

FIELD DATA REPORT

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	

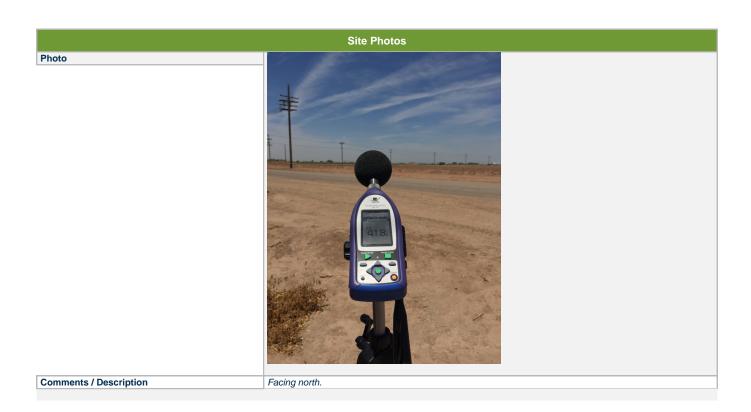
Instrument and Calibrator Information			
Instrument Name List	(ENC) Rion NL-52		
Instrument Name	(ENC) Rion NL-52		
Instrument Name Lookup Key	(ENC) Rion NL-52		
Manufacturer	Rion		
Model	NL-52		
Serial Number	553896		
Calibrator Name	(ENC) LD CAL150		
Calibrator Name	(ENC) LD CAL150		
Calibrator Name 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			



FIELD DATA REPORT

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



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	



FIELD DATA REPORT

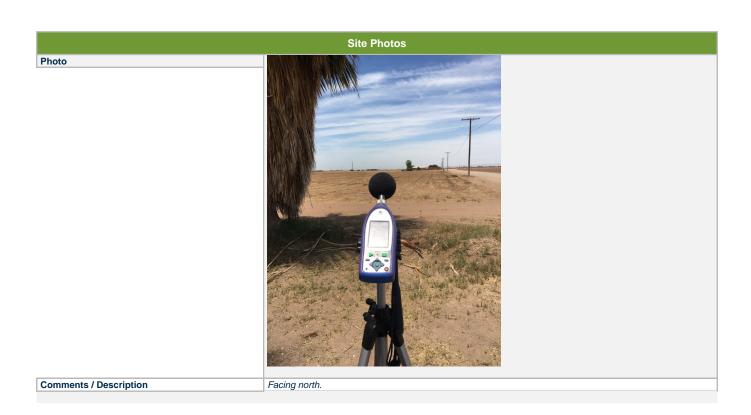
Other Noise Sources (Background)	Birds, Distant Aircraft, Distant Traffic
Is the same instrument and calibrator being used	Yes
as previously notated?	
Are the meteorological conditions the same as	Yes
previously notated?	



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.			



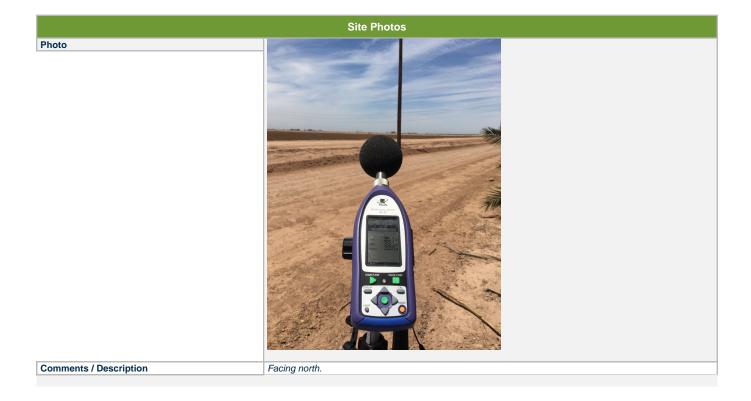
Is the same instrument and calibrator being used	Yes
as previously notated?	
Are the meteorological conditions the same as	Yes
previously notated?	



Recordings					
Record #	4				
Site ID	ST3				
Site Location	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				
Begin (Time)	13:01:00				
End (Time)	13:11:00				
Leq	38.4				
Lmax	50.5				
Lmin	32				
Other Lx?	L90, L50, L10				
L90	33.8				
L50	37.5				
L10	41				
Other (Specify Metric)					
Primary Noise Source	Other				
Primary Noise Source Other	Rustling leaves				
Other Noise Sources (Background)	Birds, Distant Aircraft, Distant Traffic, Rustling Leaves				
Is the same instrument and calibrator being used	Yes				
as previously notated?					

Are the meteorological conditions the same as previously notated?

