

**Appendix E Field Noise Measurement Data**

Record: 500

Project Name	East Highline
Observer(s)	Connor Burke
Date	2017-05-05
autoemail	cburke@dudek.com

**Meteorological Conditions**

Temp (F)	100
Humidity % (R.H.)	11
Wind	Calm
Wind Speed (MPH)	2
Wind Direction	East
Sky	Sunny

**Instrument and Calibrator Information**

Instrument Name List	(ENC) Rion NL-52
Instrument Name	(ENC) Rion NL-52
Instrument Name Lookup Key	(ENC) Rion NL-52
Manufacturer	Rion
Model	NL-52
Serial Number	553896
Calibrator Name	(ENC) LD CAL150
Calibrator Name	(ENC) LD CAL150
Calibrator Name Lookup Key	(ENC) LD CAL150
Calibrator Manufacturer	Larson Davis
Calibrator Model	LD CAL150
Calibrator Serial #	5152
Pre-Test (dBA SPL)	94
Post-Test (dBA SPL)	94
Windscreen	Yes
Weighting?	A-WTD
Slow/Fast?	Slow
ANSI?	Yes

**Recordings**

Record #	1
Site ID	ST4
Site Location	Latitude:32.722673, Longitude:-115.335652, Altitude:-10.033813, Speed:0.000000, Horizontal Accuracy:5.000000, Vertical Accuracy:6.000000, Time:12:14:01 PM PDT
Begin (Time)	12:14:00
End (Time)	12:24:00
Leq	48.1
Lmax	69
Lmin	39.6
Other Lx?	L90, L50, L10
L90	41.7
L50	44.3
L10	46
Other (Specify Metric)	
Primary Noise Source	Other

Primary Noise Source Other	Birds
Other Noise Sources (Background)	Birds, Distant Traffic
Other Noise Sources Additional Description	Distant farming noises. One car passed by.
Is the same instrument and calibrator being used as previously notated?	Yes
Are the meteorological conditions the same as previously notated?	Yes

Description / Photos

Site Photos

Photo	
Comments / Description	Facing north.


Recordings

Record #	2
Site ID	ST1
Site Location	Latitude:32.723269, Longitude:-115.284960, Altitude:2.328304, Speed:0.000000, Horizontal Accuracy:5.000000, Vertical Accuracy:3.000000, Time:12:31:19 PM PDT
Begin (Time)	12:31:00
End (Time)	12:41:00
Leq	45.5
Lmax	70
Lmin	37.7
Other Lx?	L90, L50, L10
L90	39.1
L50	39.8
L10	43.5
Other (Specify Metric)	
Primary Noise Source	Other
Primary Noise Source Other	Sprinklers

Other Noise Sources (Background)	Birds, Distant Aircraft, Distant Traffic
Is the same instrument and calibrator being used as previously notated?	Yes
Are the meteorological conditions the same as previously notated?	Yes

## Description / Photos

### Site Photos

Photo	Site Photos
	

Comments / Description	Facing north towards Verde School Rd.
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### Recordings

Record #	3
Site ID	ST2
Site Location	Latitude:32.720450, Longitude:-115.285062, Altitude:1.843506, Speed:0.000000, Horizontal Accuracy:5.000000, Vertical Accuracy:3.000000, Time:12:44:07 PM PDT
Begin (Time)	12:44:00
End (Time)	12:54:00
Leq	44.6
Lmax	59.5
Lmin	28.7
Other Lx?	L90, L50, L10
L90	30.5
L50	37.9
L10	48.7
Other (Specify Metric)	
Primary Noise Source	Other
Primary Noise Source Other	Birds
Other Noise Sources (Background)	Birds, Distant Aircraft, Distant Traffic
Other Noise Sources Additional Description	Distant farming noise.

Is the same instrument and calibrator being used as previously notated?	Yes
Are the meteorological conditions the same as previously notated?	Yes

Description / Photos

Site Photos

Photo	
	
<b>Comments / Description</b>	<i>Facing north.</i>

Recordings

<b>Record #</b>	4
<b>Site ID</b>	ST3
<b>Site Location</b>	<i>Latitude:32.706161, Longitude:-115.275333, Altitude:-4.908447, Speed:0.000000, Horizontal Accuracy:5.000000, Vertical Accuracy:6.000000, Time:1:01:45 PM PDT</i>
<b>Begin (Time)</b>	13:01:00
<b>End (Time)</b>	13:11:00
<b>Leq</b>	38.4
<b>Lmax</b>	50.5
<b>Lmin</b>	32
<b>Other Lx?</b>	<i>L90, L50, L10</i>
<b>L90</b>	33.8
<b>L50</b>	37.5
<b>L10</b>	41
<b>Other (Specify Metric)</b>	
<b>Primary Noise Source</b>	<i>Other</i>
<b>Primary Noise Source Other</b>	<i>Rustling leaves</i>
<b>Other Noise Sources (Background)</b>	<i>Birds, Distant Aircraft, Distant Traffic, Rustling Leaves</i>
<b>Is the same instrument and calibrator being used as previously notated?</b>	Yes

Are the meteorological conditions the same as previously notated?

