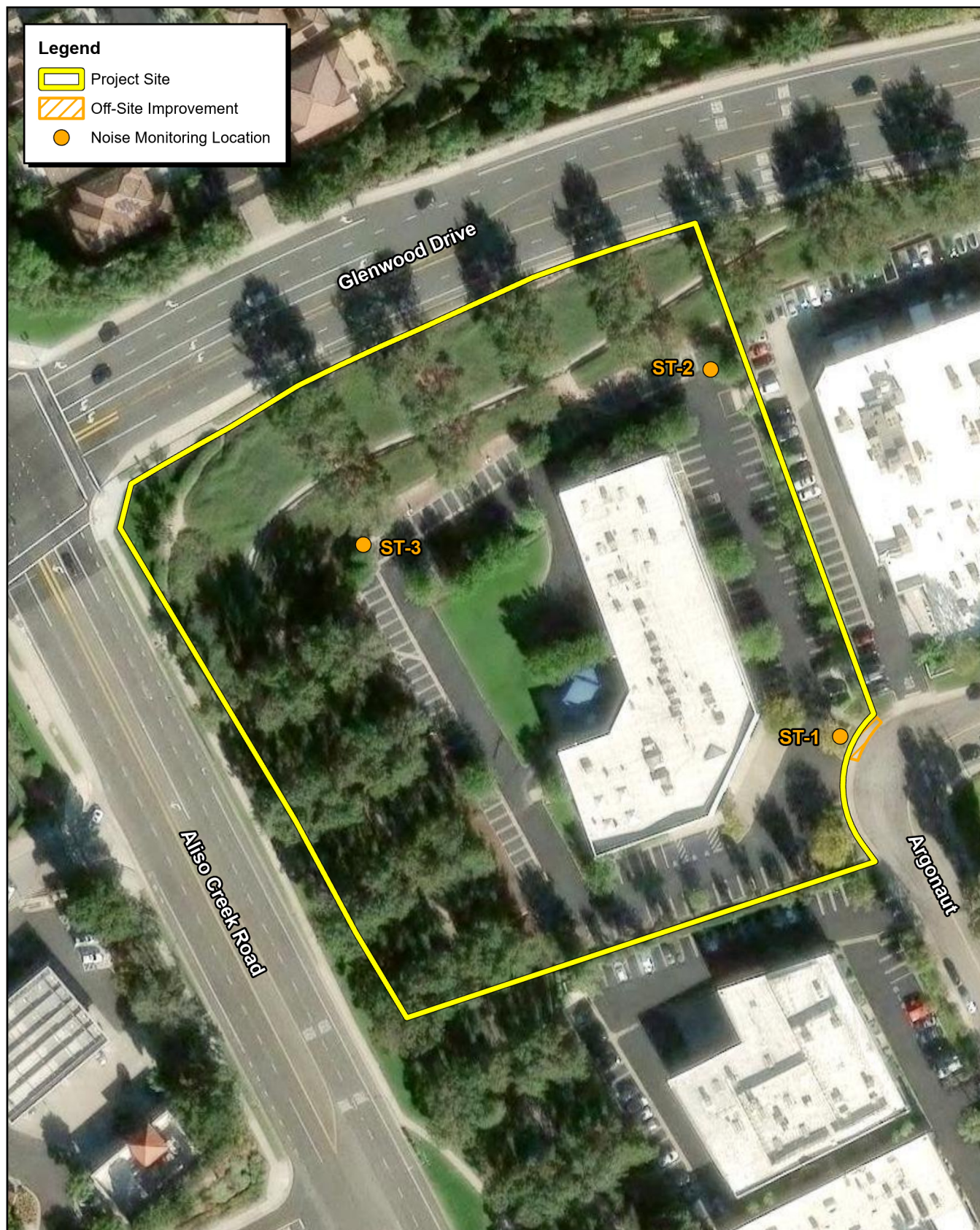

Appendix G:

Noise Supporting Information

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Source: Advanced Civil Group Inc. March 20th, 2026.



Noise Monitoring Locations

Project Number: 6513.0001

Sheet 1 of 2

Project Name: 15 Argonaut ISMND

Test Personnel: Henry Welch

NOISE MEASUREMENT SURVEY

Site Number: 1 Date: 4/21 Time: From 10:51 to 11:06

Site Location: Southeast corner of property. In the greenbelt directly north of driveway entrance. Just west of metal sign pole.

