

Appendix F: Noise Analysis Supporting Data

Roadway Construction Noise Model (RCNM), Version 1.1															
Report date	5/9/2012														
Case Desc	Chapin 1604.0051														
---- Receptor #1 ----															
Baselines (dBA)															
Description	Land Use	Daytime	Evening	Night											
residence	Residential	60	45	45											
Equipment															
Spec Actual Receptor Estimated															
Lmax Lmax Distance Shielding															
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)									
Grader	No	40	85	764	0										
Dozer	No	40	81.7	764	0										
Tractor	No	40	84	764	0										
Water Truck	No	40	76.5	764	0										
Results															
Calculated (dBA) Noise Limits (dBA) Noise Limit Exceedance (dBA)															
Day Evening Night Day Evening Night															
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Grader	61.3	57.3	75	60	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A	N/A
Dozer	58	54	75	60	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A	N/A
Tractor	60.3	56.3	75	60	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A	N/A
Water Truck	52.8	48.8	75	60	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A	N/A
Total	61.3	61.1	75	60	N/A	N/A	N/A	N/A	None	None	1.1	N/A	N/A	N/A	N/A
*Calculated Lmax is the Loudest value.															
---- Receptor #2 ----															
Baselines (dBA)															
Description	Land Use	Daytime	Evening	Night											
Commercial	Commercial	75	75	75											
Equipment															
Spec Actual Receptor Estimated															
Lmax Lmax Distance Shielding															
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)									
Grader	No	40	85	1180	0										
Dozer	No	40	81.7	1180	0										
Tractor	No	40	84	1180	0										
Water Truck	No	40	76.5	1180	0										
Results															
Calculated (dBA) Noise Limits (dBA) Noise Limit Exceedance (dBA)															
Day Evening Night Day Evening Night															
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Grader	57.5	53.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	54.2	50.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	56.5	52.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Water Truck	49	45.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	57.5	57.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
*Calculated Lmax is the Loudest value.															

Roadway Construction Noise Model (RCNM), Version 1.1															
Report date	5/9/2012														
Case Desc	Chapin 1604.0051 operational														
----- Receptor #1 -----															
Baselines (dBA)															
Description	Land Use	Daytime	Evening	Night											
closest ser	Residential	60	45	45											
Equipment															
		Spec	Actual	Receptor	Estimated										
		Impact	Lmax	Lmax	Distance	Shielding									
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)									
Concrete Batch Plant	No	50	83		896	0									
Concrete Mixer Truck	No	50		78.8	744	0									
Concrete Pump Truck	No	50		81.4	744	0									
Front End Loader	No	80		79.1	823	0									
Results															
Calculated (dBA)			Noise Limits (dBA)						Noise Limit Exceedance (dBA)						
		Day	Evening		Night		Day		Evening		Night				
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Concrete Batch Plant	57.9	54.9	75	60	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A	
Concrete Mixer Truck	55.3	52.3	75	60	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A	
Concrete Pump Truck	57.9	54.9	75	60	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A	
Front End Loader	54.8	53.8	75	60	N/A	N/A	N/A	N/A	None	None	N/A	N/A	N/A	N/A	
Total	57.9	60.1	75	60	N/A	N/A	N/A	N/A	None	0.1	N/A	N/A	N/A	N/A	
*Calculated Lmax is the Loudest value.															

Noise Levels 50 feet from Roadway Centerline*					
Road Segment	Opening Day (2010)		Opening Day (2010) plus Project		
	ADT	dB CNEL	ADT	Total	Project-Specific Increase
Ingomar Grade Road					
w/o Volta Road (south)	2,480	61.6	2480	61.6	0.0
e/o Volta Road (south)	1,410	59.2	1490	59.4	0.2
w/o Volta Road (north)	1,450	59.3	1460	59.3	0.0
e/o Volta Road (north)	1,960	60.6	2060	60.8	0.2
w/o Badger Flat Road	1,540	59.6	1590	59.7	0.1
e/o Badger Flat Road	2,140	61.0	2160	61.0	0.0
Volta Road (South)					
s/o Ingomar Grade Road	800	56.7	810	56.8	0.1
Volta Road (North)					
n/o Ingomar Grade Road	490	54.6	500	54.7	0.1
Badger Flat Road					
n/o Ingomar Grade Road	330	52.9	330	52.9	0.0
s/o Ingomar Grade Road	2,450	61.6	2520	61.7	0.1
*The uniform distance of 50 feet allows for direct comparisons of potential increases or decreases in noise levels based upon various traffic scenarios; however, at this distance, no specific noise standard necessarily applies					



Legend

- Project Site
- # Ambient Noise Reading Location

Source: Michael Brandman Associates 2012.

NORTH

390 195 0 390

Feet

Michael Brandman Associates

Exhibit 1 Noise Reading Locations

Date Time=01/11/12 10:32:00
Sampling Time=2
Record Num= 450
Leq Value=72.9 SEL Value=102.5
MAX Value=87.3
MIN Value=39.0
Freq Weighting=A Time Weighting=Slow
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Date Time=01/11/12 10:51:00
Sampling Time=2
Record Num= 450
Leq Value=81.6 SEL Value=111.2
MAX Value=101.1
MIN Value=44.9
Freq Weighting=A Time Weighting=Slow
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