Yes

Description / Photos

Site Photos

Photo



Comments / Description

Facing north.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 2/21/2018  
 Case Description: East Highline Reservoir\_Grading

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Nearest Receiver 150'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Grader	No	40	85		150	0
Flat Bed Truck	No	40		74.3	150	0

Equipment	Results							
	Calculated (dBA)				Noise Limits (dBA)			
	*Lmax	Leq	Day Lmax	Evening Lmax	Night Lmax	Day Leq	Evening Leq	Night Leq
Grader	75.5	71.5	N/A	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	64.7	60.7	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total</b>	<b>75.5</b>	<b>71.8</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Typical Receiver 1000'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Grader	No	40	85		1000	0
Flat Bed Truck	No	40		74.3	1000	0

Equipment	Results							
	Calculated (dBA)				Noise Limits (dBA)			
	*Lmax	Leq	Day Lmax	Evening Lmax	Night Lmax	Day Leq	Evening Leq	Night Leq
Grader	59	55	N/A	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	48.2	44.3	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total</b>	<b>59</b>	<b>55.4</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 2/21/2018  
 Case Description: East Highline Reservoir\_Paving

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Nearest Receiver 150'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	150	0
Crane	No	16		80.6	150	0
Pumps	No	50		80.9	200	0
Pumps	No	50		80.9	200	0
Pumps	No	50		80.9	250	0
Pumps	No	50		80.9	250	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)					
	*Lmax	Leq	Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	
Concrete Mixer Truck	69.3	65.3	N/A	N/A	N/A	N/A	N/A	
Crane	71	63	N/A	N/A	N/A	N/A	N/A	
Pumps	68.9	65.9	N/A	N/A	N/A	N/A	N/A	
Pumps	68.9	65.9	N/A	N/A	N/A	N/A	N/A	
Pumps	67	64	N/A	N/A	N/A	N/A	N/A	
Pumps	67	64	N/A	N/A	N/A	N/A	N/A	
Pumps	65.4	62.4	N/A	N/A	N/A	N/A	N/A	
Total	71	73	N/A	N/A	N/A	N/A	N/A	

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Typical Receiver 1000'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	1000	0

Crane	No	16	80.6	1000	0
Pumps	No	50	80.9	1000	0
Pumps	No	50	80.9	1000	0
Pumps	No	50	80.9	1000	0
Pumps	No	50	80.9	1000	0
Pumps	No	50	80.9	1000	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)				
	*Lmax	Leq	Day		Evening		Night
			Lmax	Leq	Lmax	Leq	Lmax
Concrete Mixer Truck	52.8	48.8	N/A	N/A	N/A	N/A	N/A
Crane	54.5	46.6	N/A	N/A	N/A	N/A	N/A
Pumps	54.9	51.9	N/A	N/A	N/A	N/A	N/A
Pumps	54.9	51.9	N/A	N/A	N/A	N/A	N/A
Pumps	54.9	51.9	N/A	N/A	N/A	N/A	N/A
Pumps	54.9	51.9	N/A	N/A	N/A	N/A	N/A
Pumps	54.9	51.9	N/A	N/A	N/A	N/A	N/A
Total	54.9	59.5	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: 2/21/2018  
Case Description: East Highline Reservoir\_Site Preparation

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Nearest Receiver 150'	Residential	65	60	55

Description	Device	Impact	Equipment				
			Usage(%)	Spec	Actual	Receptor	Estimated
				Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Dump Truck	No	40		76.5	150	0	
Dump Truck	No	40		76.5	150	0	
Dump Truck	No	40		76.5	200	0	
Dump Truck	No	40		76.5	200	0	
Dump Truck	No	40		76.5	250	0	
Dump Truck	No	40		76.5	250	0	
Dump Truck	No	40		76.5	300	0	
Dump Truck	No	40		76.5	300	0	
Dump Truck	No	40		76.5	350	0	
Dump Truck	No	40		76.5	350	0	
Compactor (ground)	No	20		83.2	400	0	
Dozer	No	40		81.7	400	0	



