TABLE 3 COLUSA ILA CONSTRUCTION AND OPERATION EMISSIONS SUMMARY

Construction Engine Emissions

		DAILY	NUMBER	NUMBER	ONE-WAY		NO _x		İ	ROC	The state of the s		PM ₁₀			SO _x			СО		I
	SIZE /	AMOUNT (1)	OF	OF	DISTANCE	EF (2)	Daily	Total	EF	Daily (lbs/day)	Total	EF	Daily	Total	EF	Daily	Total	EF (2)	Daily	Total	NOTES
SOURCE	GROSS HP	(hrs or trips)	DAYS	UNITS	(miles)		(lbs/day)	(tons)	(2)		(tons)	(2)	(lbs/day)	(tons)	(2)	(lbs/day)	(tons)		(lbs/day)	(tons)	1
Demolition (70 cy)									İ												
Excavator	84	8	3	1	-	774	14	0.020	64	1.1	0.002	13	0.2	0.0004	58	1.0	0.002	79	1.4	0.002	6
Equipment Delivery Truck	Low boy	1	2	-	30	11.3	1.5	0.001	2.2	0.3	0.0003	0.59	0.08	0.0001	0.31	0.0	0.000	14.0	1.9	0.002	7
Semi-end Dump Trucks	20 ton	1	3	-	100	11.3	5	0.007	2.2	1.0	0.001	0.59	0.3	0.000	0.31	0.1	0.000	14.0	6	0.009	7
Worker Light Truck	Light	2	3	-	30	1.00	0.3	0.0004	0.35	0.1	0.0001	0	0	0	0.06	0.02	0.00002	7.22	1.9	0.0029	7
Maxima and Subtotals (Demolition)							20	0.03	İ	2.5	0.004		0.6	0.001		1.2	0.002		11	0.02	
Pad Construction (270cy)																					
Cement Truck	10 yd3	4	2	-	30	11.3	6.0	0.0060	2.2	1.2	0.0012	0.59	0.3	0.0003	0.31	0.2	0.0002	14.0	7.4	0.0074	7
Gravel Truck	10 yd3	4	1.5	-	30	11.3	6.0	0.0045	2.2	1.2	0.0009	0.59	0.3	0.0002	0.31	0.2	0.0001	14.0	7.4	0.0056	7
Worker Light Truck	Light	2	2	-	30	1.00	0.3	0.0003	0.35	0.1	0.0001	0	0	0	0.06	0.02	0.00002	7.22	1.9	0.0019	7
Maxima and Subtotals (Pad Construction)							12.2	0.01		2.4	0.002		0.62	0.001		0.3	0.0003		16.8	0.01	
Trenching & Utility Installation (350cy)			i						l .									ļ .			
Excavator	84	8	12	1	-	774	14	0.082	64	1.1	0.007	13	0.2	0.001	58	1.0	0.006	79	1.4	0.008	6
Equipment Delivery Truck	Low boy	1	2	-	30	11.3	1.5	0.001	2.2	0.3	0.000	0.59	0.1	0.0001	0.31	0.04	0.00004	14.0	1.9	0.002	7
Worker Light Truck	Light	2	12	-	30	1.00	0.3	0.002	0.35	0.1	0.001	0	0	0	0.06	0.02	0.00010	7.2	1.9	0.011	7
Maxima and Subtotals (Trenching and Utili	ty Installation)						15	0.08		1.5	0.008		0.31	0.0015		1.1	0.006		5.2	0.02	
Shelter Placement			!	i					į .									i			T
Crane	150 ton	8	1	1	-	576	10	0.005	82	1.4	0.001	64	1.1	0.0006	41	0.7	0.0004	1624	29	0.014	8
Equipment Delivery Truck	Low boy	1	1	-	150	11.3	7.4	0.004	2.2	1.5	0.001	0.59	0.4	0.0002	0.31	0.2	0.0001	14.0	9.3	0.005	7
Worker Light Truck	Light	2	1	-	30	1.00	0.3	0.000	0.35	0.1	0.000	0	0	0	0.06	0.02	0.00001	7.2	1.9	0.0010	7
Maxima and Subtotals (Shelter Placement)							18	0.01	!	3.0	0.001		1.51	0.001		0.9	0.0005		40	0.02	
General Construction Activities			!	1					į									İ			T T
Compactor	<25 hp	6	12	1	-	8	0.11	0.0006	227	3.0	0.018	1.4	0.02	0.0001	0	0	0	6350	84	0.504	8
Equipment Delivery Truck	Low boy	1	2	-	30	11.3	1.5	0.0015	2.2	0.3	0.0003	0.59	0.1	0.0001	0.31	0.04	0.00004	14.0	1.9	0.002	7
Construction Generator	<50 hp	8	12	1	-	0.02	0.0003	0.000002	0.002	0.00004	0.0000002	0.001	0.00002	0.0000001	0.002	0.00004	0.0000002	0.01	0.0002	0.000001	8
Water Truck	4500 gal.	1	2	-	30	11.3	1.5	0.001	2.2	0.29	0.0003	0.59	0.08	0.0001	0.31	0.04	0.00004	14.0	1.9	0.002	6
Worker Light Truck	Light	1	18	-	30	1.0	0.13	0.001	0.35	0.05	0.0004	0	0	0	0.06	0.008	0.00007	7.2	1.0	0.009	7
Maxima and Subtotals (General Construction	on)						1.7	0.005		3.6	0.019		0.2	0.0003		0.090	0.0002		89	0.52	
Maxima and Subtotals, Construction Engin	e Emissions (3)		İ	1				0.14			0.03			0.004			0.009	l		0.59	T
Total Construction Emissions (Fugitive plu				İ				0.14	İ		0.03			0.16			0.009	İ		0.59	T
Construction Thresholds									İ		(ROC)	<u> </u>									\vdash
Insignifigant Impact (9)								Yes			Yes			Yes			Yes			Yes	

