8681	5.0100e-003	0.0000	90.9732
Total	0.1137	0.6262	1.4223	2.5300e-003	0.1365	9.2800e-003	0.1457	0.0371	8.5200e-003	0.0456		212.9032	212.9032	5.9900e-003	0.0000	213.0289

3.6 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0209	0.2239	0.1482	2.2000e-004		0.0126	0.0126		0.0116	0.0116		21.0138	21.0138	6.3400e-003	0.0000	21.1469
Paving	0.0000					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0209	0.2239	0.1482	2.2000e-004		0.0126	0.0126		0.0116	0.0116		21.0138	21.0138	6.3400e-003	0.0000	21.1469

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	8.2000e-004	7.9800e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2348	1.2348	7.0000e-005	0.0000	1.2362
Total	5.7000e-004	8.2000e-004	7.9800e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2348	1.2348	7.0000e-005	0.0000	1.2362

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	0.0209	0.2239	0.1482	2.2000e-004		0.0126	0.0126		0.0116	0.0116		21.0138	21.0138	6.3400e-003	0.0000	21.1469
Paving	0.0000					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0209	0.2239	0.1482	2.2000e-004		0.0126	0.0126		0.0116	0.0116		21.0138	21.0138	6.3400e-003	0.0000	21.1469

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	8.2000e-004	7.9800e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2348	1.2348	7.0000e-005	0.0000	1.2362
Total	5.7000e-004	8.2000e-004	7.9800e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004		1.2348	1.2348	7.0000e-005	0.0000	1.2362

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	8.0916					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6800e-003	0.0237	0.0188	3.0000e-005		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		2.5533	2.5533	3.0000e-004	0.0000	2.5596
Total	8.0953	0.0237	0.0188	3.0000e-005		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		2.5533	2.5533	3.0000e-004	0.0000	2.5596

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7100e-003	2.4700e-003	0.0240	5.0000e-005	4.0800e-003	3.0000e-005	4.1200e-003	1.0900e-003	3.0000e-005	1.1200e-003		3.7044	3.7044	2.0000e-004	0.0000	3.7087
Total	1.7100e-003	2.4700e-003	0.0240	5.0000e-005	4.0800e-003	3.0000e-005	4.1200e-003	1.0900e-003	3.0000e-005	1.1200e-003		3.7044	3.7044	2.0000e-004	0.0000	3.7087

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	8.0916					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6800e-003	0.0237	0.0188	3.0000e-005		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		2.5533	2.5533	3.0000e-004	0.0000	2.5596
Total	8.0953	0.0237	0.0188	3.0000e-005		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		2.5533	2.5533	3.0000e-004	0.0000	2.5596

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7100e-003	2.4700e-003	0.0240	5.0000e-005	4.0800e-003	3.0000e-005	4.1200e-003	1.0900e-003	3.0000e-005	1.1200e-003		3.7044	3.7044	2.0000e-004	0.0000	3.7087
Total	1.7100e-003	2.4700e-003	0.0240	5.0000e-005	4.0800e-003	3.0000e-005	4.1200e-003	1.0900e-003	3.0000e-005	1.1200e-003		3.7044	3.7044	2.0000e-004	0.0000	3.7087

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	2.8653	6.6711	29.5367	0.0762	5.3321	0.0997	5.4318	1.4309	0.0920	1.5229	5,328.6052	5,328.6052	0.1973	0.0000	5,332.7485
Unmitigated	2.8653	6.6711	29.5367	0.0762	5.3321	0.0997	5.4318	1.4309	0.0920	1.5229	5,328.6052	5,328.6052	0.1973	0.0000	5,332.7485

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hospital	5,691.15	5,691.15	5691.15	14,332,787	14,332,787
Total	5,691.15	5,691.15	5,691.15	14,332,787	14,332,787

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hospital	9.50	7.30	7.30	64.90	16.10	19.00	73	25	2

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.546690	0.063179	0.174273	0.121979	0.033815	0.004830	0.015501	0.025302	0.002100	0.003252	0.006757	0.000658	0.001666

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: Y

5.1 Mitigation Measures Energy

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

Electricity Mitigated						0.0000	0.0000		0.0000	0.0000		1,624.9354	1,624.9354	0.1625	0.0336	1,638.7698
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000		1,624.9354	1,624.9354	0.1625	0.0336	1,638.7698
NaturalGas Mitigated	0.4100	3.7274	3.1310	0.0224		0.2833	0.2833		0.2833	0.2833		4,057.6945	4,057.6945	0.0778	0.0744	4,082.3889
NaturalGas Unmitigated	0.4100	3.7274	3.1310	0.0224		0.2833	0.2833		0.2833	0.2833		4,057.6945	4,057.6945	0.0778	0.0744	4,082.3889

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	tons/yr										MT/yr					
Hospital	7.60383e+007	0.4100	3.7274	3.1310	0.0224		0.2833	0.2833		0.2833	0.2833		4,057.6945	4,057.6945	0.0778	0.0744	4,082.3889
Total		0.4100	3.7274	3.1310	0.0224		0.2833	0.2833		0.2833	0.2833		4,057.6945	4,057.6945	0.0778	0.0744	4,082.3889

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					
Hospital	7.60383e+007	0.4100	3.7274	3.1310	0.0224		0.2833	0.2833		0.2833	0.2833		4,057.6945	4,057.6945	0.0778	0.0744	4,082.3889
Total		0.4100	3.7274	3.1310	0.0224		0.2833	0.2833		0.2833	0.2833		4,057.6945	4,057.6945	0.0778	0.0744	4,082.3889

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hospital	1.2353e+07	1,624.9354	0.1625	0.0336	1,638.7698
Total		1,624.9354	0.1625	0.0336	1,638.7698

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hospital	1.2353e+07	1,624.9354	0.1625	0.0336	1,638.7698
Total		1,624.9354	0.1625	0.0336	1,638.7698

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	3.0920	6.0000e-005	6.4600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0125	0.0125	3.0000e-005	0.0000	0.0132
Unmitigated	3.0920	6.0000e-005	6.4600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0125	0.0125	3.0000e-005	0.0000	0.0132

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	0.3641					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.7272					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.1000e-004	6.0000e-005	6.4600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0125	0.0125	3.0000e-005	0.0000	0.0132
Total	3.0920	6.0000e-005	6.4600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0125	0.0125	3.0000e-005	0.0000	0.0132

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	0.3641					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.7272					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Landscaping	6.1000e-004	6.0000e-005	6.4600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0125	0.0125	3.0000e-005	0.0000	0.0132
Total	3.0920	6.0000e-005	6.4600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0125	0.0125	3.0000e-005	0.0000	0.0132

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	97.8505	2.8617	0.0688	179.2611
Unmitigated	97.8505	2.8622	0.0689	179.3055

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hospital	87.6231 / 16.6901	97.8505	2.8622	0.0689	179.3055
Total		97.8505	2.8622	0.0689	179.3055

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hospital	87.6231 / 16.6901	97.8505	2.8617	0.0688	179.2611
Total		97.8505	2.8617	0.0688	179.2611

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1,530.8848	90.4727	0.0000	3,430.8114
Unmitigated	1,530.8848	90.4727	0.0000	3,430.8114

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
--	----------------	-----------	-----	-----	------

Land Use	tons	MT/yr			
Hospital	7541.64	1,530.8848	90.4727	0.0000	3,430.8114
Total		1,530.8848	90.4727	0.0000	3,430.8114

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hospital	7541.64	1,530.8848	90.4727	0.0000	3,430.8114
Total		1,530.8848	90.4727	0.0000	3,430.8114

9.0 Operational Offroad

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

10.0 Vegetation

Cancer (In a Million)																
Height	B1	B2	B3	B4	B5	B6	B7	BLMR_GEN	CUP_GEN1	CUP_GEN2	HELISTOP	LOADING	OPC1_GEN	Ambulance	TRK_IDLI	Sum
0 Feet	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.21	0.21	0.00	0.00	0.02	0.00	0.00	0.46
Play Yard	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	0.01

PM _{2.5}																
Height	B1	B2	B3	B4	B5	B6	B7	BLMR_GEN	CUP_GEN1	CUP_GEN2	HELISTOP	LOADING	OPC1_GEN	Ambulance	TRK_IDLI	Sum
0 Feet	0.033	0.033	0.096	0.097	0.098	0.011	0.011	0.001	0.008	0.008	0.000	0.001	0.001	0.000	0.000	0.397
Play Yard	0.003	0.003	0.008	0.007	0.007	0.004	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.037

Chronic HI																
Height	B1	B2	B3	B4	B5	B6	B7	BLMR_GEN	CUP_GEN1	CUP_GEN2	HELISTOP	LOADING	OPC1_GEN	Ambulance	TRK_IDLI	Sum
0 Feet	0.0001	0.0001	0.0002	0.0002	0.0002	0.0000	0.0000	0.000	0.003	0.003	0.002	0.000	0.000	0.000	0.000	0.010
Play Yard	3.00E-06	3.09E-06	8.42E-06	8.13E-06	7.91E-06	4.67E-06	4.65E-06	1.41E-05	7.34E-05	7.22E-05	1.73E-05	4.21E-05	5.61E-05	2.35E-06	3.18E-08	3.17E-04

Acute HI																
Height	B1	B2	B3	B4	B5	B6	B7	BLMR_GEN	CUP_GEN1	CUP_GEN2	HELISTOP	LOADING	OPC1_GEN	Ambulance	TRK_IDLI	Sum
0 Feet	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.131	0.000	0.135
Play Yard	0.00E+00	2.27E-05	5.81E-05	5.64E-05	5.50E-05	2.73E-05	2.69E-05	0.00E+00	0.00E+00	0.00E+00	4.73E-05	0.00E+00	0.00E+00	8.40E-04	0.00E+00	0.001

Units	Tons/Yr					MT/Yr
	NOx	CO	VOC	PM10	SO2	CO2e
B-1	0.13	0.82	0.03	0.04	0.00	595.09
B-2	0.13	0.82	0.03	0.04	0.00	595.09
B-3	0.34	2.04	0.08	0.10	0.01	1487.71
B-4	0.34	2.04	0.08	0.10	0.01	1487.71
B-5	0.34	2.04	0.08	0.10	0.01	1487.71
B-6	0.20	1.23	0.05	0.06	0.00	892.63
B-7	0.20	1.23	0.05	0.06	0.00	892.63
CUP Gen 1	0.66	0.09	0.01	0.01	0	11.32
CUP Gen 2	0.66	0.09	0.01	0.01	0	11.32
OPC1 Gen	0.26	0.03	0.00	0.01	0	4.53
BLMR Gen	0.06	0.01	0.00	0.00	0	0.99
Helicopter	0.20	0.10	0.02	0.01	0.03	64.67
Truck/Service Travel	0.00	0.02	0.00	0.00	0.00	1.66
Truck/Service Idle	0.14	0.04	0.00	0.00	0.00	11.23
Ambulance Travel	0.00	0.00	0.00	0.00	0.00	0.18
Ambulance Idle	0.00	0.00	0.00	0.00	0.00	0

Units	Toxicity Wt Ems Rate			PM Ems
	Cancer	Acute	Chronic	Lbs/Yr
B-1	8.17E-11	2.70E-07	1.32E-06	83.55
B-2	8.17E-11	2.70E-07	1.32E-06	83.55
B-3	2.04E-10	6.75E-07	3.31E-06	208.87
B-4	2.04E-10	6.75E-07	3.31E-06	208.87
B-5	2.04E-10	6.75E-07	3.31E-06	208.87
B-6	1.23E-10	4.05E-07	1.99E-06	125.32
B-7	1.23E-10	4.05E-07	1.99E-06	125.32
CUP Gen 1				25.67
CUP Gen 2				25.67
OPC1 Gen				10.26
BLMR Gen				2.25
Helicopter	2.30E-09	1.91E-06	5.19E-05	0.02
Truck/Service Travel				1.91
Truck/Service Idle				0.00
Ambulance Travel	1.21E-09	4.32E-06	2.44E-07	0.00
Ambulance Idle				0.00

NOx	CO	VOC	PM10	SO2	Benzene	Formaldehyde	Toluene	NOx	CO	VOC	PM10	SO2	Benzene	Formaldehyde	Toluene
2.40E-02	1.46E-01	5.39E-03	7.45E-03	5.88E-04	2.06E-06	7.35E-05	3.33E-06								
Tons/Year (Toxic in Lbs)								Lbs/hr							
0.13	0.82	0.03	0.04	0.00	0.02	0.82	0.04	0.04	0.23	0.01	0.01	0.00	3.29E-06	1.18E-04	5.33E-06
0.13	0.82	0.03	0.04	0.00	0.02	0.82	0.04	0.04	0.23	0.01	0.01	0.00	3.29E-06	1.18E-04	5.33E-06
0.34	2.04	0.08	0.10	0.01	0.06	2.06	0.09	0.10	0.58	0.02	0.03	0.00	8.24E-06	2.94E-04	1.33E-05
0.34	2.04	0.08	0.10	0.01	0.06	2.06	0.09	0.10	0.58	0.02	0.03	0.00	8.24E-06	2.94E-04	1.33E-05
0.34	2.04	0.08	0.10	0.01	0.06	2.06	0.09	0.10	0.58	0.02	0.03	0.00	8.24E-06	2.94E-04	1.33E-05
0.20	1.23	0.05	0.06	0.00	0.03	1.24	0.06	0.06	0.35	0.01	0.02	0.00	4.94E-06	1.76E-04	8.00E-06
0.20	1.23	0.05	0.06	0.00	0.03	1.24	0.06	0.06	0.35	0.01	0.02	0.00	4.94E-06	1.76E-04	8.00E-06

	CAS#
Chemical Component	
Benzene	71432
Formaldehyde	50000
Toluene	108883

Toxicity Wt Ems Rate		
Cancer	Acute	Chronic
8.17E-11	2.70E-07	1.32E-06
8.17E-11	2.70E-07	1.32E-06
2.04E-10	6.75E-07	3.31E-06
2.04E-10	6.75E-07	3.31E-06
2.04E-10	6.75E-07	3.31E-06
1.23E-10	4.05E-07	1.99E-06
1.23E-10	4.05E-07	1.99E-06
Cancer Risk Factors	Chronic REL	Acute REL
(ug/m3)-1	(ug/m3)	(ug/m3)
0.000029	60	1300
0.00000608	9	55
0	300	37000

EPA
GHG EF

kg CO2 per mmBtu	g CH4 per mmBtu	g N2O per mmBtu	CO2e
53.02	1	0.1	
MT / Year			
594.50	0.01	0.00	595.09
594.50	0.01	0.00	595.09
1486.26	0.03	0.00	1487.71
1486.26	0.03	0.00	1487.71
1486.26	0.03	0.00	1487.71
891.75	0.02	0.00	892.63
891.75	0.02	0.00	892.63

				g/hp-hr	Nox	CO	HC	PM	kg CO2 per gallon	g CH4 per gallon	g N2O per gallon	CO2e	
					9.93	1.29	0.1	0.193					
		HP	Gal/hr	Hr/yr	Lbs/ Yr								
				MT / Year									
Caterpillar 3512 (Model Yr 2001)	1500kW/1875kVA(2011 BHP)	2011	36.85	30	1320.72	171.57	13.30	25.67	EPA	11.29	0.00	0.00	11.32
Caterpillar 3512 (Model Yr 2001)	1500kW/1875kVA (2011 BHP)	2011	36.85	30	1320.72	171.57	13.30	25.67		11.29	0.00	0.00	11.32
Kohler/Engine: Detroit Diesel C Model 12V92	600kW/750kVA (804 BHP)	804	14.73	30	528.02	68.60	5.32	10.26	GHG EF	4.51	0.00	0.00	4.53
	Detroit Diesel 131kW	176	3.22	30	115.59	15.02	1.16	2.25		0.99	0.00	0.00	0.99

EDMS EF (Lbs / Yr / Event) - Bell 222													
Event	CO	VOC	TOG	NOx	SOx	PM-10	PM-2.5	CO2	Formaldehyde	Benzene	Acetaldehyde	1,3-butadiene	Acrolein
Approach	0.287	0.061	0.061	0.139	0.022	0.011	0.011	54.137	0.008	0.001	0.003	0.001	0.002
Climbout	0.072	0.006	0.006	0.412	0.059	0.008	0.008	143.264	0.001	0	0	0	0
Takeoff	0.036	0.003	0.003	0.206	0.029	0.005	0.005	71.585	0	0	0	0	0