Dozer	No	40		81.7	450	0
Tractor	No	40	84		450	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)				
	*Lmax	Leq	Day		Evening		Night
			Lmax	Leq	Lmax	Leq	Lmax
Dump Truck	66.9	62.9	N/A	N/A	N/A	N/A	N/A
Dump Truck	66.9	62.9	N/A	N/A	N/A	N/A	N/A
Dump Truck	64.4	60.4	N/A	N/A	N/A	N/A	N/A
Dump Truck	64.4	60.4	N/A	N/A	N/A	N/A	N/A
Dump Truck	62.5	58.5	N/A	N/A	N/A	N/A	N/A
Dump Truck	62.5	58.5	N/A	N/A	N/A	N/A	N/A
Dump Truck	60.9	56.9	N/A	N/A	N/A	N/A	N/A
Dump Truck	60.9	56.9	N/A	N/A	N/A	N/A	N/A
Dump Truck	59.5	55.6	N/A	N/A	N/A	N/A	N/A
Dump Truck	59.5	55.6	N/A	N/A	N/A	N/A	N/A
Compactor (ground)	65.2	58.2	N/A	N/A	N/A	N/A	N/A
Dozer	63.6	59.6	N/A	N/A	N/A	N/A	N/A
Dozer	62.6	58.6	N/A	N/A	N/A	N/A	N/A
Tractor	64.9	60.9	N/A	N/A	N/A	N/A	N/A
Total	66.9	71.1	N/A	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Typical Receiver 1000'	Residential	65	60	55

Description	Device	Usage(%)	Equipment			
			Impact	Spec	Actual	Receptor
				Lmax (dBA)	Lmax (dBA)	Distance (feet)
Dump Truck	No	40		76.5	1000	0
Dump Truck	No	40		76.5	1000	0
Dump Truck	No	40		76.5	1000	0
Dump Truck	No	40		76.5	1000	0
Dump Truck	No	40		76.5	1000	0
Dump Truck	No	40		76.5	1000	0
Dump Truck	No	40		76.5	1000	0
Dump Truck	No	40		76.5	1000	0
Dump Truck	No	40		76.5	1000	0
Dump Truck	No	40		76.5	1000	0
Compactor (ground)	No	20		83.2	1000	0
Dozer	No	40		81.7	1000	0
Dozer	No	40		81.7	1000	0
Tractor	No	40	84		1000	0

Equipment	Results							
	Calculated (dBA)			Noise Limits (dBA)				
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq	Night Lmax	
Dump Truck	50.4	46.5	N/A	N/A	N/A	N/A	N/A	
Dump Truck	50.4	46.5	N/A	N/A	N/A	N/A	N/A	
Dump Truck	50.4	46.5	N/A	N/A	N/A	N/A	N/A	
Dump Truck	50.4	46.5	N/A	N/A	N/A	N/A	N/A	
Dump Truck	50.4	46.5	N/A	N/A	N/A	N/A	N/A	
Dump Truck	50.4	46.5	N/A	N/A	N/A	N/A	N/A	
Dump Truck	50.4	46.5	N/A	N/A	N/A	N/A	N/A	
Dump Truck	50.4	46.5	N/A	N/A	N/A	N/A	N/A	
Dump Truck	50.4	46.5	N/A	N/A	N/A	N/A	N/A	
Dump Truck	50.4	46.5	N/A	N/A	N/A	N/A	N/A	
Compactor (ground)	57.2	50.2	N/A	N/A	N/A	N/A	N/A	
Dozer	55.6	51.7	N/A	N/A	N/A	N/A	N/A	
Dozer	55.6	51.7	N/A	N/A	N/A	N/A	N/A	
Tractor	58	54	N/A	N/A	N/A	N/A	N/A	
Total	58	60.4	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: 2/21/2018

Case Description: East Highline Canal and Measurement Flume\_Building Construction

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Nearest Receiver 150'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	150	0
Generator	No	50		80.6	150	0
Grader	No	40	85		200	0
Flat Bed Truck	No	40		74.3	200	0
Pumps	No	50		80.9	250	0
Compactor (ground)	No	20		83.2	250	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)				
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq	Night Lmax
Generator	71.1	68.1	N/A	N/A	N/A	N/A	N/A
Generator	71.1	68.1	N/A	N/A	N/A	N/A	N/A
Grader	73	69	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	62.2	58.2	N/A	N/A	N/A	N/A	N/A
Pumps	67	64	N/A	N/A	N/A	N/A	N/A
Compactor (ground)	69.3	62.3	N/A	N/A	N/A	N/A	N/A
<b>Total</b>	<b>73</b>	<b>74.1</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Typical Receiver 1000'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	1000	0
Generator	No	50		80.6	1000	0
Grader	No	40	85		1000	0
Flat Bed Truck	No	40		74.3	1000	0