Construction Fugitive Dust Emissions

	DAILY	DAYS	AREA	-				
	AMOUNT	OF	OF GRADING		NOTES			
SOURCE	(hours)	ACTIVITY	/ TRENCHING	EF	(daily lbs)	(total tons)		
Demolition	8	3	0.48 acres	39.4 lb/acre-day	19	0.029	12	
Access Road Use	8	18	0.23 acres	39.4 lb/acre-day	9.1	0.081	13	
Trenching - Cable Installation	8	12	-	0.51 lb/hr	4.1	0.024		
Wind Erosion	24	12	0.51 acres	6.6 lb/acre-day	3.4	0.020	11	
Subtotal, Construction Fugitive Emissions	22	0.15	15					
Total PM10 Construction Emissions (Engir	e Exhaust and I	ugitive) (3)				0.16		

(Continued)

Operation Emissions (4)

		DAILY	DAYS		ONE-WAY		NO _x			ROC			PM ₁₀			SO _x			СО		
	SIZE / GROSS HP	AMOUNT	OF	NUMBER	DISTANCE	EF	Daily (lbs/day)	Annual	EF (g/hr) ⁽²⁾	Daily (lbs/day)	Annual (tons/year)	EF (g/hr) ⁽²⁾	Daily	Annual	EF (g/hr) ⁽²⁾	Daily (lbs/day)	Annual (tons/year)	EF	Daily	Annual	NOTES
		(hours)	ACTIVITY	OF UNITS	(miles)	(g/hr) ⁽²⁾		(tons/year)					(lbs/day)	(tons/year)				(g/hr) ⁽²⁾	(lbs/day)	(tons/year)	
Emergency Generator	337	0.5	60	1		2,325	2.56	0.08	337	0.37	0.011	135	0.15	0.004	313	0.35	0.010	2,865	3.2	0.09	6,14
· ·	(300 KW)																				
Worker Light Truck	Light	-	60	1	30	1.0	0.13	0.004	0.35	0.05	0.001	0	0	0	0.06	0.01	0.0002	7.2	0.96	0.03	7
Total Operation Emissions (5)							2.70	0.08		0.42	0.013		0.15	0.004		0.35	0.011		4.1	0.12	
Operation Thresholds			1		1		Exempt	1		Exempt	•		Exempt			Exempt			Exempt		
Insignifigant Impact (10)							Yes			Yes			Yes			Yes			Yes		

^{&#}x27;- = Not applicable

- Unit abbreviations: g/hr = grams per hour, lb/day = pounds per day, tpy = tons per year, tpq = tons per quarter
 (1) Daily amount is measured in hours for off-road construction equipment (e.g., grader), and in number of trips for on-road vehicles (e.g., worker light-truck).
- (2) Emission factors are in grams per hour for off-road equipment, and in grams per mile for on-road vehicles.
- (3) Construction engine emission subtotals are for the complete project. Major pieces of construction off-road equipment (e.g., grader, dozer) are used consecutively, not concurrently.
- (4) Operation and construction will not occur simultaneously, and hence, the emissions are not additive.
- (5) Operational emission totals are for the project. Only one generator will be tested on a single day.
- (6) Emission factors are from Caterpillar Corp.
- (7) EMFAC7G Emission Factors (1998, 15mph, 75°F)
- (8) SCAQMD CEQA Handbook, Table A9-8-B
- (9) Construction emissions have insignifigant impact when no emission of a major piece of off-road equipment exceeds threshold (i.e., major pieces are used consequently, not concurrently).
- (10) Operation emissions have an insignificant impact if emergency generators are exempt from regulatory limits or if no regulations apply.
- (11) Number of days subject to wind erosion equal to days for trenching.
- (12) Area to be graded is sum of 115-foot by 66-foot fenced compound and 10-foot wide perimeter band.
- (13) Access road assumed to be 1000 ft long and 10 ft wide.

 (14) The 25-minute test cycle will be conducted mostly at 50 percent load. To be conservative, the emissions are calculated at 75 percent load.

 (15) Daily construction fugitive emissions includes the specific activity plus wind erosion.