2013 Arrive/Depart (Lbs/yr)														Toxicity Wt Ems Rate		
559	CO	VOC	TOG	NOx	SOx	PM-10	PM-2.5	CO2	Formaldehyde	Benzene	Acetaldehyde	1,3-butadiene	Acrolein	Cancer	Acute	Chronic
Approach	160.43	34.10	34.10	77.70	12.30	6.15	6.15	30,262.58	4.47	0.56	1.68	0.56	1.12	2.38E-09	1.87E-06	5.38E-05
Climbout	40.25	3.35	3.35	230.31	32.98	4.47	4.47	80,084.58	0.56	0.00	0.00	0.00	0.00	4.89E-11	1.46E-07	8.93E-07
Takeoff	20.12	1.68	1.68	115.15	16.21	2.80	2.80	40,016.02	0.00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0.00E+00
Total	220.81	39.13	39.13	423.16	61.49	13.42	13.42	150,363.17	5.03	0.56	1.68	0.56	1.12	2.43E-09	2.02E-06	5.47E-05

Phase 1 arrive/depart (Lbs/yr)														Toxicity Wt Ems Rate		
600	CO	VOC	TOG	NOx	SOx	PM-10	PM-2.5	CO2	Formaldehyde	Benzene	Acetaldehyde	1,3-butadiene	Acrolein	Cancer	Acute	Chronic
Approach	172.20	36.60	36.60	83.40	13.20	6.60	6.60	32,482.20	4.80	0.60	1.80	0.60	1.20	2.55E-09	2.01E-06	5.77E-05
Climbout	43.20	3.60	3.60	247.20	35.40	4.80	4.80	85,958.40	0.60	0.00	0.00	0.00	0.00	5.25E-11	1.57E-07	9.59E-07
Takeoff	21.60	1.80	1.80	123.60	17.40	3.00	3.00	42,951.00	0.00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0.00E+00
Total	237.00	42.00	42.00	454.20	66.00	14.40	14.40	161,391.60	5.40	0.60	1.80	0.60	1.20	2.60E-09	2.16E-06	5.87E-05

Phase 2 arrive/depart (Lbs/yr)														Toxicity Wt Ems Rate		
630	CO	VOC	TOG	NOx	SOx	PM-10	PM-2.5	CO2	Formaldehyde	Benzene	Acetaldehyde	1,3-butadiene	Acrolein	Cancer	Acute	Chronic
Approach	180.81	38.43	38.43	87.57	13.86	6.93	6.93	34,106.31	5.04	0.63	1.89	0.63	1.26	2.68E-09	2.11E-06	6.06E-05
Climbout	45.36	3.78	3.78	259.56	37.17	5.04	5.04	90,256.32	0.63	0.00	0.00	0.00	0.00	5.51E-11	1.65E-07	1.01E-06
Takeoff	22.68	1.89	1.89	129.78	18.27	3.15	3.15	45,098.55	0.00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0.00E+00
Total	248.85	44.10	44.10	476.91	69.30	15.12	15.12	169,461.18	5.67	0.63	1.89	0.63	1.26	2.73E-09	2.27E-06	6.16E-05

Evaporavtive Losses

Toxic Emissions by Vehicles Category (Lbs/Day)																									
Running Exhaust																			Toxicity Wt Ems Rate						
Chemical Component	CAS#	Cancer Risk Factors (ug/m3)-1	Chronic REL (ug/m3)	Acute REL (ug/m3)	LDA	LDT1	LDT2	LHD1	LHD2	MDV	MH	OBUS	SBUS	T6	T7	UBUS	MCY	Sum of Emissions Lbs/Yr	G/sec	Cancer	Acute	Chronic			
Acetaldehyde	75070	0.0000027	140	470	0	0	0	0	0.000353938	0	0	0	0	0	0	0	0	0.00035394	0.129187	1.86E-06	5.02E-12	1.33E-08	3.95E-09	0.003	0.016
Acrolein	107028	0.00002	0.35	25	0	0	0	0	0.000164328	0	0	0	0	0	0	0	0	0.00016433	0.05998	8.63E-07	1.73E-11	2.46E-06	3.45E-08	0.570	0.141
Benzene	71432	0.000029	60	1300	0	0	0	0	0.003122235	0	0	0	0	0	0	0	0	0.00312223	1.139616	1.64E-05	4.75E-10	2.73E-07	1.26E-08	0.063	0.052
1,3-Butadiene	106990	0.00017	20		0	0	0	0	0.000695234	0	0	0	0	0	0	0	0	0.00069523	0.253761	3.65E-06	6.20E-10	1.82E-07	0.00E+00	0.042	0.000
Ethylbenzene	100414	0.00000252	2000	0	0	0	0	0	0.001327266	0	0	0	0	0	0	0	0	0.00132727	0.484452	6.97E-06	1.76E-11	3.48E-09	0.00E+00	0.001	0.000
Formaldehyde	50000	0.00000608	9	55	0	0	0	0	0.001997219	0	0	0	0	0	0	0	0	0.00199722	0.728985	1.05E-05	6.38E-11	1.17E-06	1.91E-07	0.270	0.780
Hexane	110543	0	7000	0	0	0	0	0	0.0020225	0	0	0	0	0	0	0	0	0.0020225	0.738213	1.06E-05	0.00E+00	1.52E-09	0.00E+00	0.000	0.000
Methanol	67561	0	4000	28000	0	0	0	0	0.000151688	0	0	0	0	0	0	0	0	0.00015169	0.055366	7.96E-07	0.00E+00	1.99E-10	2.84E-11	0.000	0.000
Methyl Ethyl Ketone	78933	0	4000	28000	0	0	0	0	2.52813E-05	0	0	0	0	0	0	0	0	2.5281E-05	0.009228	1.33E-07	0.00E+00	3.32E-11	4.74E-12	0.000	0.000
Naphthalene	91203	0.000034	9	0	0	0	0	0	6.32031E-05	0	0	0	0	0	0	0	0	6.3203E-05	0.023069	3.32E-07	1.13E-11	3.69E-08	0.00E+00	0.009	0.000
Propylene	115071	0	3000	0	0	0	0	0	0.003868032	0	0	0	0	0	0	0	0	0.00386803	1.411832	2.03E-05	0.00E+00	6.77E-09	0.00E+00	0.002	0.000
Styrene	100425	0	900	21000	0	0	0	0	0.000151688	0	0	0	0	0	0	0	0	0.00015169	0.055366	7.96E-07	0.00E+00	8.85E-10	3.79E-11	0.000	0.000
Toluene	108883	0	300	37000	0	0	0	0	0.007281001	0	0	0	0	0	0	0	0	0.007281	2.657565	3.82E-05	0.00E+00	1.27E-07	1.03E-09	0.029	0.004
Xylenes	1330207	0	700	22000	0	0	0	0	0.006067501	0	0	0	0	0	0	0	0	0.0060675	2.214638	3.19E-05	0.00E+00	4.55E-08	1.45E-09	0.011	0.006
																			Sub Total	1.21E-09	4.32E-06	2.44E-07			

Mode																					
Time per LTO Cycle (minutes)																					
Takeoff		Climbout		Approach																	
2.17		4.33		6.5																	
Emission Indices (g/Kg) per LTO Cycle																					
		Carbon		Hydrocarbons		Oxides of															
		Monoxide (CO)		(HC)		Nitrogen		Oxides of													
						(NOX)		Sulfur (SOX)													
Approach		47.2		5.2		2.2		0.54													
Climbout		9.02		0.4		5.96		0.54													
Takeoff		7.81		0.3		6.6		0.54													
(Kg/hr) per LTO Cycle																					
		Carbon		Hydrocarbons		Oxides of		Oxides of													
		Monoxide (CO)		(HC)		Nitrogen		Sulfur (SOX)		PM10											
						(NOX)															
Approach		2.1306		0.2347		0.0993		0.0244		0.27											
Climbout		0.2712		0.0120		0.1792		0.0162		0.27											
Takeoff		0.1177		0.0045		0.0995		0.0081		0.36											
EDMS EF (Lbs / Yr / Event) - Bell 222																					
		CO		VOC		TOG		NOx		SOx		PM-10		PM-2.5	CO2	Forma	Benzen	Acetald	1,3-buta	Acrolein	
Approach		0.287		0.061		0.061		0.139		0.022		0.011	0.011	54.14	0.008	0.001	0.003	0.001	0.001	0.002	
Climbout		0.072		0.006		0.006		0.412		0.059		0.008	0.008	143.3	0.001	0	0	0	0	0	
Takeoff		0.036		0.003		0.003		0.206		0.029		0.005	0.005	71.59	0	0	0	0	0	0	
Total																					
A/D				2012 arrive/depart (Lbs/yr)																	
		530	CO	HC	Nox	Sox	PM10														
Approach		269.69		29.71	12.57	3.09	34.18														
Climbout		22.87		1.01	15.11	1.37	22.77														
Takeoff		4.97		0.19	4.20	0.34	15.21														
Total		297.53		30.92	31.89	4.80	72.16														
A/D				2017 arrive/depart (Lbs/yr)																	
		567.1	CO	HC	Nox	Sox	PM10														
Approach		288.57		31.79	13.45	3.30	36.57														
Climbout		24.47		1.09	16.17	1.47	24.36														
Takeoff		5.32		0.20	4.50	0.37	16.28														
Total		318.36		33.08	34.12	5.13	77.21														
A/D				2023 arrive/depart (Lbs/yr)																	
		1,261	CO	HC	Nox	Sox	PM10														
Approach		641.66		70.69	29.91	7.34	81.32														
Climbout		54.41		2.41	35.95	3.26	54.17														
Takeoff		11.83		0.45	10.00	0.82	36.20														
Total		707.91		73.56	75.86	11.42	171.68														

Equation F-2

Aircraft Particulate (PM₁₀) Emission Indices Calculation Equation

$EI_m = PM_m / [(60/1000)(NE_a)(FF_m)(TIM_m)]$

where:

- EI_m = Emission index of the engine type in g/Kg of fuel burned for the specified mode m
- PM_m = PM₁₀ emissions from one aircraft type for mode m during one LTO cycle
- 60 = Number of seconds per minute
- 1000 = Number of grams per kilogram
- NE_a = Number of engines on aircraft a
- FF_m = Fuel flow rate of the engine type in Kg/sec for the specified mode m
- TIM_m = Time in mode in hours for specified mode m for a single engine

90 kg/hr
0.025 kg.sec

Cancer (In a Million)																
Height	B1	B2	B3	B4	B5	B6	B7	BLMR_GEN	CUP_GEN1	CUP_GEN2	HELISTOP	LOADING	OPC1_GEN	Ambulance	TRK_IDLI	Sum
0 Feet	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	1.57	1.57	0.00	0.00	4.60	0.00	0.00	7.88

PM _{2.5}																
Height	B1	B2	B3	B4	B5	B6	B7	BLMR_GEN	CUP_GEN1	CUP_GEN2	HELISTOP	LOADING	OPC1_GEN	Ambulance	TRK_IDLI	Sum
0 Feet	0.020	0.020	0.053	0.053	0.053	0.054	0.053	0.000	0.005	0.005	0.000	0.001	0.000	0.000	0.000	0.318

Chronic HI																
Height	B1	B2	B3	B4	B5	B6	B7	BLMR_GEN	CUP_GEN1	CUP_GEN2	HELISTOP	LOADING	OPC1_GEN	Ambulance	TRK_IDLI	Sum
0 Feet	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.002	0.000	0.000	0.004

Acute HI																
Height	B1	B2	B3	B4	B5	B6	B7	BLMR_GEN	CUP_GEN1	CUP_GEN2	HELISTOP	LOADING	OPC1_GEN	Ambulance	TRK_IDLI	Sum
0 Feet	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.037	0.000	0.040

Units	Tons/Yr				
	NOx	CO	VOC	PM10	SO2
B-1	0.12	0.72	0.03	0.04	0.00
B-2	0.12	0.72	0.03	0.04	0.00
B-3	0.29	1.79	0.07	0.09	0.01
B-4	0.29	1.79	0.07	0.09	0.01
B-5	0.29	1.79	0.07	0.09	0.01
B-6	0.18	1.07	0.04	0.05	0.00
B-7	0.18	1.07	0.04	0.05	0.00
CUP Gen 1	0.66	0.09	0.01	0.01	0
CUP Gen 2	0.66	0.09	0.01	0.01	0
OPC1 Gen	0.26	0.03	0.00	0.01	0
Helicopter	0.20	0.10	0.02	0.01	0.03
Truck/Service Travel	0.00	0.02	0.00	0.00	0.00
Truck/Service Idle	0.14	0.04	0.00	0.00	0.00
Ambulance Travel	0.00	0.00	0.00	0.00	0.00
Ambulance Idle	0.00	0.00	0.00	0.00	0.00

Units	Toxicity Wt Ems Rate			PM Ems
	Cancer	Acute	Chronic	Lbs/Yr
B-1	7.15E-11	2.70E-07	1.16E-06	73.10
B-2	7.15E-11	2.70E-07	1.16E-06	73.10
B-3	1.79E-10	6.75E-07	2.90E-06	182.76
B-4	1.79E-10	6.75E-07	2.90E-06	182.76
B-5	1.79E-10	6.75E-07	2.90E-06	182.76
B-6	1.07E-10	4.05E-07	1.74E-06	109.65
B-7	1.07E-10	4.05E-07	1.74E-06	109.65
CUP Gen 1				25.67
CUP Gen 2				25.67
OPC1 Gen				10.26
BLMR Gen				2.25
Helicopter	2.30E-09	1.91E-06	5.19E-05	0.02
Truck/Service Travel				1.91
Truck/Service Idle				0.00
Ambulance Travel	1.21E-09	4.32E-06	2.44E-07	0.00
Ambulance Idle				0.00

								NOx	CO	VOC	PM10	SO2	Benzene	Formaldehyde	Toluene	NOx	CO	VOC	PM10	SO2	Benzene	Formaldehyde	Toluene
								2.40E-02	1.46E-01	5.39E-03	7.45E-03	5.88E-04	2.06E-06	7.35E-05	3.33E-06								
Name	Model	Hrs/Yr	Rating	Units	MMBTU/Hr	% Load	MMBTU/Yr	Tons/Year (Toxic in Lbs)								Lbs/hr							
B-1 (existing to be demo)	WG-2000	8760	1,600	MBTU/hr	1.6	70%	9,811	0.12	0.72	0.03	0.04	0.00	0.02	0.72	0.03	0.04	0.23	0.01	0.01	0.00	3.29E-06	1.18E-04	5.33E-06
B-2 (existing to be demo)	WG-2000	8760	1,600	MBTU/hr	1.6	70%	9,811	0.12	0.72	0.03	0.04	0.00	0.02	0.72	0.03	0.04	0.23	0.01	0.01	0.00	3.29E-06	1.18E-04	5.33E-06
B-3 (existing to remain)	M4W-6000	8760	4,000	MBTU/hr	4	70%	24,528	0.29	1.79	0.07	0.09	0.01	0.05	1.80	0.08	0.10	0.58	0.02	0.03	0.00	8.24E-06	2.94E-04	1.33E-05
B-4 (existing to remain)	M4W-6000	8760	4,000	MBTU/hr	4	70%	24,528	0.29	1.79	0.07	0.09	0.01	0.05	1.80	0.08	0.10	0.58	0.02	0.03	0.00	8.24E-06	2.94E-04	1.33E-05
B-5 (existing to remain)	M4W-6000	8760	4,000	MBTU/hr	4	70%	24,528	0.29	1.79	0.07	0.09	0.01	0.05	1.80	0.08	0.10	0.58	0.02	0.03	0.00	8.24E-06	2.94E-04	1.33E-05
B-6 (existing to remain)	AJAX OWG-3000	8760	2,400	MBTU/hr	2.4	70%	14,717	0.18	1.07	0.04	0.05	0.00	0.03	1.08	0.05	0.06	0.35	0.01	0.02	0.00	4.94E-06	1.76E-04	8.00E-06
B-7 (existing to remain)	AJAX OWG-3000	8760	2,400	MBTU/hr	2.4	70%	14,717	0.18	1.07	0.04	0.05	0.00	0.03	1.08	0.05	0.06	0.35	0.01	0.02	0.00	4.94E-06	1.76E-04	8.00E-06