Pumps	No	50	80.9	1000	0
Compactor (ground)	No	20	83.2	1000	0

Equipment	Results						
	Calculated (dBA)		Noise Limits (dBA)				
	*Lmax	Leq	Day	Evening	Night		
Generator	54.6	51.6	N/A	N/A	N/A	N/A	N/A
Generator	54.6	51.6	N/A	N/A	N/A	N/A	N/A
Grader	59	55	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	48.2	44.3	N/A	N/A	N/A	N/A	N/A
Pumps	54.9	51.9	N/A	N/A	N/A	N/A	N/A
Compactor (ground)	57.2	50.2	N/A	N/A	N/A	N/A	N/A
<b>Total</b>	<b>59</b>	<b>59.5</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 2/21/2018  
Case Description: East Highline Canal and Measurement Flume\_Grading

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Nearest Receiver 150'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
			Crane	No	16	80.6
Excavator	No	40	80.7	150	0	
Scraper	No	40	83.6	200	0	
Scraper	No	40	83.6	200	0	

Equipment	Results						
	Calculated (dBA)		Noise Limits (dBA)				
	*Lmax	Leq	Day	Evening	Night		
Crane	71	63	N/A	N/A	N/A	N/A	N/A
Excavator	71.2	67.2	N/A	N/A	N/A	N/A	N/A
Scraper	71.5	67.6	N/A	N/A	N/A	N/A	N/A
Scraper	71.5	67.6	N/A	N/A	N/A	N/A	N/A
<b>Total</b>	<b>71.5</b>	<b>72.7</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Typical Receiver 1000'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	1000	0
Excavator	No	40		80.7	1000	0
Scraper	No	40		83.6	1000	0
Scraper	No	40		83.6	1000	0

Equipment	Results							
	Calculated (dBA)				Noise Limits (dBA)			
	*Lmax	Leq	Day Lmax	Evening Lmax	Day Leq	Evening Leq	Night Lmax	Night Leq
Crane	54.5	46.6	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	54.7	50.7	N/A	N/A	N/A	N/A	N/A	N/A
Scraper	57.6	53.6	N/A	N/A	N/A	N/A	N/A	N/A
Scraper	57.6	53.6	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total</b>	<b>57.6</b>	<b>57.9</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 2/21/2018  
Case Description: East Highline Canal and Measurement Flume\_Paving

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Nearest Receiver 150'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	150	0
Pumps	No	50		80.9	150	0
Pumps	No	50		80.9	200	0

Equipment	Results							
	Calculated (dBA)				Noise Limits (dBA)			
	*Lmax	Leq	Day Lmax	Evening Lmax	Day Leq	Evening Leq	Night Lmax	Night Leq
Concrete Mixer Truck	69.3	65.3	N/A	N/A	N/A	N/A	N/A	N/A
Pumps	71.4	68.4	N/A	N/A	N/A	N/A	N/A	N/A

Pumps		68.9	65.9	N/A	N/A	N/A	N/A	N/A
	Total	71.4	71.5	N/A	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Typical Receiver 1000'	Residential	65	60	55

Description	Device	Impact	Usage(%)	Equipment			Estimated Shielding (dBA)
				Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	
Concrete Mixer Truck	No	No	40		78.8	1000	0
Pumps	No	No	50		80.9	1000	0
Pumps	No	No	50		80.9	1000	0

Equipment	Calculated (dBA)	Results						
		Day		Evening		Night		
		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Concrete Mixer Truck	52.8	48.8	N/A	N/A	N/A	N/A	N/A	N/A
Pumps	54.9	51.9	N/A	N/A	N/A	N/A	N/A	N/A
Pumps	54.9	51.9	N/A	N/A	N/A	N/A	N/A	N/A
	Total	54.9	55.9	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: 2/21/2018  
 Case Description: East Highline Sedimentation Basin\_Building Construction

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Nearest Receiver 150'	Residential	65	60	55