Primary Noise Sources: Traffic from Glenwood Drive & Aliso Creek Road. HVAC system from lab facility at 7 Argonaut

Measurement Results

	dBA
L _{eq}	50.9
L _{max}	61.4
L _{min}	47.1
L _{peak}	-
L ₅	54.7
L ₁₀	53.3
L ₅₀	49.6
L ₉₀	48.2
SEL	-

Observed Noise Sources/Events

Time	Noise Source/Event	dBA
10:58	Airplane	

Comments:

Equipment: LXT 2

Settings: A-Weighted ☒ Other ☐

Measured Difference: 0.15

Slow ☒ Fast ☐

dBA

Windscreen ☒

Atmospheric Conditions

Maximum Wind Velocity (mph)	Average Wind Velocity (mph)	Temperature (F)	Relative Humidity (%)	
9.1	3	67	55	
Comments:				

Photos Taken

Photo Number	Location/Description
1	Facing North towards
2	Facing South towards
3	Facing West towards
4	Facing East towards

Project Number: 6513.0001

Sheet 1 of 2

Project Name: 15 Argonaut ISMND

Test Personnel: Henry Welch

NOISE MEASUREMENT SURVEY

Site Number: 2 Date: 4/21 Time: From 10:56 to 11:

Site Location: Northeast corner of the project site in the parking lot, east of the existing building.

Primary Noise Sources: Traffic from Glenwood Drive & Aliso Creek Road. HVAC system from lab facility at 7 Argonaut

Measurement Results

	dBA
L _{eq}	51.8
L _{max}	60
L _{min}	48.2
L _{peak}	-
L ₅	54.5
L ₁₀	53.2
L ₅₀	51.1
L ₉₀	50
SEL	-

Observed Noise Sources/Events

Time	Noise Source/Event	dBA

Comments:

Equipment: LXT 2

Settings: A-Weighted ☒ Other ☐

Measured Difference: 0.15

Slow ☒ Fast ☐

dBA

Windscreen ☒

Atmospheric Conditions

Maximum Wind Velocity (mph)	Average Wind Velocity (mph)	Temperature (F)	Relative Humidity (%)	
9.1	3	67	55	
Comments:				

Photos Taken

Photo Number	Location/Description
1	Facing North towards parking space and hillside towards Glenwood Drive
2	Facing South towards Into parking lot of 15 Argonaut
3	Facing West towards towards parking lot of 15 Argonaut
4	Facing East towards planter and neighboring lab facility

Project Number: 6513.0001

Sheet 1 of 2

Project Name: 15 Argonaut ISMND

Test Personnel: Henry Welch

NOISE MEASUREMENT SURVEY

Site Number: 3 Date: 4/21 Time: From 12:50 to 1:06

Site Location: Northwest corner of the project site in the parking lot, west of the exiting building.

Primary Noise Sources: Traffic from Glenwood Drive & Aliso Creek Road. HVAC system from lab facility at 7 Argonaut

Measurement Results

	dBA
L _{eq}	47.3
L _{max}	81.7
L _{min}	40.6
L _{peak}	-
L ₅	50.4
L ₁₀	49.7
L ₅₀	46.5
L ₉₀	43.2
SEL	-

Observed Noise Sources/Events

Time	Noise Source/Event	dBA
12:53	Airplane	
1:01	Man hitting golfballs nearby. Not very loud	no difference

Comments:

Equipment: LXT 2

Settings: A-Weighted ☒ Other ☐

Measured Difference:

Slow ☒ Fast ☐

dBA

Windscreen ☒

Atmospheric Conditions

Maximum Wind Velocity (mph)	Average Wind Velocity (mph)	Temperature (F)	Relative Humidity (%)	
7	3.1	68	59	
Comments:				

Photos Taken

Photo Number	Location/Description
1	Facing North towards hillside and Glenwood Drive
2	Facing South towards staircase and lunch seating area
3	Facing West towards hillside and Aliso Creek Road
4	Facing East towards building and rusted doors

Mobile Construction Activity Noise Calculation

Receiving residential land use									
	Reference (dBA) 50 ft		Usage factor[1]	Distance to Receptor [2]	Ground Effect[3]	Shielding (dBA)[4]	Calculated (dBA)		Energy
Equipment Description	Lmax	Quantity					Lmax	Leq	
Grader	85	1	40	250	1	0	64.0	60.1	1011928.85
Excavator	85	1	40	300	1	0	61.7	57.7	585606.974
Dozer	85	1	40	300	1	0	61.7	57.7	585606.974
Front End Loader	80	1	40	300	1	0	56.7	52.7	185185.185
Backhoe	80	1	40	300	1	0	56.7	52.7	185185.185

Notes:

Lmax[5]	64	Leq	64
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[1] Percentage of time activity occurs each hour based on FHWA usage factors

[2] Distance assumes one piece of equipment adjacent to project boundary and others at the closest reasonable operating distance away

[3] Soft ground terrain between project site and receptor.