Toxicity Wt Ems Rate		
Cancer	Acute	Chronic
7.15E-11	2.70E-07	1.16E-06
7.15E-11	2.70E-07	1.16E-06
1.79E-10	6.75E-07	2.90E-06
1.79E-10	6.75E-07	2.90E-06
1.79E-10	6.75E-07	2.90E-06
1.07E-10	4.05E-07	1.74E-06
1.07E-10	4.05E-07	1.74E-06

Chemical Component	CAS#	Cancer Risk Factors	Chronic REL	Acute REL
		(ug/m3)-1	(ug/m3)	(ug/m3)
Benzene	71432	0.000029	60	1300
Formaldehy	50000	6.08E-06	9	55
Toluene	108883	0	300	37000

					g/hp-hr	Nox	CO	HC	PM
						9.93	1.29	0.1	0.193
					HP	Hr/yr	Lbs/ Yr		
CUP Gen 1 (existing to remain)	Caterpillar 3512 (Model Yr 2001)	1500kW/1875kVA(2011 BHP)	2011	30	1320.72	171.57	13.30	25.67	
CUP Gen 2 (existing to remain)	Caterpillar 3512 (Model Yr 2001)	1500kW/1875kVA (2011 BHP)	2011	30	1320.72	171.57	13.30	25.67	
OPC1 Gen (existing to remain)	Kohler/Engine: Detroit Diesel C Model 12V92	600kW/750kVA (804 BHP)	804	30	528.02	68.60	5.32	10.26	
BLMR Gen (existing to be removed Ph2)		Detroit Diesel 131kW	176	30	115.59	15.02	1.16	2.25	

EDMS EF (Lbs / Yr / Event) - Bell 222													
Event	CO	VOC	TOG	NOx	SOx	PM-10	PM-2.5	CO2	Formaldehyde	Benzene	Acetaldehyde	1,3-butadiene	Acrolein
Approach	0.287	0.061	0.061	0.139	0.022	0.011	0.011	54.137	0.008	0.001	0.003	0.001	0.002
Climbout	0.072	0.006	0.006	0.412	0.059	0.008	0.008	143.264	0.001	0	0	0	0
Takeoff	0.036	0.003	0.003	0.206	0.029	0.005	0.005	71.585	0	0	0	0	0

2013 Arrive/Depart (Lbs/yr)														Toxicity Wt Ems Rate		
559	CO	VOC	TOG	NOx	SOx	PM-10	PM-2.5	CO2	Formaldehyde	Benzene	Acetaldehyde	1,3-butadiene	Acrolein	Cancer	Acute	Chronic
Approach	160.43	34.10	34.10	77.70	12.30	6.15	6.15	30,262.58	4.47	0.56	1.68	0.56	1.12	2.38E-09	1.87E-06	5.38E-05
Climbout	40.25	3.35	3.35	230.31	32.98	4.47	4.47	80,084.58	0.56	0.00	0.00	0.00	0.00	4.89E-11	1.46E-07	8.93E-07
Takeoff	20.12	1.68	1.68	115.15	16.21	2.80	2.80	40,016.02	0.00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0.00E+00
Total	220.81	39.13	39.13	423.16	61.49	13.42	13.42	150,363.17	5.03	0.56	1.68	0.56	1.12	2.43E-09	2.02E-06	5.47E-05

Phase 1 arrive/depart (Lbs/yr)														Toxicity Wt Ems Rate		
600	CO	VOC	TOG	NOx	SOx	PM-10	PM-2.5	CO2	Formaldehyde	Benzene	Acetaldehyde	1,3-butadiene	Acrolein	Cancer	Acute	Chronic
Approach	172.20	36.60	36.60	83.40	13.20	6.60	6.60	32,482.20	4.80	0.60	1.80	0.60	1.20	2.55E-09	2.01E-06	5.77E-05
Climbout	43.20	3.60	3.60	247.20	35.40	4.80	4.80	85,958.40	0.60	0.00	0.00	0.00	0.00	5.25E-11	1.57E-07	9.59E-07
Takeoff	21.60	1.80	1.80	123.60	17.40	3.00	3.00	42,951.00	0.00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0.00E+00
Total	237.00	42.00	42.00	454.20	66.00	14.40	14.40	161,391.60	5.40	0.60	1.80	0.60	1.20	2.60E-09	2.16E-06	5.87E-05

Phase 2 arrive/depart (Lbs/yr)														Toxicity Wt Ems Rate		
630	CO	VOC	TOG	NOx	SOx	PM-10	PM-2.5	CO2	Formaldehyde	Benzene	Acetaldehyde	1,3-butadiene	Acrolein	Cancer	Acute	Chronic
Approach	180.81	38.43	38.43	87.57	13.86	6.93	6.93	34,106.31	5.04	0.63	1.89	0.63	1.26	2.68E-09	2.11E-06	6.06E-05
Climbout	45.36	3.78	3.78	259.56	37.17	5.04	5.04	90,256.32	0.63	0.00	0.00	0.00	0.00	5.51E-11	1.65E-07	1.01E-06
Takeoff	22.68	1.89	1.89	129.78	18.27	3.15	3.15	45,098.55	0.00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0.00E+00
Total	248.85	44.10	44.10	476.91	69.30	15.12	15.12	169,461.18	5.67	0.63	1.89	0.63	1.26	2.73E-09	2.27E-06	6.16E-05

Evaporavtive Losses

Toxic Emissions by Vehicles Category (Lbs/Day)																										
Chemical Component	CAS#	Cancer Risk Factors (ug/m3)-1	Chronic REL (ug/m3)	Acute REL (ug/m3)	LDA	Running Exhaust										T6	T7	UBUS	MCY	Sum of Emissions		Toxicity Wt Ems Rate				
						LDT1	LDT2	LHD1	LHD2	MDV	MH	OBUS	SBUS	Lbs/Yr	G/sec					Cancer	Acute	Chronic				
Acetaldehyde	75070	0.0000027	140	470	0	0	0	0.000353938	0	0	0	0	0	0	0	0	0.00035394	0.129187	1.86E-06	5.02E-12	1.33E-08	3.95E-09	0.003	0.016		
Acrolein	107028	0.00002	0.35	25	0	0	0	0.000164328	0	0	0	0	0	0	0	0	0.00016433	0.05998	8.63E-07	1.73E-11	2.46E-06	3.45E-08	0.570	0.141		
Benzene	71432	0.000029	60	1300	0	0	0	0.003122235	0	0	0	0	0	0	0	0	0.00312223	1.139616	1.64E-05	4.75E-10	2.73E-07	1.26E-08	0.063	0.052		
1,3-Butadiene	106990	0.00017	20		0	0	0	0.000695234	0	0	0	0	0	0	0	0	0.00069523	0.253761	3.65E-06	6.20E-10	1.82E-07	0.00E+00	0.042	0.000		
Ethylbenzene	100414	0.00000252	2000	0	0	0	0	0.001327266	0	0	0	0	0	0	0	0	0.00132727	0.484452	6.97E-06	1.76E-11	3.48E-09	0.00E+00	0.001	0.000		
Formaldehyde	50000	0.00000608	9	55	0	0	0	0.001997219	0	0	0	0	0	0	0	0	0.00199722	0.728985	1.05E-05	6.38E-11	1.17E-06	1.91E-07	0.270	0.780		
Hexane	110543	0	7000	0	0	0	0	0.0020225	0	0	0	0	0	0	0	0	0.0020225	0.738213	1.06E-05	0.00E+00	1.52E-09	0.00E+00	0.000	0.000		
Methanol	67561	0	4000	28000	0	0	0	0.000151688	0	0	0	0	0	0	0	0	0.00015169	0.055366	7.96E-07	0.00E+00	1.99E-10	2.84E-11	0.000	0.000		
Methyl Ethyl Ketone	78933	0	4000	28000	0	0	0	2.52813E-05	0	0	0	0	0	0	0	0	2.5281E-05	0.009228	1.33E-07	0.00E+00	3.32E-11	4.74E-12	0.000	0.000		
Naphthalene	91203	0.000034	9	0	0	0	0	6.32031E-05	0	0	0	0	0	0	0	0	6.3203E-05	0.023069	3.32E-07	1.13E-11	3.69E-08	0.00E+00	0.009	0.000		
Propylene	115071	0	3000	0	0	0	0	0.003868032	0	0	0	0	0	0	0	0	0.00386803	1.411832	2.03E-05	0.00E+00	6.77E-09	0.00E+00	0.002	0.000		
Styrene	100425	0	900	21000	0	0	0	0.000151688	0	0	0	0	0	0	0	0	0.00015169	0.055366	7.96E-07	0.00E+00	8.85E-10	3.79E-11	0.000	0.000		
Toluene	108883	0	300	37000	0	0	0	0.007281001	0	0	0	0	0	0	0	0	0.007281	2.657565	3.82E-05	0.00E+00	1.27E-07	1.03E-09	0.029	0.004		
Xylenes	1330207	0	700	22000	0	0	0	0.006067501	0	0	0	0	0	0	0	0	0.0060675	2.214638	3.19E-05	0.00E+00	4.55E-08	1.45E-09	0.011	0.006		
Sub Total																			1.21E-09	4.32E-06	2.44E-07					

Mode			
Time per LTO Cycle (minutes)			
Takeoff	Climbout	Approach	
2.17	4.33	6.5	

Emission Indices (g/Kg) per LTO Cycle				
	Carbon Monoxide (CO)	Hydrocarbons (HC)	Oxides of Nitrogen (NOX)	Oxides of Sulfur (SOX)
Approach	47.2		5.2	2.2
Climbout	9.02		0.4	5.96
Takeoff	7.81		0.3	6.6

(Kg/hr) per LTO Cycle					
	Carbon Monoxide (CO)	Hydrocarbons (HC)	Oxides of Nitrogen (NOX)	Oxides of Sulfur (SOX)	PM10
Approach	2.1306	0.2347	0.0993	0.0244	0.27
Climbout	0.2712	0.0120	0.1792	0.0162	0.27
Takeoff	0.1177	0.0045	0.0995	0.0081	0.36

EDMS EF (Lbs / Yr / Event) - Bell 222													
	CO	VOC	TOG	NOx	SOx	PM-10	PM-2.5	CO2	Forma	Benzer	Acetald	1,3-buta	Acrolein
Approach	0.287	0.061	0.061	0.139	0.022	0.011	0.011	54.14	0.008	0.001	0.003	0.001	0.002
Climbout	0.072	0.006	0.006	0.412	0.059	0.008	0.008	143.3	0.001	0	0	0	0
Takeoff	0.036	0.003	0.003	0.206	0.029	0.005	0.005	71.59	0	0	0	0	0
Total													

A/D	2012 arrive/depart (Lbs/yr)				
	530	CO	HC	Nox	Sox
	Approach	269.69	29.71	12.57	3.09
	Climbout	22.87	1.01	15.11	1.37
	Takeoff	4.97	0.19	4.20	0.34
	Total	297.53	30.92	31.89	4.80
					PM10

A/D	2017 arrive/depart (Lbs/yr)				
	567.1	CO	HC	Nox	Sox
	Approach	288.57	31.79	13.45	3.30
	Climbout	24.47	1.09	16.17	1.47
	Takeoff	5.32	0.20	4.50	0.37
	Total	318.36	33.08	34.12	5.13
					PM10

A/D	2023 arrive/depart (Lbs/yr)				
	1,261	CO	HC	Nox	Sox
	Approach	641.66	70.69	29.91	7.34
	Climbout	54.41	2.41	35.95	3.26
	Takeoff	11.83	0.45	10.00	0.82
	Total	707.91	73.56	75.86	11.42
					PM10

Equation F-2

Aircraft Particulate (PM₁₀) Emission Indices Calculation Equation

$$EI_m = PM_m / [(60/1000)(NE_a)(FF_m)(TIM_m)]$$

where:

- EI_m = Emission index of the engine type in g/Kg of fuel burned for the specified mode m
- PM_m = PM₁₀ emissions from one aircraft type for mode m during one LTO cycle
- 60 = Number of seconds per minute
- 1000 = Number of grams per kilogram
- NE_a = Number of engines on aircraft a
- FF_m = Fuel flow rate of the engine type in Kg/sec for the specified mode m
- TIM_m = Time in mode in hours for specified mode m for a single engine

90 kg/hr
0.025 kg.sec

Cancer (In a Million)																					
Height	B10	B11	B12	B3	B4	B5	B6	B7	B8	B9	BLMR_GEN	CUP_GEN1	CUP_GEN2	HELISTOP	LOADING	OPC1_GEN	OPC2_GEN	OPC2_HEL	SLINE1	TRK_IDLI	Sum
0 Feet	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.001	0.00	0.00	0.00	0.10

PM _{2.5}																					
Height	B10	B11	B12	B3	B4	B5	B6	B7	B8	B9	BLMR_GEN	CUP_GEN1	CUP_GEN2	HELISTOP	LOADING	OPC1_GEN	OPC2_GEN	OPC2_HEL	SLINE1	TRK_IDLI	Sum
0 Feet	0.005	0.005	0.005	0.162	0.165	0.169	0.007	0.007	0.068	0.067	0.000	0.009	0.009	0.006	0.000	0.000	0.000	0.001	0.000	0.001	0.69

Chronic HI																					
Height	B10	B11	B12	B3	B4	B5	B6	B7	B8	B9	BLMR_GEN	CUP_GEN1	CUP_GEN2	HELISTOP	LOADING	OPC1_GEN	OPC2_GEN	OPC2_HEL	SLINE1	TRK_IDLI	Sum
0 Feet	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.024	0.023	0.009	0.000	0.001	0.001	0.001	0.000	0.003	0.064

Acute HI																					
Height	B10	B11	B12	B3	B4	B5	B6	B7	B8	B9	BLMR_GEN	CUP_GEN1	CUP_GEN2	HELISTOP	LOADING	OPC1_GEN	OPC2_GEN	OPC2_HEL	SLINE1	TRK_IDLI	Sum
0 Feet	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.131	0.000	0.138

Units	Tons/Yr					MT/Yr
	NOx	CO	VOC	PM10	SO2	CO2e
B-1	0.00	0.00	0.00	0.00	0.00	0.00
B-2	0.00	0.00	0.00	0.00	0.00	0.00
B-10	0.15	0.92	0.03	0.05	0.00	669.47
B-11	0.15	0.92	0.03	0.05	0.00	669.47
B-12	0.15	0.92	0.03	0.05	0.00	669.47
B-3	0.34	2.04	0.08	0.10	0.01	1487.71
B-4	0.34	2.04	0.08	0.10	0.01	1487.71
B-5	0.34	2.04	0.08	0.10	0.01	1487.71
B-6	0.20	1.23	0.05	0.06	0.00	892.63
B-7	0.20	1.23	0.05	0.06	0.00	892.63
B-8	0.34	2.04	0.08	0.10	0.01	1487.71
B-9	0.34	2.04	0.08	0.10	0.01	1487.71
BLMR Gen	0.00	0.00	0.00	0.00	0.00	0.00
CUP Gen 1	0.66	0.09	0.01	0.01	0.00	11.32
CUP Gen 2	0.66	0.09	0.01	0.01	0.00	11.32
Helicopter	0.48	0.25	0.04	0.02	0.07	153.37
Truck/Service Travel	0.00	0.02	0.00	0.00	0.00	1.66
OPC1 Gen	0.26	0.03	0.00	0.01	0.00	4.53
OPC2 Gen	0.26	0.03	0.00	0.01	0.00	4.53
Ambulance Travel	0.00	0.00	0.00	0.00	0.00	0.18
Truck/Service Idle	0.14	0.04	0.00	0.00	0.00	11.23
Ambulance Idle	0.00	0.00	0.00	0.00	0.00	0.00