Description	Impact	Device	Usage(%)	Equipment			
				Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No		50		80.6	150	0
Generator	No		50		80.6	150	0
Grader	No		40	85		200	0
Flat Bed Truck	No		40		74.3	200	0
Compactor (ground)	No		20		83.2	250	0
Pumps	No		50		80.9	250	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)				
	*Lmax	Leq	Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax
Generator	71.1	68.1	N/A	N/A	N/A	N/A	N/A
Generator	71.1	68.1	N/A	N/A	N/A	N/A	N/A
Grader	73	69	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	62.2	58.2	N/A	N/A	N/A	N/A	N/A
Compactor (ground)	69.3	62.3	N/A	N/A	N/A	N/A	N/A
Pumps	67	64	N/A	N/A	N/A	N/A	N/A
Total	73	74.1	N/A	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Typical Receiver 1000'	Residential	65	60	55

Description	Impact	Device	Usage(%)	Equipment			
				Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No		50		80.6	1000	0
Generator	No		50		80.6	1000	0
Grader	No		40	85		1000	0
Flat Bed Truck	No		40		74.3	1000	0

Compactor (ground)	No	20	83.2	1000	0
Pumps	No	50	80.9	1000	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)			
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Night Lmax
Generator	54.6	51.6	N/A	N/A	N/A	N/A
Generator	54.6	51.6	N/A	N/A	N/A	N/A
Grader	59	55	N/A	N/A	N/A	N/A
Flat Bed Truck	48.2	44.3	N/A	N/A	N/A	N/A
Compactor (ground)	57.2	50.2	N/A	N/A	N/A	N/A
Pumps	54.9	51.9	N/A	N/A	N/A	N/A
Total	59	59.5	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 2/21/2018  
Case Description: East Highline Sedimentation Basin\_Grading

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Nearest Receiver 150'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40		80.7	150	0
Flat Bed Truck	No	40		74.3	150	0
Flat Bed Truck	No	40		74.3	200	0
Flat Bed Truck	No	40		74.3	200	0
Flat Bed Truck	No	40		74.3	250	0
Flat Bed Truck	No	40		74.3	250	0
Flat Bed Truck	No	40		74.3	300	0
Flat Bed Truck	No	40		74.3	300	0
Flat Bed Truck	No	40		74.3	350	0
Flat Bed Truck	No	40		74.3	350	0
Flat Bed Truck	No	40		74.3	400	0
Dozer	No	40		81.7	400	0
Tractor	No	40	84		450	0

Results

Calculated (dBA)	Noise Limits (dBA)
------------------	--------------------



Equipment	*Lmax	Leq	Day		Evening		Night
			Lmax	Leq	Lmax	Leq	Lmax
Excavator	71.2	67.2	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	64.7	60.7	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	62.2	58.2	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	62.2	58.2	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	60.3	56.3	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	60.3	56.3	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	58.7	54.7	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	58.7	54.7	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	57.3	53.4	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	57.3	53.4	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	56.2	52.2	N/A	N/A	N/A	N/A	N/A
Dozer	63.6	59.6	N/A	N/A	N/A	N/A	N/A
Tractor	64.9	60.9	N/A	N/A	N/A	N/A	N/A
Total	71.2	70.8	N/A	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Typical Receiver 1000'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40		80.7	1000	0
Flat Bed Truck	No	40		74.3	1000	0
Flat Bed Truck	No	40		74.3	1000	0
Flat Bed Truck	No	40		74.3	1000	0
Flat Bed Truck	No	40		74.3	1000	0
Flat Bed Truck	No	40		74.3	1000	0
Flat Bed Truck	No	40		74.3	1000	0
Flat Bed Truck	No	40		74.3	1000	0
Flat Bed Truck	No	40		74.3	1000	0
Flat Bed Truck	No	40		74.3	1000	0
Flat Bed Truck	No	40		74.3	1000	0
Flat Bed Truck	No	40		74.3	1000	0
Dozer	No	40		81.7	1000	0
Tractor	No	40	84		1000	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)				
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq	Night Lmax
Excavator	54.7	50.7	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	48.2	44.3	N/A	N/A	N/A	N/A	N/A



Description	Impact Device	Usage(%)	Equipment			
			Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	1000	0
Pumps	No	50		80.9	1000	0
Pumps	No	50		80.9	1000	0

Equipment	Results						
	Calculated (dBA)			Noise Limits (dBA)			
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq	Night Lmax
Concrete Mixer Truck	52.8	48.8	N/A	N/A	N/A	N/A	N/A
Pumps	54.9	51.9	N/A	N/A	N/A	N/A	N/A
Pumps	54.9	51.9	N/A	N/A	N/A	N/A	N/A
Total	54.9	55.9	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: 2/21/2018