[4] Shielding due to terrain or structures

[5] Calculated Lmax is the loudest value.

Distance to Receptor (feet)		8 Hour Average Calculation							
		Time	Hourly Leq	Leq'	0.1*Leq	antiLog			
250 300 350 400 Lunch break 450 500 550 600	Night	12:00 AM	0.0	10.0		1	10		
		1:00 AM	0.0	10.0		1	10		
		2:00 AM	0.0	10.0		1	10		
		3:00 AM	0.0	10.0		1	10		
		4:00 AM	0.0	10.0		1	10		
		5:00 AM	0.0	10.0		1	10		
		6:00 AM	0.0	10.0		1	10		
	Day	7:00 AM	0.0	0.0		0		1	
		8:00 AM	64.1	64.1	6.407138102	2553513.17			
		9:00 AM	63.3	63.3	6.327806547	2127191.29			
		10:00 AM	61.3	61.3	6.126966178	1339572.36			
		11:00 AM	59.5	59.5	5.952990337	897408.827			
		12:00 PM	0.0	0.0		0		1	
		1:00 PM	58.0	58.0	5.799532769	630278.902			
		2:00 PM	56.6	56.6	5.662260298	459473.319			
		3:00 PM	55.4	55.4	5.538082242	345209.105			
		4:00 PM	54.2	54.2	5.42471656	265898.912			
		5:00 PM	0.0	0.0		0		1	
		6:00 PM	0.0	0.0		0		1	
		Evening	7:00 PM	0.0	5.0		0.5	3.16227766	
			8:00 PM	0.0	5.0		0.5	3.16227766	
			9:00 PM	0.0	5.0		0.5	3.16227766	
	Night		10:00 PM	0.0	10.0		1	10	
			11:00 PM	0.0	10.0		1	10	
Notes: *Equipment is measured as operating across the project site				Sum	8618649.37				
				Sum/8	1077331.17				
				Log10(Sum/8)	6.03234923				
				10*Log10(Sum/8)	60.3234923				
				8 Hour Average	60				

Notes: *Equipment is measured as operating across the project site

Receiving residential land use									
	Reference (dBA) 50 ft		Usage factor[1]	Distance to Receptor [2]	Ground Effect[3]	Shielding (dBA)[4]	Calculated (dBA)		Energy
Equipment Description	Lmax	Quantity					Lmax	Leq	
Grader	85	1	40	300	1	0	69.4	57.7	585606.974
Excavator	85	1	40	300	1	0	69.4	57.7	585606.974
Dozer	85	1	40	300	1	0	69.4	57.7	585606.974
Front End Loader	80	1	40	300	1	0	64.4	52.7	185185.185
Backhoe	80	1	40	300	1	0	64.4	52.7	185185.185

Leq 63

Receiving residential land use									
	Reference (dBA) 50 ft		Usage factor[1]	Distance to Receptor [2]	Ground Effect[3]	Shielding (dBA)[4]	Calculated (dBA)		Energy
Equipment Description	Lmax	Quantity					Lmax	Leq	
Grader	85	1	40	350	1	0	68.1	55.7	368778.736
Excavator	85	1	40	350	1	0	68.1	55.7	368778.736
Dozer	85	1	40	350	1	0	68.1	55.7	368778.736
Front End Loader	80	1	40	350	1	0	63.1	50.7	116618.076
Backhoe	80	1	40	350	1	0	63.1	50.7	116618.076

Leq 61

Leq	60
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Leq	58
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Leq	57
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Leq	55
-----	----

Leq	54
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Mobile Construction Activity Noise Calculation

Receiving residential land use									
	Reference (dBA) 50 ft		Usage factor[1]	Distance to Receptor [2]	Ground Effect[3]	Shielding (dBA)[4]	Calculated (dBA)		Energy
Equipment Description	Lmax	Quantity					Lmax	Leq	
Grader	85	1	40	250	1	0	64.0	60.1	1011928.85
Excavator	85	1	40	300	1	0	61.7	57.7	585606.974
Dozer	85	1	40	300	1	0	61.7	57.7	585606.974
Front End Loader	80	1	40	300	1	0	56.7	52.7	185185.185
Backhoe	80	1	40	300	1	0	56.7	52.7	185185.185

Notes:

Lmax[5]	64	Leq	64
---------	----	-----	----

[1] Percentage of time activity occurs each hour based on FHWA usage factors

[2] Distance assumes one piece of equipment adjacent to project boundary and others at the closest reasonable operating distance away

[3] Soft ground terrain between project site and receptor.