Filter Control 60%
 40%

Units	Toxicity Wt Ems Rate			PM Ems
	Cancer	Acute	Chronic	Lbs/Yr
B-1	0.00E+00	0.00E+00	0.00E+00	0.00
B-2	0.00E+00	0.00E+00	0.00E+00	0.00
B-10	9.19E-11	3.04E-07	1.49E-06	93.99
B-11	9.19E-11	3.04E-07	1.49E-06	93.99
B-12	9.19E-11	3.04E-07	1.49E-06	93.99
B-3	2.04E-10	6.75E-07	3.31E-06	208.87
B-4	2.04E-10	6.75E-07	3.31E-06	208.87
B-5	2.04E-10	6.75E-07	3.31E-06	208.87
B-6	1.23E-10	4.05E-07	1.99E-06	125.32
B-7	1.23E-10	4.05E-07	1.99E-06	125.32
B-8	2.04E-10	6.75E-07	3.31E-06	208.87
B-9	2.04E-10	6.75E-07	3.31E-06	208.87
BLMR Gen				0.00
CUP Gen 1				25.67
CUP Gen 2				25.67
Helicopter	5.46E-09	4.53E-06	1.23E-04	30.17
Truck/Service Travel				0.02
OPC1 Gen				10.26
OPC2 Gen				10.26
Ambulance Travel	1.21E-09	4.32E-06	2.44E-07	0.00
Truck/Service Idle				1.91
Ambulance Idle				0.00

								NOx	CO	VOC	PM10	SO2	Benzene	Formaldehyde	Toluene	NOx	CO	VOC	PM10	SO2	Benzene	Formaldehyde	Toluene	Toxicity Wt Ems Rate			
								2.40E-02	1.46E-01	5.39E-03	7.45E-03	5.88E-04	2.06E-06	7.35E-05	3.33E-06									Cancer	Acute	Chronic	
Name	Model	Hrs/Yr	Rating	Units	MMBTU/hr	% Load	MMBTU/Yr	Tons/Year (Toxic in Lbs)								Lbs/hr											
B-1 (existing to be demo)	WG-2000	0	1,600	MBTU/hr	0	80%	0	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	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
B-2 (existing to be demo)	WG-2000	0	1,600	MBTU/hr	0	80%	0	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	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
B-3 (existing to remain)	M4W-6000	8760	4,000	MBTU/hr	4	80%	28,032	0.34	2.04	0.08	0.10	0.01	0.06	2.06	0.09	0.10	0.58	0.02	0.03	0.00	8.24E-06	2.94E-04	1.33E-05	2.04E-10	6.75E-07	3.31E-06	
B-4 (existing to remain)	M4W-6000	8760	4,000	MBTU/hr	4	80%	28,032	0.34	2.04	0.08	0.10	0.01	0.06	2.06	0.09	0.10	0.58	0.02	0.03	0.00	8.24E-06	2.94E-04	1.33E-05	2.04E-10	6.75E-07	3.31E-06	
B-5 (existing to remain)	M4W-6000	8760	4,000	MBTU/hr	4	80%	28,032	0.34	2.04	0.08	0.10	0.01	0.06	2.06	0.09	0.10	0.58	0.02	0.03	0.00	8.24E-06	2.94E-04	1.33E-05	2.04E-10	6.75E-07	3.31E-06	
B-6 (existing to remain)	AJAX OWG-3000	8760	2,400	MBTU/hr	2.4	80%	16,819	0.20	1.23	0.05	0.06	0.00	0.03	1.24	0.06	0.06	0.35	0.01	0.02	0.00	4.94E-06	1.76E-04	8.00E-06	1.23E-10	4.05E-07	1.99E-06	EPA
B-7 (existing to remain)	AJAX OWG-3000	8760	2,400	MBTU/hr	2.4	80%	16,819	0.20	1.23	0.05	0.06	0.00	0.03	1.24	0.06	0.06	0.35	0.01	0.02	0.00	4.94E-06	1.76E-04	8.00E-06	1.23E-10	4.05E-07	1.99E-06	GHG EF
B-8 (new condensing boiler)	CleaverBrooks	8760	4,000	MBTU/hr	4	80%	28,032	0.34	2.04	0.08	0.10	0.01	0.06	2.06	0.09	0.10	0.58	0.02	0.03	0.00	8.24E-06	2.94E-04	1.33E-05	2.04E-10	6.75E-07	3.31E-06	
B-9 (new condensing boiler)	CleaverBrooks	8760	4,000	MBTU/hr	4	80%	28,032	0.34	2.04	0.08	0.10	0.01	0.06	2.06	0.09	0.10	0.58	0.02	0.03	0.00	8.24E-06	2.94E-04	1.33E-05	2.04E-10	6.75E-07	3.31E-06	
B-10 (new condensing boiler)	CleaverBrooks	8760	1,800	MBTU/hr	1.8	80%	12,614	0.15	0.92	0.03	0.05	0.00	0.03	0.93	0.04	0.04	0.26	0.01	0.01	0.00	3.71E-06	1.32E-04	6.00E-06	9.19E-11	3.04E-07	1.49E-06	
B-11 (new condensing boiler)	CleaverBrooks	8760	1,800	MBTU/hr	1.8	80%	12,614	0.15	0.92	0.03	0.05	0.00	0.03	0.93	0.04	0.04	0.26	0.01	0.01	0.00	3.71E-06	1.32E-04	6.00E-06	9.19E-11	3.04E-07	1.49E-06	
B-12 (new condensing boiler)	CleaverBrooks	8760	1,800	MBTU/hr	1.8	80%	12,614	0.15	0.92	0.03	0.05	0.00	0.03	0.93	0.04	0.04	0.26	0.01	0.01	0.00	3.71E-06	1.32E-04	6.00E-06	9.19E-11	3.04E-07	1.49E-06	

Toxicity Wt Ems Rate

Cancer Acute Chronic

EPA
GHG EF

			HP	Gal/hr	EF Hr/yr	9.93	1.29	0.1	0.193	EPA GHG EF
			Lbs/ Yr							
CUP Gen 1 (existing to remain)	Caterpillar 3512 (Model Yr 2001)	1500kW/1875kVA(2011 BHP)	2011	36.85	30	1320.72	171.57	13.30	25.67	
CUP Gen 2 (existing to remain)	Caterpillar 3512 (Model Yr 2001)	1500kW/1875kVA (2011 BHP)	2011	36.85	30	1320.72	171.57	13.30	25.67	
OPC1 Gen (existing to remain)	Kohler/Engine: Detroit Diesel C Model 12V92	600kW/750kVA (804 BHP)	804	14.73	30	528.02	68.60	5.32	10.26	
BLMR Gen (existing to be removed Ph2)		Detroit Diesel 131kW	176	3.22	30	115.59	15.02	1.16	2.25	
OPC2 Gen (new generator)		600kW/750kVA proposed	804	14.73	30	528.02	68.60	5.32	10.26	

EDMS EF (Lbs / Yr / Event) - Bell 222													
Event	CO	VOC	TOG	NOx	SOx	PM-10	PM-2.5	CO2	Formaldehyde	Benzene	Acetaldehyde	1,3-butadiene	Acrolein
Approach	0.287	0.061	0.061	0.139	0.022	0.011	0.011	54.137	0.008	0.001	0.003	0.001	0.002
Climbout	0.072	0.006	0.006	0.412	0.059	0.008	0.008	143.264	0.001	0	0	0	0
Takeoff	0.036	0.003	0.003	0.206	0.029	0.005	0.005	71.585	0	0	0	0	0

2013 Arrive/Depart (Lbs/yr)														Toxicity Wt Ems Rate		
559	CO	VOC	TOG	NOx	SOx	PM-10	PM-2.5	CO2	Formaldehyde	Benzene	Acetaldehyde	1,3-butadiene	Acrolein	Cancer	Acute	Chronic
Approach	160.43	34.10	34.10	77.70	12.30	6.15	6.15	30,262.58	4.47	0.56	1.68	0.56	1.12	2.38E-09	1.87E-06	5.38E-05
Climbout	40.25	3.35	3.35	230.31	32.98	4.47	4.47	80,084.58	0.56	0.00	0.00	0.00	0.00	4.89E-11	1.46E-07	8.93E-07
Takeoff	20.12	1.68	1.68	115.15	16.21	2.80	2.80	40,016.02	0.00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0.00E+00
Total	220.81	39.13	39.13	423.16	61.49	13.42	13.42	150,363.17	5.03	0.56	1.68	0.56	1.12	2.43E-09	2.02E-06	5.47E-05

Phase 1 arrive/depart (Lbs/yr)														Toxicity Wt Ems Rate		
600	CO	VOC	TOG	NOx	SOx	PM-10	PM-2.5	CO2	Formaldehyde	Benzene	Acetaldehyde	1,3-butadiene	Acrolein	Cancer	Acute	Chronic
Approach	172.20	36.60	36.60	83.40	13.20	6.60	6.60	32,482.20	4.80	0.60	1.80	0.60	1.20	2.55E-09	2.01E-06	5.77E-05
Climbout	43.20	3.60	3.60	247.20	35.40	4.80	4.80	85,958.40	0.60	0.00	0.00	0.00	0.00	5.25E-11	1.57E-07	9.59E-07
Takeoff	21.60	1.80	1.80	123.60	17.40	3.00	3.00	42,951.00	0.00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0.00E+00
Total	237.00	42.00	42.00	454.20	66.00	14.40	14.40	161,391.60	5.40	0.60	1.80	0.60	1.20	2.60E-09	2.16E-06	5.87E-05

Phase 2 arrive/depart (Lbs/yr)														Toxicity Wt Ems Rate		
630	CO	VOC	TOG	NOx	SOx	PM-10	PM-2.5	CO2	Formaldehyde	Benzene	Acetaldehyde	1,3-butadiene	Acrolein	Cancer	Acute	Chronic
Approach	180.81	38.43	38.43	87.57	13.86	6.93	6.93	34,106.31	5.04	0.63	1.89	0.63	1.26	2.68E-09	2.11E-06	6.06E-05
Climbout	45.36	3.78	3.78	259.56	37.17	5.04	5.04	90,256.32	0.63	0.00	0.00	0.00	0.00	5.51E-11	1.65E-07	1.01E-06
Takeoff	22.68	1.89	1.89	129.78	18.27	3.15	3.15	45,098.55	0.00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0.00E+00
Total	248.85	44.10	44.10	476.91	69.30	15.12	15.12	169,461.18	5.67	0.63	1.89	0.63	1.26	2.73E-09	2.27E-06	6.16E-05

Evaporative Losses

Chemical Component	CAS#	Cancer Risk Factors (ug/m3)-1	Chronic REL (ug/m3)	Acute REL (ug/m3)
Acetaldehyde	75070	0.0000027	140	470
Acrolein	107028	0.00002	0.35	25
Benzene	71432	0.000029	60	1300
1,3-Butadiene	106990	0.00017	20	
Ethylbenzene	100414	0.00000252	2000	0
Formaldehyde	50000	0.00000608	9	55
Hexane	110543	0	7000	0
Methanol	67561	0	4000	28000
Methyl Ethyl Ketone	78933	0	4000	28000
Naphthalene	91203	0.000034	9	0
Propylene	115071	0	3000	0
Styrene	100425	0	900	21000
Toluene	108883	0	300	37000
Xylenes	1330207	0	700	22000

Toxic Emissions by Vehicles Category (Lbs/Day)

Running Exhaust

LDA	LDT1	LDT2	LHD1	LHD2	MDV	MH
0	0	0	0	0.000353938	0	0
0	0	0	0	0.000164328	0	0
0	0	0	0	0.003122235	0	0
0	0	0	0	0.000695234	0	0
0	0	0	0	0.001327266	0	0
0	0	0	0	0.001997219	0	0
0	0	0	0	0.0020225	0	0
0	0	0	0	0.000151688	0	0
0	0	0	0	2.52813E-05	0	0
0	0	0	0	6.32031E-05	0	0
0	0	0	0	0.003868032	0	0
0	0	0	0	0.000151688	0	0
0	0	0	0	0.007281001	0	0
0	0	0	0	0.006067501	0	0

Toxicity Wt Ems Rate

Cancer	Acute	Chronic		
5.02E-12	1.33E-08	3.95E-09	0.003	0.016
1.73E-11	2.46E-06	3.45E-08	0.570	0.141
4.75E-10	2.73E-07	1.26E-08	0.063	0.052
6.20E-10	1.82E-07	0.00E+00	0.042	0.000
1.76E-11	3.48E-09	0.00E+00	0.001	0.000
6.38E-11	1.17E-06	1.91E-07	0.270	0.780
0.00E+00	1.52E-09	0.00E+00	0.000	0.000
0.00E+00	1.99E-10	2.84E-11	0.000	0.000
0.00E+00	3.32E-11	4.74E-12	0.000	0.000
1.13E-11	3.69E-08	0.00E+00	0.009	0.000
0.00E+00	6.77E-09	0.00E+00	0.002	0.000
0.00E+00	8.85E-10	3.79E-11	0.000	0.000
0.00E+00	1.27E-07	1.03E-09	0.029	0.004
0.00E+00	4.55E-08	1.45E-09	0.011	0.006
1.21E-09	4.32E-06	2.44E-07		

Cancer (In a Million)																					
Height	B10	B11	B12	B3	B4	B5	B6	B7	B8	B9	BLMR_GEN	CUP_GEN1	CUP_GEN2	HELISTOP	LOADING	OPC1_GEN	OPC2_GEN	OPC2_HEL	SLINE1	TRK_IDLI	Sum
0 Feet	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.29	0.00	0.00	1.81	0.12	0.00	0.00	0.09	2.59

PM _{2.5}																					
Height	B10	B11	B12	B3	B4	B5	B6	B7	B8	B9	BLMR_GEN	CUP_GEN1	CUP_GEN2	HELISTOP	LOADING	OPC1_GEN	OPC2_GEN	OPC2_HEL	SLINE1	TRK_IDLI	Sum
0 Feet	0.005	0.005	0.006	0.031	0.031	0.032	0.008	0.010	0.032	0.032	0.000	0.002	0.002	0.003	0.000	0.001	0.000	0.001	0.000	0.000	0.201

Chronic HI																					
Height	B10	B11	B12	B3	B4	B5	B6	B7	B8	B9	BLMR_GEN	CUP_GEN1	CUP_GEN2	HELISTOP	LOADING	OPC1_GEN	OPC2_GEN	OPC2_HEL	SLINE1	TRK_IDLI	Sum
0 Feet	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.001	0.000	0.000	0.003

Acute HI																					
Height	B10	B11	B12	B3	B4	B5	B6	B7	B8	B9	BLMR_GEN	CUP_GEN1	CUP_GEN2	HELISTOP	LOADING	OPC1_GEN	OPC2_GEN	OPC2_HEL	SLINE1	TRK_IDLI	Sum
0 Feet	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.037	0.000	0.041

Units	Tons/Yr					MT/Yr
	NOx	CO	VOC	PM10	SO2	CO2e
B-1	0.00	0.00	0.00	0.00	0.00	0.00
B-2	0.00	0.00	0.00	0.00	0.00	0.00
B-10	0.15	0.92	0.03	0.05	0.00	669.47
B-11	0.15	0.92	0.03	0.05	0.00	669.47
B-12	0.15	0.92	0.03	0.05	0.00	669.47
B-3	0.34	2.04	0.08	0.08	0.01	1487.71
B-4	0.34	2.04	0.08	0.08	0.01	1487.71
B-5	0.34	2.04	0.08	0.08	0.01	1487.71
B-6	0.20	1.23	0.05	0.06	0.00	892.63
B-7	0.20	1.23	0.05	0.06	0.00	892.63
B-8	0.34	2.04	0.08	0.10	0.01	1487.71
B-9	0.34	2.04	0.08	0.10	0.01	1487.71
BLMR Gen	0.00	0.00	0.00	0.00	0.00	0.00
CUP Gen 1	0.66	0.09	0.01	0.01	0.00	11.32
CUP Gen 2	0.66	0.09	0.01	0.01	0.00	11.32
Helicopter	0.48	0.25	0.04	0.02	0.07	153.37
Truck/Service Travel	0.00	0.02	0.00	0.00	0.00	1.66
OPC1 Gen	0.26	0.03	0.00	0.00	0.00	4.53
OPC2 Gen	0.26	0.03	0.00	0.00	0.00	4.53
Ambulance Travel	0.00	0.00	0.00	0.00	0.00	0.18
Truck/Service Idle	0.14	0.04	0.00	0.00	0.00	11.23
Ambulance Idle	0.00	0.00	0.00	0.00	0.00	0.00

