

Total Construction Criteria Air Pollutants							
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	PM2.5 Fugitive	CO2e	
Year	Tons					MT	
Construction Equipment							
2027	0.09	0.54	0.004	0.004	0.03	233	
	Total Construction Emissions						
Tons	0.09	0.54	0.004	0.004		233	
Pounds/Workdays	Average Daily Emissions					Workdays	
2027	1.46	8.79	0.06	0.06			123
Threshold - lbs/day	54.0	54.0	82.0	54.0			
	Total Construction Emissions						
Pounds	179.30	1080.88	7.99	7.87		0.00	
Average	1.46	8.79	0.06	0.06		0.00	123.00
Threshold - lbs/day	54.0	54.0	82.0	54.0			

N-1 New Building Construction Criteria Air Pollutants							
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	PM2.5 Fugitive	CO2e	
Year	Tons					MT	
Construction Equipment							
2027	0.08	0.30	0.002	0.002	0.005	93	
	Total Construction Emissions						
Tons	0.08	0.30	0.002	0.002		93	
Pounds/Workdays	Average Daily Emissions					Workdays	
2027	1.38	4.88	0.03	0.03			123
Threshold - lbs/day	54.0	54.0	82.0	54.0			
	Total Construction Emissions						
Pounds	169.34	600.82	4.18	4.07		0.00	
Average	1.38	4.88	0.03	0.03		0.00	123.00
Threshold - lbs/day	54.0	54.0	82.0	54.0			

Number of Days Per Year				
2027	3/8/2027	8/25/2027	171	123
			171	123 <i>Total Workdays</i>

Phase	Start Date	End Date	Days/Week	Workdays
Demolition	3/8/2027	3/21/2027	5	10
Site Preparation	3/22/2027	3/22/2027	5	1
Grading	3/23/2027	3/24/2027	5	2
Building Construction	3/25/2027	8/11/2027	5	100
Paving	8/19/2027	8/25/2027	5	5
Architectural Coating	8/12/2027	8/18/2027	5	5
Trenching	3/23/2027	3/24/2027	5	2

New Turf Construction Criteria Air Pollutants							
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	PM2.5 Fugitive	CO2e	
Year	Tons					MT	
Construction Equipment							
2027	0.005	0.24	0.002	0.002	0.02	141	
	Total Construction Emissions						
Tons	0.005	0.24	0.002	0.002		141	
Pounds/Workdays	Average Daily Emissions					Workdays	
2027	1.11	53.34	0.42	0.42			9
Threshold - lbs/day	54.0	54.0	82.0	54.0			
	Total Construction Emissions						
Pounds	9.96	480.07	3.81	3.80		0.00	
Average	1.11	53.34	0.42	0.42		0.00	9.00
Threshold - lbs/day	54.0	54.0	82.0	54.0			

Number of Days Per Year				
2027	3/8/2027	3/18/2027	11	9
			11	9 <i>Total Workdays</i>

Phase	Start Date	End Date	Days/Week	Workdays
Site Preparation	3/8/2027	3/10/2027	5	3
Grading	3/11/2027	3/18/2027	5	6
Trenching	3/11/2027	3/18/2027	5	6

Sequoia High School, Redwood City, CA
- Construction Health Emissions Summary

DPM Construction Emissions - With Tier 4 Interim

Construction		DPM	DPM
Year	Activity	(ton/year)	(lb/yr)
<i>2027</i>	N-1 New Classroom Building	0.0021	4.2
<i>2027</i>	S-2 Baseball Field Turf	0.0019	3.8
<i>Total</i>		<i>0.0040</i>	<i>8.0</i>

PM2.5 Fugitive Dust Construction Emissions - With Tier 4 Interim

Construction		PM2.5	PM2.5
Year	Activity	(ton/year)	(lb/yr)
<i>2027</i>	N-1 New Classroom Building	0.0050	9.9
<i>2027</i>	S-2 Baseball Field Turf	0.0243	48.7
<i>Total</i>		<i>0.0293</i>	<i>58.6</i>