[4] Shielding due to terrain or structures

[5] Calculated Lmax is the loudest value.

Distance to Receptor (feet)		8 Hour Average Calculation					
250 300 350 400 Lunch break 450 500 550 600 Notes: *Equipment is measured as operating across the project site	Night	Time	Hourly Leq	Leq'	0.1*Leq	antiLog	
		12:00 AM	0.0	10.0	1	10	
		1:00 AM	0.0	10.0	1	10	
		2:00 AM	0.0	10.0	1	10	
		3:00 AM	0.0	10.0	1	10	
		4:00 AM	0.0	10.0	1	10	
		5:00 AM	0.0	10.0	1	10	
	6:00 AM	0.0	10.0	1	10		
	Day	7:00 AM	0.0	0.0	0	1	
		8:00 AM	64.1	64.1	6.407138102	2553513.17	
		9:00 AM	63.3	63.3	6.327806547	2127191.29	
		10:00 AM	61.3	61.3	6.126966178	1339572.36	
		11:00 AM	59.5	59.5	5.952990337	897408.827	
		12:00 PM	0.0	0.0	0	1	
		1:00 PM	58.0	58.0	5.799532769	630278.902	
		2:00 PM	56.6	56.6	5.662260298	459473.319	
		3:00 PM	55.4	55.4	5.538082242	345209.105	
		4:00 PM	54.2	54.2	5.42471656	265898.912	
		5:00 PM	0.0	0.0	0	1	
		6:00 PM	0.0	0.0	0	1	
		Evening	7:00 PM	0.0	5.0	0.5	3.16227766
			8:00 PM	0.0	5.0	0.5	3.16227766
			9:00 PM	0.0	5.0	0.5	3.16227766
	Night		10:00 PM	0.0	10.0	1	10
11:00 PM		0.0	10.0	1	10		
				Sum	8618649.37		
				Sum/8	1077331.17		
				Log10(Sum/8)	6.03234923		
				10*Log10(Sum/8)	60.3234923		
				8 Hour Average	60		

Notes: *Equipment is measured as operating across the project site

Receiving residential land use									
	Reference (dBA) 50 ft		Usage factor[1]	Distance to Receptor [2]	Ground Effect[3]	Shielding (dBA)[4]	Calculated (dBA)		Energy
Equipment Description	Lmax	Quantity					Lmax	Leq	
Grader	85	1	40	300	1	0	69.4	57.7	585606.974
Excavator	85	1	40	300	1	0	69.4	57.7	585606.974
Dozer	85	1	40	300	1	0	69.4	57.7	585606.974
Front End Loader	80	1	40	300	1	0	64.4	52.7	185185.185
Backhoe	80	1	40	300	1	0	64.4	52.7	185185.185

Leq 63

Receiving residential land use									
	Reference (dBA) 50 ft		Usage factor[1]	Distance to Receptor [2]	Ground Effect[3]	Shielding (dBA)[4]	Calculated (dBA)		Energy
Equipment Description	Lmax	Quantity					Lmax	Leq	
Grader	85	1	40	350	1	0	68.1	55.7	368778.736
Excavator	85	1	40	350	1	0	68.1	55.7	368778.736
Dozer	85	1	40	350	1	0	68.1	55.7	368778.736
Front End Loader	80	1	40	350	1	0	63.1	50.7	116618.076
Backhoe	80	1	40	350	1	0	63.1	50.7	116618.076

Leq 61

Leq	60
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Leq	58
-----	----

Leq	57
-----	----

Leq	55
-----	----

Leq	54
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Receiving residential land use	Noise Level Calculation Prior to Implementation of Noise Attenuation Requirements								
	Reference (dBA) 3 ft			Distance to Receptor	Ground Effect[2]	Shielding (dBA)[3]	Calculated (dBA)		
Equipment Description	Lmax	Quantity	Usage factor[1]				Lmax	Leq	Energy
Residential grade mechanical ventilation equipment	70	1	80	265	1	0	11.6	10.6	11.606897
Residential grade mechanical ventilation equipment	70	1	80	290	1	0	10.4	9.5	8.8564517
Residential grade mechanical ventilation equipment	70	1	80	315	1	0	9.4	8.4	6.9107008
Residential grade mechanical ventilation equipment	70	1	80	340	1	0	8.4	7.4	5.4956239
Notes:							Leq	15	

Notes:

[1] Percentage of time activity occurs each hour
[2] Soft ground terrain between project site and receptor.
[3] Shielding due to structural/soundwall shielding