

**APPENDIX H – NOISE ANALYSIS**

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**Roadway Construction Noise Model (RCNM),Version 1.1**

Report date: 8/3/2013  
 Case Description: Polytechnic High Auditorium Demolition

**---- Receptor #1 ----**

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Homes south side of 15th St	Residential	60	60	60

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16	80.6	70	0	
Front End Loader	No	40	79.1	70	0	
Concrete Saw	No	20	89.6	70	0	
Concrete Saw	No	20	89.6	70	0	
Man Lift	No	20	74.7	70	0	
Man Lift	No	20	74.7	70	0	

Equipment	Calculated (dBA)		Results			
	*Lmax	Leq	Day		Noise Limits (dBA)	
			Lmax	Leq	Lmax	Leq
Crane	77.6	69.7	N/A	N/A	N/A	N/A
Front End Loader	76.2	72.2	N/A	N/A	N/A	N/A
Concrete Saw	86.7	79.7	N/A	N/A	N/A	N/A
Concrete Saw	86.7	79.7	N/A	N/A	N/A	N/A
Man Lift	71.8	64.8	N/A	N/A	N/A	N/A
Man Lift	71.8	64.8	N/A	N/A	N/A	N/A
<b>Total</b>	<b>87</b>	<b>83</b>	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

**Roadway Construction Noise Model (RCNM), Version 1.1**

Report date: 8/3/2013  
 Case Description: Polytechnic High Auditorium Renovation

**---- Receptor #1 ----**

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Homes south side of 15th St	Residential	60	60	60

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Crane	No	16			80.6	70 0
Front End Loader	No	40			79.1	70 0
Front End Loader	No	40			79.1	70 0
Gradall	No	40			83.4	70 0
Gradall	No	40			83.4	70 0
Man Lift	No	20			74.7	70 0
Man Lift	No	20			74.7	70 0

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq
Crane	77.6	69.7	N/A	N/A	N/A	N/A
Front End Loader	76.2	72.2	N/A	N/A	N/A	N/A
Front End Loader	76.2	72.2	N/A	N/A	N/A	N/A
Gradall	80.5	76.5	N/A	N/A	N/A	N/A
Gradall	80.5	76.5	N/A	N/A	N/A	N/A
Man Lift	71.8	64.8	N/A	N/A	N/A	N/A
Man Lift	71.8	64.8	N/A	N/A	N/A	N/A
<b>Total</b>	<b>81</b>	<b>81</b>	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

**Roadway Construction Noise Model (RCNM), Version 1.1**

Report date: 8/3/2013  
 Case Description: Polytechnic High Auditorium Painting

**--- Receptor #1 ---**

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Homes south side of 15th St	Residential	60	60	60

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	70	0

Equipment	Calculated (dBA)			Results		
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq
Compressor (air)	74.7	70.8	N/A	N/A	N/A	N/A
<b>Total</b>	<b>75</b>	<b>71</b>	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

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