Filter Control 0%
 100%

Units	Toxicity Wt Ems Rate			PM Ems
	Cancer	Acute	Chronic	Lbs/Yr
B-1	0.00E+00	0.00E+00	0.00E+00	0.00
B-2	0.00E+00	0.00E+00	0.00E+00	0.00
B-10	9.19E-11	3.04E-07	1.49E-06	93.99
B-11	9.19E-11	3.04E-07	1.49E-06	93.99
B-12	9.19E-11	3.04E-07	1.49E-06	93.99
B-3	1.53E-10	6.75E-07	2.48E-06	156.65
B-4	1.53E-10	6.75E-07	2.48E-06	156.65
B-5	1.53E-10	6.75E-07	2.48E-06	156.65
B-6	1.23E-10	4.05E-07	1.99E-06	125.32
B-7	1.23E-10	4.05E-07	1.99E-06	125.32
B-8	2.04E-10	6.75E-07	3.31E-06	208.87
B-9	2.04E-10	6.75E-07	3.31E-06	208.87
BLMR Gen				0.00
CUP Gen 1				17.20
CUP Gen 2				17.20
Helicopter	5.46E-09	4.53E-06	1.23E-04	30.17
Truck/Service Travel				0.02
OPC1 Gen				6.91
OPC2 Gen				6.91
Ambulance Travel	1.21E-09	4.32E-06	2.44E-07	0.00
Truck/Service Idle				1.91
Ambulance Idle				0.00

										Tons/Year (Toxic in lbs)								Lbs/hr																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
										NOx	CO	VOC	PM10	SO2	Benzene	Formaldehyde	Toluene	NOx	CO	VOC	PM10	SO2	Benzene	Formaldehyde	Toluene																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
										2.40E-02	1.46E-01	5.39E-03	7.45E-03	5.88E-04	2.06E-06	7.35E-05	3.33E-06	2.40E-02	1.46E-01	5.39E-03	7.45E-03	5.88E-04	2.06E-06	7.35E-05	3.33E-06																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Name	Model	Hrs/Yr	Rating	Units	MMBTU/Hr	% Load	MMBTU/Yr																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
B-1 (existing to be demo)	WG-2000	0	1,600	MBTU/hr	0	70%	0	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.00	0.00	0.00	0.00	0.00

										kg CO2 per gallon	g CH4 per gallon	g N2O per gallon	CO2e	
										10.21	0.41	0.08		
										MT / Year				
										Lbs/ Yr				
										Hr/yr				
										Gal/hr				
										HP				
										g/hp-hr				
										EF				
										Nox				
										CO				
										HC				
										PM10				
										10.21				
										0.41				
										0.08				
CUP Gen 1 (existing to remain)	Caterpillar 3512 (Model Yr 2001)	1500kW/1875kVA(2011 BHP)	2000	36.64	30	1313.49	170.63	13.23	17.20	EPA GHG EF	11.22	0.00	0.00	11.26
CUP Gen 2 (existing to remain)	Caterpillar 3512 (Model Yr 2001)	1500kW/1875kVA (2011 BHP)	2000	36.64	30	1313.49	170.63	13.23	17.20		11.22	0.00	0.00	11.26
OPC1 Gen (existing to remain)	Kohler/Engine: Detroit Diesel C Model 12V92	600kW/750kVA (804 BHP)	804	14.73	30	528.02	68.60	5.32	6.91		4.51	0.00	0.00	4.53
BLMR Gen (existing to be removed Ph2)		Detroit Diesel 131kW	176	3.22	30	115.59	15.02	1.16	1.51		0.99	0.00	0.00	0.99
OPC2 Gen (new generator)		600kW/750kVA proposed	804	14.73	30	528.02	68.60	5.32	6.91		4.51	0.00	0.00	4.53

EDMS EF (Lbs / Yr / Event) - Bell 222													
Event	CO	VOC	TOG	NOx	SOx	PM-10	PM-2.5	CO2	Formaldehyde	Benzene	Acetaldehyde	1,3-butadiene	Acrolein
Approach	0.287	0.061	0.061	0.139	0.022	0.011	0.011	54.137	0.008	0.001	0.003	0.001	0.002
Climbout	0.072	0.006	0.006	0.412	0.059	0.008	0.008	143.264	0.001	0	0	0	0
Takeoff	0.036	0.003	0.003	0.206	0.029	0.005	0.005	71.585	0	0	0	0	0

2012 Arrive/Depart (Lbs/yr)														Toxicity Wt Ems Rate		
530	CO	VOC	TOG	NOx	SOx	PM-10	PM-2.5	CO2	Formaldehyde	Benzene	Acetaldehyde	1,3-butadiene	Acrolein	Cancer	Acute	Chronic
Approach	152.11	32.33	32.33	73.67	11.66	5.83	5.83	28,692.61	4.24	0.53	1.59	0.53	1.06	2.25E-09	1.77E-06	5.10E-05
Climbout	38.16	3.18	3.18	218.36	31.27	4.24	4.24	75,929.92	0.53	0.00	0.00	0.00	0.00	4.63E-11	1.39E-07	8.47E-07
Takeoff	19.08	1.59	1.59	109.18	15.37	2.65	2.65	37,940.05	0.00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0.00E+00
Total	209.35	37.10	37.10	401.21	58.30	12.72	12.72	142,562.58	4.77	0.53	1.59	0.53	1.06	2.30E-09	1.91E-06	5.19E-05

2017 arrive/depart (Lbs/yr)														Toxicity Wt Ems Rate		
911	CO	VOC	TOG	NOx	SOx	PM-10	PM-2.5	CO2	Formaldehyde	Benzene	Acetaldehyde	1,3-butadiene	Acrolein	Cancer	Acute	Chronic
Approach	261.46	55.57	55.57	126.63	20.04	10.02	10.02	49,318.81	7.29	0.91	2.73	0.91	1.82	3.88E-09	3.05E-06	8.77E-05
Climbout	65.59	5.47	5.47	375.33	53.75	7.29	7.29	130,513.50	0.91	0.00	0.00	0.00	0.00	7.97E-11	2.38E-07	1.46E-06
Takeoff	32.80	2.73	2.73	187.67	26.42	4.56	4.56	65,213.94	0.00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0.00E+00
Total	359.85	63.77	63.77	689.63	100.21	21.86	21.86	245,046.25	8.20	0.91	2.73	0.91	1.82	3.95E-09	3.29E-06	8.91E-05

2023 arrive/depart (Lbs/yr)														Toxicity Wt Ems Rate		
1,257	CO	VOC	TOG	NOx	SOx	PM-10	PM-2.5	CO2	Formaldehyde	Benzene	Acetaldehyde	1,3-butadiene	Acrolein	Cancer	Acute	Chronic
Approach	360.76	76.68	76.68	174.72	27.65	13.83	13.83	68,050.21	10.06	1.26	3.77	1.26	2.51	5.35E-09	4.21E-06	1.21E-04
Climbout	90.50	7.54	7.54	517.88	74.16	10.06	10.06	180,082.85	1.26	0.00	0.00	0.00	0.00	1.10E-10	3.29E-07	2.01E-06
Takeoff	45.25	3.77	3.77	258.94	36.45	6.29	6.29	89,982.35	0.00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0.00E+00
Total	496.52	87.99	87.99	951.55	138.27	30.17	30.17	338,115.40	11.31	1.26	3.77	1.26	2.51	5.46E-09	4.53E-06	1.23E-04

Evaporative Losses

Chemical Component	CAS#	Cancer Risk Factors (ug/m3)-1	Chronic REL (ug/m3)	Acute REL (ug/m3)
Acetaldehyde	75070	0.0000027	140	470
Acrolein	107028	0.00002	0.35	25
Benzene	71432	0.000029	60	1300
1,3-Butadiene	106990	0.00017	20	
Ethylbenzene	100414	0.00000252	2000	0
Formaldehyde	50000	0.00000608	9	55
Hexane	110543	0	7000	0
Methanol	67561	0	4000	28000
Methyl Ethyl Ketone	78933	0	4000	28000
Naphthalene	91203	0.000034	9	0
Propylene	115071	0	3000	0
Styrene	100425	0	900	21000
Toluene	108883	0	300	37000
Xylenes	1330207	0	700	22000

Toxic Emissions by Vehicles Category (Lbs/Day)

Running Exhaust

LDA	LDT1	LDT2	LHD1	LHD2	MDV	MH
0	0	0	0	0.000353938	0	0
0	0	0	0	0.000164328	0	0
0	0	0	0	0.003122235	0	0
0	0	0	0	0.000695234	0	0
0	0	0	0	0.001327266	0	0
0	0	0	0	0.001997219	0	0
0	0	0	0	0.0020225	0	0
0	0	0	0	0.000151688	0	0
0	0	0	0	2.52813E-05	0	0
0	0	0	0	6.32031E-05	0	0
0	0	0	0	0.003868032	0	0
0	0	0	0	0.000151688	0	0
0	0	0	0	0.007281001	0	0
0	0	0	0	0.006067501	0	0

Toxicity Wt Ems Rate

Cancer	Acute	Chronic		
5.02E-12	1.33E-08	3.95E-09	0.003	0.016
1.73E-11	2.46E-06	3.45E-08	0.570	0.141
4.75E-10	2.73E-07	1.26E-08	0.063	0.052
6.20E-10	1.82E-07	0.00E+00	0.042	0.000
1.76E-11	3.48E-09	0.00E+00	0.001	0.000
6.38E-11	1.17E-06	1.91E-07	0.270	0.780
0.00E+00	1.52E-09	0.00E+00	0.000	0.000
0.00E+00	1.99E-10	2.84E-11	0.000	0.000
0.00E+00	3.32E-11	4.74E-12	0.000	0.000
1.13E-11	3.69E-08	0.00E+00	0.009	0.000
0.00E+00	6.77E-09	0.00E+00	0.002	0.000
0.00E+00	8.85E-10	3.79E-11	0.000	0.000
0.00E+00	1.27E-07	1.03E-09	0.029	0.004
0.00E+00	4.55E-08	1.45E-09	0.011	0.006
1.21E-09	4.32E-06	2.44E-07		

ID	Phase Type (Select a drop down list item in Column B; if "Other", please specify in Column C)	Phase Start Date	Phase End Date	Operating Hours Per Day ¹	Work Days Per Week	Equipment Type (Select a drop down list item in Column H; if "Other" please specify in Column I)	Number of Equipment	Horsepower (if known)	Load Factor (if known)	Engine Mfg Year	Engine Tier Rating (Tier 2, Tier 4) ⁴	Diesel Particulate Filter (Level) ⁵	Engine Hours	Days (Calculated)	2020	2021	2022	2023
1	Demolition	02/01/20	10/01/21	7	5	Concrete/Industrial Saws	1	81	0.73	2014			444	444	243	201	0	0
2	Demolition	02/01/20	10/01/21	7	5	Excavators	3	162	0.38	2014			444	444	243	201	0	0
3	Demolition	02/01/20	10/01/21	7	5	Rubber Tired Dozers	2	255	0.4	2014			444	444	243	201	0	0
4	Grading	04/01/20	01/01/22	7	5	Excavators	1	162	0.38	2014			467	467	201	266	0	0
5	Grading	04/01/20	01/01/22	7	5	Graders	1	174	0.41	2014			467	467	201	266	0	0
6	Grading	04/01/20	01/01/22	7	5	Rubber Tired Dozers	1	255	0.4	2014			467	467	201	266	0	0
7	Grading	04/01/20	01/01/22	7	5	Tractors/Loaders/Backhoes	3	97	0.37	2014			467	467	201	266	0	0
8	Building Construction	06/01/20	12/01/23	7	5	Cranes	1	226	0.29	2014			929	929	158	266	260	245
9	Building Construction	06/01/20	12/01/23	7	5	Forklifts	3	89	0.2	2014			929	929	158	266	260	245
10	Building Construction	06/01/20	12/01/23	5	5	Generator Sets	1	84	0.74	2014			929	929	158	266	260	245
11	Building Construction	06/01/20	12/01/23	7	5	Tractors/Loaders/Backhoes	3	97	0.37	2014			929	929	158	266	260	245
12	Building Construction	06/01/20	12/01/23	5	5	Welders	1	46	0.45	2014			929	929	158	266	260	245
13	Paving	03/01/21	10/01/23	7	5	Pavers	2	125	0.42	2014			680	680	0	225	260	195
14	Paving	03/01/21	10/01/23	7	5	Paving Equipment	2	130	0.36	2014			680	680	0	225	260	195
15	Paving	03/01/21	10/01/23	7	5	Rollers	2	80	0.38	2014			680	680	0	225	260	195

Fuel	Veh	MdYr	VMT_Frac	Est_Pop	VMT	PM10_RUNEX	PM2_5_RUNEX	TOG_RUNEX	TOG_RUNLS	NOX_RUNEX	CO_RUNEX	SOX_RUNEX	ROG_RUNEX	CO2_RUNEX	CO2_Pavely_RUNEX
DSL	LDA	AllMYr	1	3163.398	110050.6	0.015123366	0.013913497	0.024828314	0	0.41856353	0.139310087	0.0033927	0.021809191	355.3823017	252.1645185
DSL	LDT1	AllMYr	1	102.5743	3839.615	0.031450583	0.028934536	0.045236012	0	0.47451614	0.196881987	0.00342824	0.039735313	359.1055198	248.5764993
DSL	LDT2	AllMYr	1	91.03937	3531.986	0.01815761	0.016705002	0.030013819	0	0.472645472	0.150716532	0.00339951	0.02636414	356.0954192	265.2020833
DSL	LHDT1	AllMYr	1	9229.094	373138	0.043005133	0.039564723	0.218128542	0	2.973264643	1.091254914	0.00498722	0.191604116	522.4070112	470.16631
DSL	LHDT2	AllMYr	1	2653.658	105386	0.040846694	0.037578959	0.198263026	0	2.730266292	1.037139085	0.00498886	0.174154248	522.578845	470.3209605
GAS	LDA	AllMYr	1	635806.6	23324722	0.001776116	0.00164678	0.024993274	0.039693502	0.078158223	0.75153424	0.00341328	0.015226553	340.6986481	235.7643291
GAS	LDT1	AllMYr	1	72354.36	2680166	0.003284445	0.003045535	0.06380424	0.14286435	0.216441673	1.913859993	0.00395948	0.043312685	393.4782313	288.9656097
GAS	LDT2	AllMYr	1	182922.2	7190390	0.001738538	0.001612364	0.032866802	0.07005983	0.127783626	1.025962498	0.00464576	0.01964298	463.7171792	352.0911473
GAS	LHDT1	AllMYr	1	23509.95	948348.7	0.00207358	0.001921801	0.154681735	0.221616884	0.346672413	1.770249589	0.00973576	0.129121537	972.114605	874.9031445
GAS	LHDT2	AllMYr	1	2266.092	91558.94	0.001616128	0.001498075	0.097883241	0.221574778	0.288191609	1.152060793	0.00972437	0.077273732	972.1146071	874.9031463
GAS	MCY	AllMYr	1	27771.19	245286	0.000372186	0.000311109	2.968204713	0.302278962	1.237460698	25.63305954	0.00213538	2.713774817	164.7891609	148.3102448
						0.014494944	0.013339307	0.350809429	0.090735301	0.851269484	3.169275387	0.00489187	0.313819937	492.9528662	407.3970903
						0.014494944	0.013339307	0.350809429	0.090735301	0.851269484	3.169275387	0.00489187	0.313819937	492.9528662	407.3970903

Project Summary By Year

Year	ROG Tons/Yr	CO Tons/Yr	NOx Tons/Yr	*PM10 Tons/Yr	CO2 MT/Yr	CH4 MT/Yr	CO2e MT/Yr
2020	0.69	5.62	6.27	0.23	886.42	0.09	888.35
2021	0.82	8.13	7.99	0.26	1,255.15	0.14	1,257.99
2022	0.30	3.76	2.90	0.10	563.89	0.07	565.28
2023	0.27	3.19	2.50	0.09	479.76	0.06	480.94
Totals	2.08	20.70	19.66	0.69	3,185	0	3,193

Maximum Daily Emissions

ROG Lbs/Day	CO Lbs/Day	NOx Lbs/Day	*PM10 Lbs/Day	CO2 MT/Day	CH4 MT/Day	CO2e MT/Day
3.16	21.95	28.50	1.12	1.78	0.00	1.79
1, 2, 3,						