Case Description: East Highline Structures\_Building Constructrion

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Nearest Receiver 150'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	150	0
Generator	No	50		80.6	150	0
Grader	No	40	85		200	0
Flat Bed Truck	No	40		74.3	200	0
Compactor (ground)	No	20		83.2	250	0
Pumps	No	50		80.9	250	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)					
	*Lmax	Leq	Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	
Generator	71.1	68.1	N/A	N/A	N/A	N/A	N/A	
Generator	71.1	68.1	N/A	N/A	N/A	N/A	N/A	
Grader	73	69	N/A	N/A	N/A	N/A	N/A	
Flat Bed Truck	62.2	58.2	N/A	N/A	N/A	N/A	N/A	
Compactor (ground)	69.3	62.3	N/A	N/A	N/A	N/A	N/A	
Pumps	67	64	N/A	N/A	N/A	N/A	N/A	
Total	73	74.1	N/A	N/A	N/A	N/A	N/A	

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Typical Receiver 1000'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	1000	0
Generator	No	50		80.6	1000	0
Grader	No	40	85		1000	0
Flat Bed Truck	No	40		74.3	1000	0

Compactor (ground)	No	20	83.2	1000	0
Pumps	No	50	80.9	1000	0

Equipment	Results						
	Calculated (dBA)			Noise Limits (dBA)			
	*Lmax	Leq	Day	Evening	Night		
Generator	54.6	51.6	N/A	N/A	N/A	N/A	N/A
Generator	54.6	51.6	N/A	N/A	N/A	N/A	N/A
Grader	59	55	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	48.2	44.3	N/A	N/A	N/A	N/A	N/A
Compactor (ground)	57.2	50.2	N/A	N/A	N/A	N/A	N/A
Pumps	54.9	51.9	N/A	N/A	N/A	N/A	N/A
Total	59	59.5	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: 2/21/2018  
Case Description: East Highline Structures\_Grading

---- Receptor #1 ----				
Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Nearest Receiver 150'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
			Excavator	No	40	80.7
Flat Bed Truck	No	40	74.3	150	0	
Flat Bed Truck	No	40	74.3	200	0	
Flat Bed Truck	No	40	74.3	200	0	
Flat Bed Truck	No	40	74.3	250	0	
Flat Bed Truck	No	40	74.3	250	0	
Flat Bed Truck	No	40	74.3	300	0	
Flat Bed Truck	No	40	74.3	300	0	
Flat Bed Truck	No	40	74.3	350	0	
Flat Bed Truck	No	40	74.3	350	0	
Flat Bed Truck	No	40	74.3	400	0	
Dozer	No	40	81.7	400	0	
Tractor	No	40	84	450	0	

Calculated (dBA)	Results		
	Noise Limits (dBA)		
	Day	Evening	Night

Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Excavator	71.2	67.2	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	64.7	60.7	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	62.2	58.2	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	62.2	58.2	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	60.3	56.3	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	60.3	56.3	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	58.7	54.7	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	58.7	54.7	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	57.3	53.4	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	57.3	53.4	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	56.2	52.2	N/A	N/A	N/A	N/A	N/A
Dozer	63.6	59.6	N/A	N/A	N/A	N/A	N/A
Tractor	64.9	60.9	N/A	N/A	N/A	N/A	N/A
Total	71.2	70.8	N/A	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Typical Receiver 1000'	Residential	65	60	55

Equipment

Description	Impact Device	Usage(%)	Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Excavator	No	40		80.7	1000	0
Flat Bed Truck	No	40		74.3	1000	0
Flat Bed Truck	No	40		74.3	1000	0
Flat Bed Truck	No	40		74.3	1000	0
Flat Bed Truck	No	40		74.3	1000	0
Flat Bed Truck	No	40		74.3	1000	0
Flat Bed Truck	No	40		74.3	1000	0
Flat Bed Truck	No	40		74.3	1000	0
Flat Bed Truck	No	40		74.3	1000	0
Flat Bed Truck	No	40		74.3	1000	0
Flat Bed Truck	No	40		74.3	1000	0
Dozer	No	40		81.7	1000	0
Tractor	No	40	84		1000	0

Results

Equipment	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Lmax	Day	Evening	Night
Excavator	54.7	50.7	N/A	Leq	Lmax	Leq
Flat Bed Truck	48.2	44.3	N/A	N/A	N/A	N/A
Flat Bed Truck	48.2	44.3	N/A	N/A	N/A	N/A

Flat Bed Truck	48.2	44.3	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	48.2	44.3	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	48.2	44.3	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	48.2	44.3	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	48.2	44.3	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	48.2	44.3	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	48.2	44.3	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	48.2	44.3	N/A	N/A	N/A	N/A	N/A
Dozer	55.6	51.7	N/A	N/A	N/A	N/A	N/A
Tractor	58	54	N/A	N/A	N/A	N/A	N/A
Total	58	58.9	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: 2/21/2018  
Case Description: East Highline Structures\_Paving