Project Name: Sequoia High School - N-1 Building						Complete ALL Portions in Yellow			
See Equipment Type TAB for type, horsepower and load factor									
Project Size		Dwelling Units		1 total project		acres disturbed			
14,000 s.f. - N-1 Building								Pile Driving? Y/N? N	
s.f. office									
34,000 s.f. other, Quad								1. Construction of a new two-story classroom building totaling approximately 14,000 square feet. 2. Construction of a new, approx. 34,000-sf quad between the new N-1 Building and the Multi-Use Room and existing Football Stadium entry.	
s.f. parking garage		spaces							
s.f. parking lot		spaces							
Construction Days (i.e, M-F)		to							
Construction Hours		am to		pm					
DO NOT MULTIPLY EQUIPMENT HOURS/DAY BY THE QUANTITY OF EQUIPMENT									
Quantity	Description	HP	Load Factor	Hours/day	Total Work Days	Avg. Hours per day	HP Annual Hours	Comments	
	Demolition	Start Date:	3/8/2027	Total phase:	10			Overall Import/Export Volumes	
		End Date:	3/21/2027						
1	Concrete/Industrial Saws	33	0.73	8	10	8	1927	Demolition Volume	
	Excavators	36	0.38			0	0	Square footage of buildings to be demolished	
1	Rubber-Tired Dozers	367	0.4	1	10	1	1468	(or total tons to be hauled)	
2	Tractors/Loaders/Backhoes	84	0.37	6	10	6	3730		
	Other Equipment?								
	Site Preparation	Start Date:	3/22/2027	Total phase:	1				
		End Date:	3/22/2027						
1	Graders	148	0.41	8	1	8	485		
	Rubber Tired Dozers	367	0.4			0	0		
1	Tractors/Loaders/Backhoes	84	0.37	8	1	8	249		
	Other Equipment?								
	Grading / Excavation	Start Date:	3/23/2027	Total phase:	2				
		End Date:	3/24/2027					Soil Hauling Volume	
	Excavators	36	0.38			0	0	Export volume = Est. 1,000 cubic yards?	
1	Graders	148	0.41	6	2	6	728	Import volume = Est. 1,000 cubic yards?	
1	Rubber Tired Dozers	367	0.4	6	2	6	1762		
	Concrete/Industrial Saws	33	0.73			0	0		
1	Tractors/Loaders/Backhoes	84	0.37	7	2	7	435		
	Other Equipment?								
	Trenching/Foundation	Start Date:	3/23/2027	Total phase:	2				
		End Date:	3/24/2027						
1	Tractor/Loader/Backhoe	84	0.37	8	2	8	497		
1	Excavators	36	0.38	8	2	8	219		
	Other Equipment?								
	Building - Exterior	Start Date:	3/25/2027	Total phase:	100			Cement Trucks? Est. 140 Total Round-Trips	
		End Date:	8/11/2027						
1	Cranes	367	0.29	4	100	4	42572	Electric? (Y/N) Otherwise assumed diesel	
2	Forklifts	82	0.2	6	100	6	19680	Liquid Propane (LPG)? (Y/N) Otherwise Assumed diesel	
	Generator Sets	14	0.74			0	0	Or temporary line power? (Y/N)	
2	Tractors/Loaders/Backhoes	84	0.37	8	100	8	49728		
	Welders	46	0.45			0	0		
	Other Equipment?								
	Building - Interior/Architectural Coating	Start Date:	8/12/2027	Total phase:	5				
		End Date:	8/18/2027						
1	Air Compressors	37	0.48	6	5	6	533		
	Aerial Lift	46	0.31			0	0		
	Other Equipment?								
	Paving	Start Date:	8/19/2027	Total phase:	5				
		Start Date:	8/25/2027						
4	Cement and Mortar Mixers	10	0.56	6	5	6	672		
1	Pavers	81	0.42	7	5	7	1191		
	Paving Equipment	89	0.36			0	0		
1	Rollers	36	0.38	7	5	7	479		
1	Tractors/Loaders/Backhoes	84	0.37	7	5	7	1088		
	Other Equipment?								
	Additional Phases	Start Date:		Total phase:					
		Start Date:							
						#DIV/0!	0		
						#DIV/0!	0		
						#DIV/0!	0		
						#DIV/0!	0		
						#DIV/0!	0		

Project Name: Sequoia High School - Baseball Field Artificial Turf						Complete ALL Portions in Yellow		
See Equipment Type TAB for type, horsepower and load factor								
Project Size _____ Dwelling Units _____ 3 total project acres disturbed _____ 3 acres Park _____ _____ s.f. Stadium Support Facilities _____ _____ s.f. office/commercial _____ _____ s.f. other, specify: _____ _____ s.f. parking garage _____ spaces _____ s.f. parking lot _____ spaces Construction Days (i.e, M-F) _____ to _____ Construction Hours _____ am to _____ pm						Pile Driving? Y/N? N 1. Replacement of natural grass with artificial turf at the baseball and softball fields to reduce maintenance and water use.		
DO NOT MULTIPLY EQUIPMENT HOURS/DAY BY THE QUANTITY OF EQUIPMENT								
Quantity	Description	HP	Load Factor	Hours/day	Total Work Days	Avg. Hours per day	HP Annual Hours	Comments
	Site Preparation	Start Date: 3/8/2027		Total phase: 3				
		End Date: 3/10/2027						
1	Graders	148	0.41	8	3	8	1456	
1	Rubber Tired Dozers	367	0.4	7	3	7	3083	
1	Tractors/Loaders/Backhoes	84	0.37	8	3	8	746	
	Other Equipment?	423	0.48					
	Grading / Excavation	Start Date: 3/11/2027		Total phase: 6				
		End Date: 3/18/2027						
	Excavators	36	0.38			0	0	Soil Hauling Volume
1	Graders	148	0.41	8	6	8	2913	Export volume = Est. 14,500 cubic yards?
1	Rubber Tired Dozers	367	0.4	8	6	8	7046	Import volume = Est. 14,500 cubic yards?
	Concrete/Industrial Saws	33	0.73			0	0	
2	Tractors/Loaders/Backhoes	84	0.37	7	6	7	2611	
	Other Equipment?							
	Trenching/Foundation	Start Date: 3/11/2027		Total phase: 6				
		End Date: 3/18/2027						
1	Tractor/Loader/Backhoe	84	0.37	8	6	8	1492	
1	Excavators	36	0.38	8	6	8	657	
	Other Equipment?							
	Additional Phases	Start Date:		Total phase:				
		Start Date:						
						#DIV/0!	0	
						#DIV/0!	0	
						#DIV/0!	0	
						#DIV/0!	0	
						#DIV/0!	0	
Equipment types listed in "Equipment Types" worksheet tab.								
Equipment listed in this sheet is to provide an example of inputs		Complete one sheet for each project component						
It is assumed that water trucks would be used during grading								
Add or subtract phases and equipment, as appropriate								
Modify horsepower or load factor, as appropriate								

25-085 Sequoia High School N-1 New Building Construction T4i Unmit Detailed Report

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