Year	ROG Tons/Yr	CO Tons/Yr	NOx Tons/Yr	PM10 Tons/Yr	CO2 MT/Yr	CH4 MT/Yr	CO2e MT/Yr
2020							
Const. Equip	0.69	5.62	6.27	0.232	886.42	0.09	888.35
Const. Mobil Offsite	0.040	0.395	0.118	0.002	59.606	0.000	0.000
Const. Mobil Onsite	0.000	0.001	0.002	0.00001	0.525	0.000	0.000
Const. Mobil Idling	0.000	0.001	0.002	0.000004	0.231	0.000	0.000
Total	0.73	6.02	6.39	0.23	946.79	0.09	888.35
Year	ROG Lb/Day	CO Lb/Day	NOx Lb/Day	PM10 Lb/Day	CO2 MT/Day	CH4 MT/Day	CO2e MT/Day
2020							
Const. Equip	3.82	31.24	34.83	1.29	2.46	0.00	2.47
Const. Mobil Offsite	0.22	2.20	0.66	0.01	0.17	0.00	0.00
Const. Mobil Onsite	0.00	0.00	0.01	0.00	0.00	0.00	0.00
Const. Mobil Idling	0.00	0.01	0.01	0.00	0.35	0.00	0.00
Total	4.05	33.45	35.51	1.30	2.97	0.00	2.47

Year	ROG Tons/Yr	CO Tons/Yr	NOx Tons/Yr	PM10 Tons/Yr	CO2 MT/Yr	CH4 MT/Yr	CO2e MT/Yr
2021							
Const. Equip	0.82	8.13	7.99	0.26	1,255.15	0.14	1,257.99
Const. Mobil Offsite	0.063	0.626	0.178	0.003	91.617	0.000	0.000
Const. Mobil Onsite	0.000	0.001	0.001	0.0000	0.511	0.000	0.000
Const. Mobil Idling	0.000	0.002	0.002	0.0000065	0.345	0.000	0.000
Total	0.89	8.76	8.17	0.27	1,347.62	0.14	1,257.99
Year	ROG Lb/Day	CO Lb/Day	NOx Lb/Day	PM10 Lb/Day	CO2 MT/Day	CH4 MT/Day	CO2e MT/Day
2021							
Const. Equip	4.58	45.16	44.38	1.47	3.49	0.00	3.49
Const. Mobil Offsite	0.35	3.48	0.99	0.02	0.25	0.00	0.00
Const. Mobil Onsite	0.00	0.00	0.01	0.00	0.00	0.00	0.00
Const. Mobil Idling	0.00	0.01	0.01	0.00	0.00	0.00	0.00
Total	4.94	48.65	45.39	1.49	3.74	0.00	3.49

Year	ROG Tons/Yr	CO Tons/Yr	NOx Tons/Yr	PM10 Tons/Yr	CO2 MT/Yr	CH4 MT/Yr	CO2e MT/Yr
2022							
Const. Equip	0.30	3.76	2.90	0.10	563.89	0.07	565.28
Const. Mobil Offsite	0.034	0.338	0.092	0.002	47.910	0.000	0.000
Const. Mobil Onsite	0.000	0.001	0.002	0.0000	0.669	0.000	0.000
Const. Mobil Idling	0.000	0.002	0.002	0.0000054	0.295	0.000	0.000
Total	0.33	4.10	3.00	0.10	612.76	0.07	565.28
Year	ROG Lb/Day	CO Lb/Day	NOx Lb/Day	PM10 Lb/Day	CO2 MT/Day	CH4 MT/Day	CO2e MT/Day
2022							
Const. Equip	1.66	20.88	16.12	0.54	1.57	0.00	1.57
Const. Mobil Offsite	0.19	1.88	0.51	0.01	0.13	0.00	0.00
Const. Mobil Onsite	0.00	0.00	0.01	0.00	0.00	0.00	0.00
Const. Mobil Idling	0.00	0.01	0.01	0.00	0.00	0.00	0.00
Total	1.85	22.78	16.65	0.55	1.70	0.00	1.57

Year	ROG Tons/Yr	CO Tons/Yr	NOx Tons/Yr	PM10 Tons/Yr	CO2 MT/Yr	CH4 MT/Yr	CO2e MT/Yr
2023							
Const. Equip	0.27	3.19	2.50	0.09	479.76	0.06	480.94
Const. Mobil Offsite	0.028	0.286	0.078	0.001	40.561	0.000	0.000
Const. Mobil Onsite	0.000	0.001	0.001	0.0000	0.628	0.000	0.000
Const. Mobil Idling	0.000	0.002	0.002	0.0000048	0.278	0.000	0.000
Total	0.30	3.48	2.58	0.09	521.23	0.06	480.94
Year	ROG Lb/Day	CO Lb/Day	NOx Lb/Day	PM10 Lb/Day	CO2 MT/Day	CH4 MT/Day	CO2e MT/Day
2023							
Const. Equip	1.49	17.72	13.91	0.50	1.33	0.00	1.34
Const. Mobil Offsite	0.16	1.59	0.43	0.01	0.11	0.00	0.00
Const. Mobil Onsite	0.00	0.00	0.01	0.00	0.00	0.00	0.00
Const. Mobil Idling	0.00	0.01	0.01	0.00	0.00	0.00	0.00
Total	1.66	19.32	14.36	0.51	1.45	0.00	1.34

Days / Yr 2020 2021 2022 2023
 360 360 360 360

ID	Phase Type	Equipment Type	# of Units	BHP	ROG Tons/Yr	CO Tons/Yr	NOx Tons/Yr	*PM10 Tons/Yr	CO2 MT/Yr	CH4 MT/Yr	CO2e MT/Yr
1	Demolition	Concrete/Industrial Saws	1	81	0.15	0.74	1.05	0.08	104.44	0.01	104.70
2	Demolition	Excavators	3	162	0.09	2.13	1.45	0.01	326.19	0.03	326.80
3	Demolition	Rubber Tired Dozers	2	255	0.46	1.99	3.84	0.16	360.31	0.04	361.10
4	Grading	Excavators	1	162	0.03	0.75	0.51	0.00	114.36	0.01	114.58
5	Grading	Graders	1	174	0.04	0.86	0.60	0.00	132.53	0.01	132.81
6	Grading	Rubber Tired Dozers	1	255	0.24	1.05	2.02	0.08	189.49	0.02	189.90
7	Grading	Tractors/Loaders/Backhoes	3	97	0.06	1.49	1.00	0.01	200.02	0.02	200.48
8	Building Construction	Cranes	1	226	0.03	0.67	0.13	0.00	242.21	0.02	242.60
9	Building Construction	Forklifts	3	89	0.27	1.50	1.78	0.14	197.34	0.02	197.80
10	Building Construction	Generator Sets	1	84	0.23	1.12	1.64	0.12	164.08	0.02	164.48
11	Building Construction	Tractors/Loaders/Backhoes	3	97	0.12	2.97	1.98	0.01	397.90	0.04	398.82
12	Building Construction	Welders	1	46	0.20	0.61	0.56	0.05	54.64	0.02	54.99
13	Paving	Pavers	2	125	0.06	1.89	1.23	0.01	284.03	0.03	284.73
14	Paving	Paving Equipment	2	130	0.06	1.67	1.11	0.00	253.19	0.03	253.82
15	Paving	Rollers	2	80	0.04	1.24	0.79	0.00	164.47	0.02	164.95
				Totals:	2.08	20.70	19.66	0.69	3,185.22	0.35	3,192.57

ID	Phase Type	Equipment Type	# of Units	BHP	ROG Lbs/Day	CO Lbs/Day	NOx Lbs/Day	*PM10 Lbs/Day	CO2 MT/Day	CH4 MT/Day	CO2e MT/Day
1	Demolition	Concrete/Industrial Saws	1	81	0.68	3.35	4.71	0.38	0.24	0.00	0.24
2	Demolition	Excavators	3	162	0.40	9.61	6.51	0.03	0.73	0.00	0.74
3	Demolition	Rubber Tired Dozers	2	255	2.07	8.98	17.28	0.71	0.81	0.00	0.81
4	Grading	Excavators	1	162	0.13	3.20	2.17	0.01	0.24	0.00	0.25
5	Grading	Graders	1	174	0.18	3.70	2.55	0.01	0.28	0.00	0.28
6	Grading	Rubber Tired Dozers	1	255	1.04	4.49	8.64	0.36	0.41	0.00	0.41
7	Grading	Tractors/Loaders/Backhoes	3	97	0.25	6.39	4.26	0.02	0.43	0.00	0.43
8	Building Construction	Cranes	1	226	0.07	1.44	0.27	0.01	0.26	0.00	0.26
9	Building Construction	Forklifts	3	89	0.58	3.23	3.83	0.30	0.21	0.00	0.21
10	Building Construction	Generator Sets	1	84	0.49	2.42	3.53	0.26	0.18	0.00	0.18
11	Building Construction	Tractors/Loaders/Backhoes	3	97	0.25	6.39	4.26	0.02	0.43	0.00	0.43
12	Building Construction	Welders	1	46	0.43	1.31	1.21	0.11	0.06	0.00	0.06
13	Paving	Pavers	2	125	0.19	5.56	3.63	0.02	0.42	0.00	0.42
14	Paving	Paving Equipment	2	130	0.18	4.92	3.26	0.01	0.37	0.00	0.37
15	Paving	Rollers	2	80	0.10	3.64	2.33	0.01	0.24	0.00	0.24
				Totals:	7.05	68.65	68.45	2.27	5.31	0.00	5.32

[illegible]

2020	2021	2022	2023
243	201	0	0
243	201	0	0
243	201	0	0
201	266	0	0
201	266	0	0
201	266	0	0
201	266	0	0
158	266	260	245
158	266	260	245
158	266	260	245
158	266	260	245
158	266	260	245
0	225	260	195
0	225	260	195
0	225	260	195
0	0	0	

Equipment Type	Load Factors	Default HP	Equipment Class
Aerial Lifts	0.31	34	Industrial
Air Compressors	0.2	78	Stationary Commercial Engine
Bore/Drill Rigs	0.5025	82	Construction and Mining
Cement and Mortar Mixers	0.56	9	CalEEMOD
Concrete/Industrial Saws	0.73	81	CalEEMOD
Cranes	0.2881	208	Construction and Mining
Crawler Tractors	0.4288	82	Construction and Mining
Crushing/Processing Equipment	0.44	85	Stationary Commercial Engine
Dumpers/Tenders	0.38	16	CalEEMOD
Excavators	0.3819	157	Construction and Mining
Forklifts	0.3	149	Industrial
Generator Sets	0.74	84	Stationary Commercial Engine
Graders	0.4087	162	Construction and Mining
Off-Highway Tractors	0.4355	160	Construction and Mining
Off-Highway Trucks	0.3819	381	Construction and Mining
Other Construction Equipment	0.4154	327	Construction and Mining
Other General Industrial Equipment	0.34	150	Industrial
Other Material Handling Equipment	0.4	196	Industrial
Pavers	0.4154	89	Construction and Mining
Paving Equipment	0.3551	82	Construction and Mining
Plate Compactors	0.43	8	CalEEMOD
Pressure Washers	0.3	13	CalEEMOD
Pumps	0.74	84	Stationary Commercial Engine
Rollers	0.3752	84	Construction and Mining
Rough Terrain Forklifts	0.402	83	Construction and Mining
Rubber Tired Dozers	0.3953	358	Construction and Mining
Rubber Tired Loaders	0.3618	87	Construction and Mining
Scrapers	0.4824	356	Construction and Mining
Signal Boards	0.82	6	CalEEMOD
Skid Steer Loaders	0.3685	37	Construction and Mining
Surfacing Equipment	0.3015	392	Construction and Mining
Sweepers/Scrubbers	0.4556	88	Construction and Mining
Tractors/Loaders/Backhoes	0.3685	75	Construction and Mining
Trenchers	0.5025	69	Construction and Mining
Welders	0.45	46	CalEEMOD
Other	0.42		Stationary Commercial Engine

Pollutant	Reduction	Classification	TEIR	Control %
PM10	< 25%	Not Verified	0	0
	≥ 25%	Level 1	1	25
	≥ 50%	Level 2	2	50
	≥ 85%, or ≤ 0.01 g/bhp-hr	Level 3	3	85 0.01

Engine TEIR
0
1
2
3
4I
4F

HP Class	Tier	Year_First	Year_Last
25	Tier 0	0	1998
25	Tier 1	1999	2003
25	Tier 2	2004	2007
25	Tier 4f	2013	9999
25	Tier 4i	2008	2012
50	Tier 0	0	1997
50	Tier 1	1998	2003
50	Tier 2	2004	2007
50	Tier 4f	2013	9999
50	Tier 4i	2008	2012
75	Tier 0	0	1997
75	Tier 1	1998	2003
75	Tier 2	2004	2007
75	Tier 3	2008	2011
75	Tier 4f	2015	9999
75	Tier 4i	2012	2014
100	Tier 0	0	1996
100	Tier 1	1997	2002
100	Tier 2	2003	2006
100	Tier 3	2007	2011
100	Tier 4f	2015	9999
100	Tier 4i	2012	2014
175	Tier 0	0	1995
175	Tier 1	1996	2002
175	Tier 2	2003	2005
175	Tier 3	2006	2010
175	Tier 4f	2013	9999
175	Tier 4i	2011	2012
300	Tier 0	0	1995
300	Tier 1	1996	2000
300	Tier 2	2001	2005
300	Tier 3	2006	2010
300	Tier 4f	2013	9999
300	Tier 4i	2011	2012
600	Tier 0	0	1995
600	Tier 1	1996	2001
600	Tier 2	2002	2005
600	Tier 3	2006	2010
600	Tier 4f	2013	9999
600	Tier 4i	2011	2012
750	Tier 0	0	1999
750	Tier 1	2000	2005
750	Tier 2	2006	2010
750	Tier 4f	2015	9999
750	Tier 4i	2011	2014
750	Tier 4i	2011	2014

	2020	2021	2022	2023
	PM 10 (Ton/Yr)			
Const. Equip	2.32E-01	2.65E-01	0.10	0.090746
Const. Mobil Onsite	1.47E-05	1.30E-05	1.67E-05	1.51E-05
Const. Mobil Idling	4.48E-06	6.47E-06	5.41E-06	4.77E-06

	2020	2021	2022	2023
Admin	9%	9%	9%	9%
Residence	1%	1%	1%	1%
Pavilion	50%	35%	35%	35%
Parking	40%	55%	55%	55%

100.00%

Units	2020	2021	2022	2023
	PM 10 (Ton/Yr)			
ADMIN	2.09E-02	2.38E-02	8.76E-03	8.17E-03
HOSP_RES	2.32E-03	2.65E-03	9.74E-04	9.07E-04
IDL_ADM	1.32E-06	1.17E-06	1.50E-06	1.36E-06
STCK1	2.24E-06	2.27E-06	1.90E-06	1.67E-06
IDL_RES	4.48E-08	6.47E-08	5.41E-08	4.77E-08
PAREA1	5.81E-03	4.63E-03	1.70E-03	1.59E-03
PAREA3	1.76E-02	1.40E-02	5.16E-03	4.81E-03
PAREA4	1.87E-02	1.49E-02	5.49E-03	5.12E-03
PAREA5	2.09E-02	1.67E-02	6.14E-03	5.72E-03
PAREA6	2.04E-02	1.63E-02	5.99E-03	5.58E-03
PAREA7	1.74E-02	1.39E-02	5.11E-03	4.76E-03
PAREA8	1.51E-02	1.20E-02	4.43E-03	4.13E-03
PARKING1	1.67E-02	2.62E-02	9.64E-03	8.98E-03
PARKING2	9.30E-03	1.46E-02	5.36E-03	4.99E-03
PARKING3	9.30E-03	1.46E-02	5.36E-03	4.99E-03
PARKING4	1.49E-02	2.33E-02	8.57E-03	7.99E-03
PARKING5	1.49E-02	2.33E-02	8.57E-03	7.99E-03
PARKING6	1.49E-02	2.33E-02	8.57E-03	7.99E-03
PARKING7	1.30E-02	2.04E-02	7.50E-03	6.99E-03
TRL_ADM	1.32E-06	1.17E-06	1.50E-06	1.36E-06
TRL_MAIN	7.33E-06	4.54E-06	5.83E-06	5.28E-06
TRL_RES	1.47E-07	1.30E-07	1.67E-07	1.51E-07