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)			Equipment					
		Daytime	Evening	Night	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Nearest Receiver 150'	Residential	65	60	55	No	20		83.2	150	0
Compactor (ground)					No	50		80.9	150	0
Pumps					No	50		80.9	200	0
Results										
Equipment		Calculated (dBA)		Noise Limits (dBA)						
		*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq	Night Lmax		
Compactor (ground)		73.7	66.7	N/A	N/A	N/A	N/A	N/A	N/A	
Pumps		71.4	68.4	N/A	N/A	N/A	N/A	N/A	N/A	
Pumps		68.9	65.9	N/A	N/A	N/A	N/A	N/A	N/A	
Total		73.7	71.9	N/A	N/A	N/A	N/A	N/A	N/A	

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)			Equipment					
		Daytime	Evening	Night	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Typical Receiver 1000'	Residential	65	60	55						

Description	Impact	Usage(%)	Spec	Actual	Receptor	Estimated
			Lmax	Lmax	Distance	Shielding
Device			(dBA)	(dBA)	(feet)	(dBA)
Compactor (ground)	No	20		83.2	1000	0
Pumps	No	50		80.9	1000	0
Pumps	No	50		80.9	1000	0

Equipment	Results						
	Calculated (dBA)			Noise Limits (dBA)			
	*Lmax	Leq	Day	Leq	Evening	Leq	Night
Compactor (ground)	57.2	50.2	N/A	N/A	N/A	N/A	N/A
Pumps	54.9	51.9	N/A	N/A	N/A	N/A	N/A
Pumps	54.9	51.9	N/A	N/A	N/A	N/A	N/A
Total	57.2	56.2	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: 2/21/2018  
 Case Description: East Highline Canal Tie-Ins\_Grading

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Nearest Receiver 150'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Drill Rig Truck	No	20		79.1	150	0
Excavator	No	40		80.7	150	0
Generator	No	50		80.6	200	0
Pumps	No	50		80.9	250	0
Compactor (ground)	No	20		83.2	200	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)				
	*Lmax	Leq	Day		Evening		Night
			Lmax	Leq	Lmax	Leq	Lmax
Drill Rig Truck	69.6	62.6	N/A	N/A	N/A	N/A	N/A
Excavator	71.2	67.2	N/A	N/A	N/A	N/A	N/A
Generator	68.6	65.6	N/A	N/A	N/A	N/A	N/A
Pumps	67	64	N/A	N/A	N/A	N/A	N/A
Compactor (ground)	71.2	64.2	N/A	N/A	N/A	N/A	N/A
Total	71.2	72	N/A	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Typical Receiver 1000'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Drill Rig Truck	No	20		79.1	1000	0
Excavator	No	40		80.7	1000	0
Generator	No	50		80.6	1000	0
Pumps	No	50		80.9	1000	0
Compactor (ground)	No	20		83.2	1000	0

Equipment	Results						
	Calculated (dBA)			Noise Limits (dBA)			
	*Lmax	Leq	Day	Evening	Night		
Drill Rig Truck	53.1	46.1	N/A	N/A	N/A	N/A	N/A
Excavator	54.7	50.7	N/A	N/A	N/A	N/A	N/A
Generator	54.6	51.6	N/A	N/A	N/A	N/A	N/A
Pumps	54.9	51.9	N/A	N/A	N/A	N/A	N/A
Compactor (ground)	57.2	50.2	N/A	N/A	N/A	N/A	N/A
<b>Total</b>	<b>57.2</b>	<b>57.5</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

\*Calculated Lmax is the Loudest value.

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

Report date: 2/21/2018  
Case Description: East Highline Canal Tie-Ins\_Paving

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Nearest Receiver 150'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	150	0
Pumps	No	50		80.9	150	0
Pumps	No	50		80.9	200	0

Equipment	Results						
	Calculated (dBA)			Noise Limits (dBA)			
	*Lmax	Leq	Day	Evening	Night		
Generator	71.1	68.1	N/A	N/A	N/A	N/A	N/A
Pumps	71.4	68.4	N/A	N/A	N/A	N/A	N/A
Pumps	68.9	65.9	N/A	N/A	N/A	N/A	N/A
<b>Total</b>	<b>71.4</b>	<b>72.4</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Typical Receiver 1000'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)