Units	2020	2021	2022	2023	
	PM 10 (g/sec)				Sum
ADMIN	6.02E-04	6.86E-04	2.52E-04	2.35E-04	1.77E-03
HOSP_RES	6.69E-05	7.62E-05	2.80E-05	2.61E-05	1.97E-04
IDL_ADM	3.80E-08	3.36E-08	4.32E-08	3.90E-08	1.54E-07
STCK1	6.44E-08	6.52E-08	5.45E-08	4.80E-08	2.32E-07
IDL_RES	1.29E-09	1.86E-09	1.56E-09	1.37E-09	6.08E-09
PAREA1	1.67E-04	1.33E-04	4.90E-05	4.57E-05	3.95E-04
PAREA3	5.07E-04	4.04E-04	1.49E-04	1.38E-04	1.20E-03
PAREA4	5.39E-04	4.30E-04	1.58E-04	1.47E-04	1.27E-03
PAREA5	6.02E-04	4.80E-04	1.77E-04	1.64E-04	1.42E-03
PAREA6	5.87E-04	4.68E-04	1.72E-04	1.60E-04	1.39E-03
PAREA7	5.02E-04	4.00E-04	1.47E-04	1.37E-04	1.19E-03
PAREA8	4.35E-04	3.47E-04	1.27E-04	1.19E-04	1.03E-03
PARKING1	4.81E-04	7.54E-04	2.77E-04	2.58E-04	1.77E-03
PARKING2	2.67E-04	4.19E-04	1.54E-04	1.44E-04	9.84E-04
PARKING3	2.67E-04	4.19E-04	1.54E-04	1.44E-04	9.84E-04
PARKING4	4.28E-04	6.70E-04	2.47E-04	2.30E-04	1.57E-03
PARKING5	4.28E-04	6.70E-04	2.47E-04	2.30E-04	1.57E-03
PARKING6	4.28E-04	6.70E-04	2.47E-04	2.30E-04	1.57E-03
PARKING7	3.74E-04	5.87E-04	2.16E-04	2.01E-04	1.38E-03
TRL_ADM	3.80E-08	3.36E-08	4.32E-08	3.90E-08	1.54E-07
TRL_MAIN	2.11E-07	1.31E-07	1.68E-07	1.52E-07	6.61E-07
TRL_RES	4.22E-09	3.73E-09	4.80E-09	4.34E-09	1.71E-08

Hospital Filter Controls 0%
100%

ID	Phase Type (Select a drop down list item in Column B; if "Other", please specify in Column C)	Phase Start Date	Phase End Date	Operating Hours Per Day ¹	Work Days Per Week	Equipment Type (Select a drop down list item in Column H; if "Other" please specify in Column I)	Number of Equipment	Horsepower (if known)	Load Factor (if known)	Engine Mfg Year	Engine Tier Rating (Tier 2, Tier 4i) ⁴	Diesel Particulate Filter (Level) ⁵	Engine Hours	Days (Calculated)	2015	2016	2017
1	Demolition	05/25/15	09/12/15	8	5	Concrete/Industrial Saws	1	81	0.73	2008				110	110	0	0
2	Demolition	05/25/15	09/12/15	8	5	Rubber Tired Dozers	1	255	0.4	2008				110	110	0	0
3	Demolition	05/25/15	09/12/15	8	5	Tractors/Loaders/Backhoes	3	97	0.37	2008				110	110	0	0
4	Grading	10/27/15	11/16/15	8	5	Graders	1	174	0.41	2008			20	20	0	0	0
5	Grading	10/27/15	11/16/15	8	5	Rubber Tired Dozers	1	255	0.4	2008			20	20	0	0	0
6	Grading	10/27/15	11/16/15	7	5	Tractors/Loaders/Backhoes	2	97	0.37	2008			20	20	0	0	0
7	Building Construction	01/01/16	12/26/16	6	5	Cranes	1	226	0.29	2008				360	0	360	0
8	Building Construction	01/01/16	12/26/16	6	5	Forklifts	2	89	0.2	2008				360	0	360	0
9	Building Construction	01/01/16	12/26/16	5	5	Generator Sets	1	84	0.74	2008				360	0	360	0
10	Building Construction	01/01/16	12/26/16	6	5	Tractors/Loaders/Backhoes	1	97	0.37	2008				360	0	360	0
11	Building Construction	01/01/16	12/26/16	5	5	Welders	3	46	0.45	2008				360	0	360	0
12	Paving	01/01/17	01/21/17	8	5	Cement and Mortar Mixers	1	9	0.56	2008			20	0	0	0	20
13	Paving	01/01/17	01/21/17	8	5	Pavers	1	125	0.42	2008			20	0	0	0	20
14	Paving	01/01/17	01/21/17	8	5	Paving Equipment	1	130	0.36	2008			20	0	0	0	20
15	Paving	01/01/17	01/21/17	8	5	Rollers	2	80	0.38	2008			20	0	0	0	20
16	Paving	01/01/17	01/21/17	8	5	Tractors/Loaders/Backhoes	1	97	0.37	2008			20	0	0	0	20

Project Summary By Year							
Year	ROG Tons/Yr	CO Tons/Yr	NOx Tons/Yr	*PM10 Tons/Yr	CO2 MT/Yr	CH4 MT/Yr	CO2e MT/Yr
2015	0.17	1.16	1.55	0.09	155.90	0.02	156.37
2016	0.58	2.22	2.72	0.23	295.31	0.06	296.56
2017	0.01	0.13	0.10	0.01	18.28	0.00	18.34
Totals	0.76	3.51	4.37	0.32	469	0	471

Maximum Daily Emissions							
ROG Lbs/Day	CO Lbs/Day	NOx Lbs/Day	*PM10 Lbs/Day	CO2 MT/Day	CH4 MT/Day	CO2e MT/Day	
2.80	18.25	24.85	1.48	1.22	0.00	1.23	
1, 2, 3,							

Year	ROG Tons/Yr	CO Tons/Yr	NOx Tons/Yr	PM10 Tons/Yr	CO2 MT/Yr	CH4 MT/Yr	CO2e MT/Yr
2015							
Const. Equip	0.17	1.16	1.55	0.091	155.90	0.02	156.37
Const. Mobil Offsite	0.011	0.110	0.046	0.001	14.494	0.000	0.000
Const. Mobil Onsite	0.000	0.000	0.000	0.0000	0.019	0.000	0.000
Const. Mobil Idling	0.000	0.000	0.000	0.0000017	0.035	0.000	0.000
Total	0.18	1.27	1.60	0.09	170.45	0.02	156.37
Year	ROG Lb/Day	CO Lb/Day	NOx Lb/Day	PM10 Lb/Day	CO2 MT/Day	CH4 MT/Day	CO2e MT/Day
2015							
Const. Equip	2.65	17.81	23.92	1.40	1.20	0.00	1.20
Const. Mobil Offsite	0.17	1.69	0.71	0.01	0.11	0.00	0.00
Const. Mobil Onsite	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Const. Mobil Idling	0.00	0.00	0.01	0.00	0.21	0.00	0.00
Total	2.82	19.51	24.64	1.41	1.52	0.00	1.20
Year	ROG Tons/Yr	CO Tons/Yr	NOx Tons/Yr	PM10 Tons/Yr	CO2 MT/Yr	CH4 MT/Yr	CO2e MT/Yr
2016							
Const. Equip	0.58	2.22	2.72	0.23	295.31	0.06	296.56
Const. Mobil Offsite	0.031	0.311	0.121	0.002	39.451	0.000	0.000
Const. Mobil Onsite	0.000	0.000	0.000	0.0000	0.021	0.000	0.000
Const. Mobil Idling	0.000	0.001	0.002	0.0000101	0.211	0.000	0.000
Total	0.61	2.54	2.84	0.23	335.00	0.06	296.56
Year	ROG Lb/Day	CO Lb/Day	NOx Lb/Day	PM10 Lb/Day	CO2 MT/Day	CH4 MT/Day	CO2e MT/Day
2016							
Const. Equip	3.24	12.35	15.09	1.26	0.82	0.00	0.82
Const. Mobil Offsite	0.17	1.73	0.67	0.01	0.11	0.00	0.00
Const. Mobil Onsite	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Const. Mobil Idling	0.00	0.01	0.01	0.00	0.00	0.00	0.00
Total	3.41	14.08	15.78	1.27	0.93	0.00	0.82
Year	ROG Tons/Yr	CO Tons/Yr	NOx Tons/Yr	PM10 Tons/Yr	CO2 MT/Yr	CH4 MT/Yr	CO2e MT/Yr
2017							
Const. Equip	0.01	0.13	0.10	0.01	18.28	0.00	18.34
Const. Mobil Offsite	0.001	0.006	0.002	0.000	0.611	0.000	0.000
Const. Mobil Onsite	0.000	0.000	0.000	0.0000	0.001	0.000	0.000
Const. Mobil Idling	0.000	0.000	0.000	0.0000006	0.012	0.000	0.000
Total	0.01	0.14	0.10	0.01	18.90	0.00	18.34
Year	ROG Lb/Day	CO Lb/Day	NOx Lb/Day	PM10 Lb/Day	CO2 MT/Day	CH4 MT/Day	CO2e MT/Day
2017							
Const. Equip	0.59	13.29	9.66	0.61	0.91	0.00	0.92
Const. Mobil Offsite	0.05	0.56	0.16	0.00	0.03	0.00	0.00
Const. Mobil Onsite	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Const. Mobil Idling	0.00	0.01	0.01	0.00	0.00	0.00	0.00
Total	0.64	13.86	9.83	0.61	0.95	0.00	0.92
Year	ROG Tons/Yr	CO Tons/Yr	NOx Tons/Yr	PM10 Tons/Yr	CO2 MT/Yr	CH4 MT/Yr	CO2e MT/Yr
0							
Const. Equip	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Const. Mobil Offsite	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Const. Mobil Onsite	0.000	0.000	0.000	0.0000	0.000	0.000	0.000
Const. Mobil Idling	0.000	0.000	0.000	0.0000000	0.000	0.000	0.000
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Year	ROG Lb/Day	CO Lb/Day	NOx Lb/Day	PM10 Lb/Day	CO2 MT/Day	CH4 MT/Day	CO2e MT/Day
0							
Const. Equip	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Const. Mobil Offsite	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Const. Mobil Onsite	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Const. Mobil Idling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Days / Yr

2015

2016

2017

0

0

130

360

20

1

1

ID	Phase Type	Equipment Type	# of Units	BHP	ROG Tons/Yr	CO Tons/Yr	NOx Tons/Yr	*PM10 Tons/Yr	CO2 MT/Yr	CH4 MT/Yr	CO2e MT/Yr
1	Demolition	Concrete/Industrial Saws	1	81	0.06	0.22	0.38	0.03	29.57	0.00	29.67
2	Demolition	Rubber Tired Dozers	1	255	0.08	0.37	0.68	0.03	51.01	0.01	51.14
3	Demolition	Tractors/Loaders/Backhoes	3	97	0.02	0.42	0.31	0.02	53.85	0.01	54.02
4	Grading	Graders	1	174	0.00	0.04	0.03	0.00	6.49	0.00	6.50
5	Grading	Rubber Tired Dozers	1	255	0.01	0.07	0.12	0.01	9.27	0.00	9.30
6	Grading	Tractors/Loaders/Backhoes	2	97	0.00	0.04	0.03	0.00	5.71	0.00	5.73
7	Building Construction	Cranes	1	226	0.02	0.27	0.38	0.02	80.45	0.01	80.62
8	Building Construction	Forklifts	2	89	0.09	0.35	0.54	0.05	43.70	0.01	43.86
9	Building Construction	Generator Sets	1	84	0.12	0.45	0.81	0.06	63.58	0.01	63.80
10	Building Construction	Tractors/Loaders/Backhoes	1	97	0.02	0.34	0.25	0.02	44.06	0.01	44.20
11	Building Construction	Welders	3	46	0.33	0.81	0.73	0.08	63.52	0.03	64.08
12	Paving	Cement and Mortar Mixers	1	9	0.00	0.00	0.00	0.00	0.46	0.00	0.46
13	Paving	Pavers	1	125	0.00	0.03	0.02	0.00	4.77	0.00	4.79
14	Paving	Paving Equipment	1	130	0.00	0.03	0.02	0.00	4.26	0.00	4.27
15	Paving	Rollers	2	80	0.00	0.04	0.03	0.00	5.53	0.00	5.55
16	Paving	Tractors/Loaders/Backhoes	1	97	0.00	0.03	0.02	0.00	3.26	0.00	3.27
				Totals:	0.76	3.51	4.37	0.32	469.49	0.08	471.27

ID	Phase Type	Equipment Type	# of Units	BHP	ROG Lbs/Day	CO Lbs/Day	NOx Lbs/Day	*PM10 Lbs/Day	CO2 MT/Day	CH4 MT/Day	CO2e MT/Day
1	Demolition	Concrete/Industrial Saws	1	81	1.07	3.98	6.87	0.57	0.27	0.00	0.27
2	Demolition	Rubber Tired Dozers	1	255	1.40	6.72	12.38	0.53	0.46	0.00	0.46
3	Demolition	Tractors/Loaders/Backhoes	3	97	0.33	7.56	5.60	0.38	0.49	0.00	0.49
4	Grading	Graders	1	174	0.25	4.27	3.19	0.21	0.32	0.00	0.33
5	Grading	Rubber Tired Dozers	1	255	1.40	6.72	12.38	0.53	0.46	0.00	0.46
6	Grading	Tractors/Loaders/Backhoes	2	97	0.19	4.41	3.27	0.22	0.29	0.00	0.29
7	Building Construction	Cranes	1	226	0.13	1.52	2.13	0.09	0.22	0.00	0.22
8	Building Construction	Forklifts	2	89	0.51	1.92	2.99	0.29	0.12	0.00	0.12
9	Building Construction	Generator Sets	1	84	0.69	2.52	4.50	0.35	0.18	0.00	0.18
10	Building Construction	Tractors/Loaders/Backhoes	1	97	0.09	1.89	1.41	0.10	0.12	0.00	0.12
11	Building Construction	Welders	3	46	1.82	4.50	4.07	0.43	0.18	0.00	0.18
12	Paving	Cement and Mortar Mixers	1	9	0.06	0.31	0.40	0.02	0.02	0.00	0.02
13	Paving	Pavers	1	125	0.13	3.26	2.26	0.13	0.24	0.00	0.24
14	Paving	Paving Equipment	1	130	0.13	2.88	2.03	0.12	0.21	0.00	0.21
15	Paving	Rollers	2	80	0.14	4.31	3.07	0.20	0.28	0.00	0.28
16	Paving	Tractors/Loaders/Backhoes	1	97	0.12	2.52	1.89	0.13	0.16	0.00	0.16
				Totals:	8.47	59.29	68.43	4.31	4.03	0.00	4.04