Description	Impact Device	Usage(%)	Lmax	Lmax	Distance	Shielding
			(dBA)	(dBA)	(feet)	(dBA)
Generator	No	50		80.6	1000	0
Pumps	No	50		80.9	1000	0
Pumps	No	50		80.9	1000	0

Equipment	Results						
	Calculated (dBA)			Noise Limits (dBA)			
	*Lmax	Leq	Day	Leq	Evening	Leq	Night
Generator	54.6	51.6	N/A	N/A	N/A	N/A	N/A
Pumps	54.9	51.9	N/A	N/A	N/A	N/A	N/A
Pumps	54.9	51.9	N/A	N/A	N/A	N/A	N/A
Total	54.9	56.6	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: 2/21/2018  
Case Description: East Highline Canal Tie-Ins\_Site Preparation

---- Receptor #1 ----				
Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Nearest Receiver 150'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec	Actual	Receptor	Estimated
			Lmax	Lmax	Distance	Shielding
Flat Bed Truck	No	40		74.3	150	0
Tractor	No	40	84		150	0

Equipment	Results						
	Calculated (dBA)			Noise Limits (dBA)			
	*Lmax	Leq	Day	Leq	Evening	Leq	Night
Flat Bed Truck	64.7	60.7	N/A	N/A	N/A	N/A	N/A
Tractor	74.5	70.5	N/A	N/A	N/A	N/A	N/A
Total	74.5	70.9	N/A	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----				
Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Typical Receiver 1000'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Flat Bed Truck	No	40		74.3	1000	0
Tractor	No	40	84		1000	0

Equipment	Results						
	Calculated (dBA)			Noise Limits (dBA)			
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq	Night Lmax
Flat Bed Truck	48.2	44.3	N/A	N/A	N/A	N/A	N/A
Tractor	58	54	N/A	N/A	N/A	N/A	N/A
Total	58	54.4	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: 2/21/2018  
 Case Description: East Highline Highway 98 Detour\_Grading

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Nearest Receiver 150'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Grader	No	40	85		150	0
Flat Bed Truck	No	40		74.3	150	0
Compactor (ground)	No	20		83.2	200	0
Scraper	No	40		83.6	200	0
Scraper	No	40		83.6	250	0

Results

Equipment	Calculated (dBA)				Noise Limits (dBA)			
	*Lmax	Leq	Day		Evening		Night	
			Lmax	Leq	Lmax	Leq		
Grader	75.5	71.5	N/A	N/A	N/A	N/A	N/A	
Flat Bed Truck	64.7	60.7	N/A	N/A	N/A	N/A	N/A	
Compactor (ground)	71.2	64.2	N/A	N/A	N/A	N/A	N/A	
Scraper	71.5	67.6	N/A	N/A	N/A	N/A	N/A	
Scraper	69.6	65.6	N/A	N/A	N/A	N/A	N/A	
Total	75.5	74.3	N/A	N/A	N/A	N/A	N/A	

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Typical Receiver 1000'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Grader	No	40	85		1000	0
Flat Bed Truck	No	40		74.3	1000	0
Compactor (ground)	No	20		83.2	1000	0
Scraper	No	40		83.6	1000	0
Scraper	No	40		83.6	1000	0

Equipment	Results						
	Calculated (dBA)			Noise Limits (dBA)			
	*Lmax	Leq	Day	Evening	Night		
Grader	59	55	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	48.2	44.3	N/A	N/A	N/A	N/A	N/A
Compactor (ground)	57.2	50.2	N/A	N/A	N/A	N/A	N/A
Scraper	57.6	53.6	N/A	N/A	N/A	N/A	N/A
Scraper	57.6	53.6	N/A	N/A	N/A	N/A	N/A
Total	59	59.6	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: 2/21/2018  
Case Description: East Highline Highway 98 Detour\_Paving

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Nearest Receiver 150'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Paver	No	50		77.2	150	0
Roller	No	20		80	150	0

Equipment	Results						
	Calculated (dBA)			Noise Limits (dBA)			
	*Lmax	Leq	Day	Evening	Night		
Paver	67.7	64.7	N/A	N/A	N/A	N/A	N/A
Roller	70.5	63.5	N/A	N/A	N/A	N/A	N/A
Total	70.5	67.1	N/A	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Typical Receiver 1000'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)

Paver	No	50	77.2	1000	0
Roller	No	20	80	1000	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)				
	*Lmax	Leq	Day	Leq	Evening	Leq	Night
			Lmax		Lmax		Lmax
Paver	51.2	48.2	N/A	N/A	N/A	N/A	N/A
Roller	54	47	N/A	N/A	N/A	N/A	N/A
Total	54	50.6	N/A	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.