ID	Phase	Operating Hours Per Day	Work Days Per Week	Equipment Type	Number of Equipment	Horsepower (if known)	Load Factor (if known)	Engine Year	Engine Tier Rating (Tier 2, Tier 4)	Diesel Particulate Filter (Level)	Engine Hours	Engine Age	PM10 Control%	ROG EF g/BHP-hr	ROG Det. (g/BHP- hr)*hr	CO EF g/BHP-hr	CO Det. (g/BHP-hr)*hr	NOx EF g/BHP-hr	NOx Det. (g/BHP- hr)*hr	PM10 EF g/BHP-hr	PM10 Det. (g/BHP- hr)*hr	CO2 EF g/BHP-hr	CH4 EF g/BHP-hr	Operating Days	ROG Lbs/Day	ROG Tons/Yr	CO Lbs/Day	CO Tons/Yr	NOx Lbs/Day	NOx Tons/Yr	PM10 Lbs/Day	PM10 Tons/Yr	CO2 MT/Day	CO2 MT/Yr	CH4 MT/Day	CH4 MT/Yr	CO2e MT/Day	CO2e MT/Yr	NOx Fuel Adj.	PM Fuel Adj.	HC Fuel Adj.	2015	2016	2017				
1	Demolition	8	5	Concrete/Industrial Saws	1	81	0.33	2008	0		0	7		1.028	0	3.813	0	6.592	0	0.551	0	568.299	0.092	110	1.07226	0.0586811	3.9794143	0.2187038	6.87451443	0.3780583	0.5746443	0.0336038	0.2606236	20.3766	4.302E-05	0.0047971	0.2697375	29.671129	CALEEMOD	1	1	1	110	0	0			
2	Demolition	8	5	Rubber Tired Dozers	1	255	0.4	2008	0		0	7		0.776	0	3.735	0	6.88	0	0.293	0	568.299	0.07	110	1.39598	0.0767788	6.7190476	0.3695676	12.37672	0.6807196	0.5270899	0.0280899	0.463725	51.00975	5.712E-06	0.0062831	0.4640465	9.141695	CALEEMOD	1	1	1	110	0	0			
3	Demolition	8	5	Tractors/Loaders/Backhoes	3	97	0.37	2008	0		5779.303748	7	0.09	0.1	0.000025	3.98	0	2.89	0	0.000038	0.2	0.00003858	568.299	0.09	110	0.33427	0.0183846	7.5577884	0.4156784	5.5979164	0.3078854	0.3791601	0.0208538	0.4895018	53.845197	7.752E-05	0.0085273	0.4911297	54.024271	0.948	0.8	0.72	110	0	0			
4	Grading	8	5	Graders	1	174	0.41	2008	0		6864.751481	7	0	0.1	0.000025	3.997	0	2.45	0	0.000032	0.14	0.00001	568.299	0.072	20	0.24651	0.0024451	4.274109	0.0427411	3.1853804	0.0318508	0.2102177	0.0021022	0.3245341	6.466563	4.109E-05	0.0008218	0.3251971	6.5029413	0.948	0.8	0.72	20	0	0			
5	Grading	8	5	Rubber Tired Dozers	1	255	0.4	2008	0		0	7	0	0.776	0	3.735	0	6.88	0	0.293	0	568.299	0.07	20	1.39598	0.0139598	6.7190476	0.0671905	12.37672	0.5270899	0.0052709	0.463725	9.2745	5.712E-06	0.0011424	0.4640465	9.29849	CALEEMOD	1	1	1	20	0	0				
6	Grading	7	5	Tractors/Loaders/Backhoes	2	97	0.37	2008	0		5779.303748	7	0.09	0.1	0.000025	3.98	0	2.89	0	0.000038	0.2	0.00003858	568.299	0.09	20	0.1950	0.0019	4.4087	0.0441	3.3655	0.0327	0.2212	0.0002	0.2855	5.7109	0.0000	0.0009	0.2865	5.7298	0.948	0.8	0.72	20	0	0			
7	Building Construction	6	5	Cranes	1	226	0.29	2008	0		4364.100647	8	0	0.1	0.000025	3.794	0	2.45	0	0.000038	0.11	0.0000059	568.299	0.056	360	0.13552	0.0234936	1.5255974	0.2737075	2.1275986	0.3629641	0.0932092	0.0167777	0.2234741	80.49089	2.002E-05	0.0079276	0.2238966	80.61717	0.948	0.8	0.72	0	360	0			
8	Building Construction	6	5	Forklifts	2	89	0.2	2008	0		0	8	0	1.086	0	4.076	0	6.339	0	0.618	0	568.299	0.098	360	0.5114	0.0920214	1.9193862	0.3454895	2.9805317	0.5373957	0.2910159	0.0523829	0.1213866	43.699185	2.093E-05	0.0075357	0.1218024	43.857434	CALEEMOD	1	1	1	0	360	0			
9	Building Construction	5	5	Generator Sets	1	84	0.74	2008	0		0	8	0.09	1.005	0	3.677	0	6.573	0	0.516	0	568.299	0.09	360	0.08861	0.12395	2.5194259	0.4534967	4.5037222	0.81067	0.3535556	0.06364	0.1766244	63.584769	2.797E-05	0.0100698	0.1772118	63.796234	CALEEMOD	1	1	1	0	360	0			
10	Building Construction	6	5	Tractors/Loaders/Backhoes	1	97	0.37	2008	0		6329.205811	8	0.09	0.1	0.000025	3.98	0	2.89	0	0.000038	0.2	0.00003858	568.299	0.09	360	0.08827	0.0158678	1.8684471	0.3401005	1.4086835	0.255599	0.0655615	0.0175847	0.1222954	44.05161	1.948E-05	0.0069769	0.1227824	44.203676	0.948	0.8	0.72	0	360	0			
11	Building Construction	5	5	Welders	3	46	0.45	2008	0		0	8	0.239	2.658	0	6.571	0	5.944	0	0.623	0	568.299	0.239	360	1.81946	0.3275036	4.498006	0.8096411	4.0688995	0.7323857	0.4264583	0.0767625	0.1794639	63.523394	7.621E-05	0.0067315	0.1791022	64.084408	CALEEMOD	1	1	1	0	360	0			
12	Paving	8	5	Cement and Mortar Mixers	1	9	0.56	2008	0		0	9	0.064	0.709	0	3.492	0	4.545	0	0.26	0	568.299	0.064	20	0.06302	0.0006302	0.3104	0.003104	0.404	0.00404	0.0231111	0.0002311	0.0229134	0.4582686	2.58E-06	5.161E-05	0.0229676	0.4599524	CALEEMOD	1	1	1	0	0	20			
13	Paving	8	5	Pavers	1	125	0.42	2008	0		4007.440454	9	0.081	0.1	0.000025	3.525	0	2.45	0	0.000032	0.14	0.00001	568.299	0.081	20	0.13346	0.0013346	1.2656889	0.0336589	2.2631201	0.0226312	0.1333884	0.0033339	0.2268616	4.7736313	3.402E-05	0.0004804	0.239396	4.7671995	0.948	0.8	0.72	0	0	20			
14	Paving	8	5	Paving Equipment	1	130	0.36	2008	0		4581.290594	9	0.081	0.1	0.000025	3.492	0	2.45	0	0.000032	0.14	0.00001	568.299	0.081	20	0.12749	0.0012749	2.8822857	0.0228229	2.0317787	0.0203178	0.1226955	0.001227	0.2127676	4.2553513	3.033E-05	0.0006005	0.2134044	4.2680882	0.948	0.8	0.72	0	0	20			
15	Paving	8	5	Rollers	2	80	0.38	2008	0		3410.81089	9	0.104	0.1	0.000025	4.023	0	2.89	0	0.000038	0.2	0.00003858	568.299	0.104	20	0.14304	0.0014304	4.3138048	0.043139	3.06959	0.0306959	0.1960751	0.0019668	0.276416	5.5283197	5.058E-05	0.0010117	0.2774783	5.5495653	0.948	0.8	0.72	0	0	20			
16	Paving	8	5	Tractors/Loaders/Backhoes	1	97	0.37	2008	0		6840.772118	9	0.09	0.1	0.000025	3.98	0	2.89	0	0.000038	0.2	0.00003858	568.299	0.09	20	0.13352	0.0013352	2.5192628	0.0251926	1.8901763	0.0189018	0.1309985	0.00331	0.1601673	3.2633453	2.584E-05	0.0005108	0.1637099	3.2743982	0.948	0.8	0.72	0	0	20			
																										0																	0					

Equipment Type	Load Factors	Default HP	Equipment Class
Aerial Lifts	0.31	34	Industrial
Air Compressors	0.2	78	Stationary Commercial Engine
Bore/Drill Rigs	0.5025	82	Construction and Mining
Cement and Mortar Mixers	0.56	9	CalEEMOD
Concrete/Industrial Saws	0.73	81	CalEEMOD
Cranes	0.2881	208	Construction and Mining
Crawler Tractors	0.4288	82	Construction and Mining
Crushing/Processing Equipment	0.44	85	Stationary Commercial Engine
Dumpers/Tenders	0.38	16	CalEEMOD
Excavators	0.3819	157	Construction and Mining
Forklifts	0.3	149	Industrial
Generator Sets	0.74	84	Stationary Commercial Engine
Graders	0.4087	162	Construction and Mining
Off-Highway Tractors	0.4355	160	Construction and Mining
Off-Highway Trucks	0.3819	381	Construction and Mining
Other Construction Equipment	0.4154	327	Construction and Mining
Other General Industrial Equipment	0.34	150	Industrial
Other Material Handling Equipment	0.4	196	Industrial
Pavers	0.4154	89	Construction and Mining
Paving Equipment	0.3551	82	Construction and Mining
Plate Compactors	0.43	8	CalEEMOD
Pressure Washers	0.3	13	CalEEMOD
Pumps	0.74	84	Stationary Commercial Engine
Rollers	0.3752	84	Construction and Mining
Rough Terrain Forklifts	0.402	83	Construction and Mining
Rubber Tired Dozers	0.3953	358	Construction and Mining
Rubber Tired Loaders	0.3618	87	Construction and Mining
Scrapers	0.4824	356	Construction and Mining
Signal Boards	0.82	6	CalEEMOD
Skid Steer Loaders	0.3685	37	Construction and Mining
Surfacing Equipment	0.3015	392	Construction and Mining
Sweepers/Scrubbers	0.4556	88	Construction and Mining
Tractors/Loaders/Backhoes	0.3685	75	Construction and Mining
Trenchers	0.5025	69	Construction and Mining
Welders	0.45	46	CalEEMOD
Other	0.42		Stationary Commercial Engine

Pollutant	Reduction	Classification	TEIR	Control %
PM10	< 25%	Not Verified	0	0
	≥ 25%	Level 1	1	25
	≥ 50%	Level 2	2	50
	≥ 85%, or ≤ 0.01 g/bhp-hr	Level 3	3	85 0.01

Engine TEIR
0
1
2
3
4I
4F

HP Class	Tier		Year_First	Year_Last
25	Tier 0	0	0	1998
25	Tier 1	1	1999	2003
25	Tier 2	2	2004	2007
25	Tier 4f	4f	2013	9999
25	Tier 4i	4i	2008	2012
50	Tier 0	0	0	1997
50	Tier 1	1	1998	2003
50	Tier 2	2	2004	2007
50	Tier 4f	4f	2013	9999
50	Tier 4i	4i	2008	2012
75	Tier 0	0	0	1997
75	Tier 1	1	1998	2003
75	Tier 2	2	2004	2007
75	Tier 3	3	2008	2011
75	Tier 4f	4f	2015	9999
75	Tier 4i	4i	2012	2014
100	Tier 0	0	0	1996
100	Tier 1	1	1997	2002
100	Tier 2	2	2003	2006
100	Tier 3	3	2007	2011
100	Tier 4f	4f	2015	9999
100	Tier 4i	4i	2012	2014
175	Tier 0	0	0	1995
175	Tier 1	1	1996	2002
175	Tier 2	2	2003	2005
175	Tier 3	3	2006	2010
175	Tier 4f	4f	2013	9999
175	Tier 4i	4i	2011	2012
300	Tier 0	0	0	1995
300	Tier 1	1	1996	2000
300	Tier 2	2	2001	2005
300	Tier 3	3	2006	2010
300	Tier 4f	4f	2013	9999
300	Tier 4i	4i	2011	2012
600	Tier 0	0	0	1995
600	Tier 1	1	1996	2001
600	Tier 2	2	2002	2005
600	Tier 3	3	2006	2010
600	Tier 4f	4f	2013	9999
600	Tier 4i	4i	2011	2012
750	Tier 0	0	0	1999
750	Tier 1	1	2000	2005
750	Tier 2	2	2006	2010
750	Tier 4f	4f	2015	9999
750	Tier 4i	4i	2011	2014
750	Tier 4i	3	2011	2014

	2015	2016	2017
	PM 10 (Ton/Yr)		
Const. Equip	9.10E-02	2.27E-01	6.07E-03
Const. Mobil Onsite		1.73E-06	
Const. Mobil Idling		1.01E-05	

	2015	2016	2017
Garage	20%	1%	8%
OPC2	75%	88%	80%
CUP	5%	12%	12%

75%

Units	2015	2016	2017
	PM 10 (Ton/Yr)		
CUP	5.26E-03	8.51E-03	5.11E-03
DEMO_GAR	2.10E-02	1.70E-03	3.40E-03
IDL_CUP	1.17E-07	1.21E-06	0.00E+00
IDL_GAR	3.04E-07	1.01E-07	5.60E-07
IDL_OP2	5.79E-08	8.87E-06	0.00E+00
IDL_REN	1.20E-06	0.00E+00	0.00E+00
OP2	7.89E-02	2.04E-02	3.40E-02
TRL_CUP	1.67E-08	1.20E-06	0.00E+00
TRL_GAR	3.81E-08	1.73E-08	7.04E-08
TRL_OP2	9.93E-09	1.52E-06	0.00E+00
TRL_REN	1.49E-06	0.00E+00	0.00E+00

Units	2015	2016	2017	Sum
	PM 10 (g/sec)			
CUP	1.51E-04	2.45E-04	1.47E-04	5.43E-04
DEMO_GAR	6.05E-04	4.90E-05	9.79E-05	7.52E-04
IDL_CUP	3.38E-09	3.48E-08	0.00E+00	3.82E-08
IDL_GAR	8.73E-09	2.90E-09	1.61E-08	2.78E-08
IDL OPC2	1.67E-09	2.55E-07	0.00E+00	2.57E-07
IDL_REN	3.46E-08	0.00E+00	0.00E+00	3.46E-08
OPC2	2.27E-03	5.88E-04	9.79E-04	3.84E-03
TRL_CUP	4.82E-10	3.45E-08	0.00E+00	3.50E-08
TRL_GAR	1.10E-09	4.97E-10	2.03E-09	3.62E-09
TRL OPC2	2.86E-10	4.37E-08	0.00E+00	4.40E-08
TRL_REN	4.29E-08	0.00E+00	0.00E+00	4.29E-08

Hospital Filter Controls 82%
 18%

After Phase 1 HRA

Cancer (In a Million)																					
Height	B10	B11	B12	B3	B4	B5	B6	B7	B8	B9	BLMR_GEN	CUP_GEN1	CUP_GEN2	HELISTOP	LOADING	OPC1_GEN	OPC2_GEN	OPC2_HEL	SLINE1	TRK_IDLI	Sum
0 Feet	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.001	0.00	0.00	0.00	0.10

PM _{2.5}																					
Height	B10	B11	B12	B3	B4	B5	B6	B7	B8	B9	BLMR_GEN	CUP_GEN1	CUP_GEN2	HELISTOP	LOADING	OPC1_GEN	OPC2_GEN	OPC2_HEL	SLINE1	TRK_IDLI	Sum
0 Feet	0.005	0.005	0.005	0.162	0.165	0.169	0.007	0.007	0.000	0.000	0.000	0.009	0.009	0.003	0.000	0.000	0.000	0.000	0.000	0.001	0.55

Chronic HI																					
Height	B10	B11	B12	B3	B4	B5	B6	B7	B8	B9	BLMR_GEN	CUP_GEN1	CUP_GEN2	HELISTOP	LOADING	OPC1_GEN	OPC2_GEN	OPC2_HEL	SLINE1	TRK_IDLI	Sum
0 Feet	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.024	0.023	0.004	0.000	0.001	0.001	0.001	0.000	0.003	0.058

Acute HI																					
Height	B10	B11	B12	B3	B4	B5	B6	B7	B8	B9	BLMR_GEN	CUP_GEN1	CUP_GEN2	HELISTOP	LOADING	OPC1_GEN	OPC2_GEN	OPC2_HEL	SLINE1	TRK_IDLI	Sum
0 Feet	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.131	0.000	0.137

Assume Children are outside for 1 day

Cancer (In a Million)																					
Height	B10	B11	B12	B3	B4	B5	B6	B7	B8	B9	BLMR_GEN	CUP_GEN1	CUP_GEN2	HELISTOP	LOADING	OPC1_GEN	OPC2_GEN	OPC2_HEL	SLINE1	TRK_IDLI	Sum
Play Yard	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	0.00	0.00	0.00	0.00	0.009

Chronic HI																					
Height	B10	B11	B12	B3	B4	B5	B6	B7	B8	B9	BLMR_GEN	CUP_GEN1	CUP_GEN2	HELISTOP	LOADING	OPC1_GEN	OPC2_GEN	OPC2_HEL	SLINE1	TRK_IDLI	Sum
Play Yard	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.024	0.023	0.004	0.000	0.001	0.001	0.001	0.000	0.003	0.058

Acute HI																					
Height	B10	B11	B12	B3	B4	B5	B6	B7	B8	B9	BLMR_GEN	CUP_GEN1	CUP_GEN2	HELISTOP	LOADING	OPC1_GEN	OPC2_GEN	OPC2_HEL	SLINE1	TRK_IDLI	Sum
Play Yard	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.131	0.000	0.137