Yes



Report date:	2/21/2018										
Case Description:	East Highline Rese	ervoir_Gradi	ng								
					P.o.	cont	or #1				
		Baselines ((4BV)		Ke	cepti	or #1				
Description	Land Use	Daytime		n or	Night						
Nearest Receiver 150'	Residential	65		ig 60	_	55					
Nearest Neceiver 150	Residential	03	,	00		33					
					Equipr	nent					
					Spec		Actual	Recep	tor	Estimate	d
		Impact			Lmax		Lmax	Distan	ice	Shielding	J
Description		Device	Usage	(%)	(dBA)		(dBA)	(feet)		(dBA)	
Grader		No	· ·	40		85	, ,	, ,	150	-	0
Flat Bed Truck		No		40			74.3	}	150		0
					Pocul+	•					
		Calculated	(dBA)		Result	5	Noise Limi	ts (dBA)		
			(0.27.1)		Day			Evenir			Night
Equipment		*Lmax	Leq		Lmax		Leq	Lmax	.0	Leq	Lmax
Grader		75.5	•	71 5	N/A		N/A	N/A		N/A	N/A
Flat Bed Truck		64.7			N/A		N/A	N/A		N/A	N/A
That Bed Track	Total	75.5			N/A		N/A	N/A		N/A	N/A
	10141	*Calculate			•	est v	-	14,71		14//	14,71
					Re	cepto	or #2				
		Baselines (
Description	Land Use	Daytime	Evenir	ng	Night						
Typical Receiver 1000'	Residential	65	•	60		55					
					Equipr	nent					
					Spec		Actual	Recep	tor	Estimate	d
		Impact			Lmax		Lmax	Distar		Shielding	
Description		Device	Usage	(%)			(dBA)	(feet)		(dBA)	,
Grader		No	000.80	40	-	85	` '	-	1000	• •	0
Flat Bed Truck		No		40		03	74.3		1000		0
That Bed Track		110		70			74.5		1000	,	Ü
					Result	S					
		Calculated	(dBA)				Noise Limi	ts (dBA	.)		
					Day			Evenir	ng		Night
Equipment		*Lmax	Leq		Lmax		Leq	Lmax		Leq	Lmax
Grader		59)	55	N/A		N/A	N/A		N/A	N/A
Flat Bed Truck		48.2	2	44.3	N/A		N/A	N/A		N/A	N/A
	Total	59)	55.4	N/A		N/A	N/A		N/A	N/A
		*Calculate	d Lmax	is th	e Loud	est v	alue.				
		-3.03.00				•	- · - · - ·				

Report date:	2/21/2018
--------------	-----------

Description

Concrete Mixer Truck

Case Description: East Highline Reservoir_Paving

						Receptor #1							
		Baselines	(dBA)										
Description	Land Use	Daytime	Even	ing	Night								
Nearest Receiver 150'	Residential	, 6!		60	_	55							
					Equipr	nent							
					Spec		Actual	Rece	ptor	Estimated	b		
		Impact			Lmax		Lmax	Dista	nce	Shielding			
Description		Device	Usag	e(%)	(dBA)		(dBA)	(feet))	(dBA)			
Concrete Mixer Truck		No		40			7	8.8	150)	0		
Crane		No		16			8	0.6	150)	0		
Pumps		No		50			8	0.9	200)	0		
Pumps		No		50			8	0.9	200)	0		
Pumps		No		50			8	0.9	250)	0		
Pumps		No		50			8	0.9	250)	0		
Pumps		No		50			8	0.9	300		0		
•													
					Result	S							
		Calculated	d (dBA)				Noise Li	imits (dBA	۹)				
					Day			Eveni	ing		Night		
Equipment		*Lmax	Leq		Lmax		Leq	Lmax	_	Leq	Lmax		
Concrete Mixer Truck		69.3	•	65.3	N/A		N/A	N/A		N/A	N/A		
Crane		7:	1		N/A		N/A	N/A		N/A	N/A		
Pumps		68.9	9		N/A		N/A	N/A		N/A	N/A		
Pumps		68.9	9		N/A		N/A	N/A		N/A	N/A		
Pumps		67			N/A		, N/A	N/A		N/A	N/A		
Pumps		67			N/A		N/A	N/A		N/A	N/A		
Pumps		65.4			N/A		N/A	N/A		N/A	N/A		
	Total	7:			N/A		N/A	N/A		N/A	N/A		
		*Calculate			-			,		,	,,,		
					Re	cepto	or #2						
		Baselines	(dBA)			•							
Description	Land Use	Daytime	Even	ing	Night								
Typical Receiver 1000'	Residential	, 6!		60	_	55							
						nent							
					Spec		Actual	Rece	ptor	Estimated	t		
		Impact			Lmax		Lmax	Dista	nce	Shielding			

Usage(%) (dBA)

40

Device

No

(dBA)

(dBA)

0

(feet)

1000

78.8

	No		16		8	0.6	1000	0
	No		50		8	0.9	1000	0
	No		50	50		0.9	1000	0
	No		50		8	0.9	1000	0
	No		50		8	0.9	1000	0
	No		50		8	0.9	1000	0
				Results				
	Calculated	d (dBA)	1		Noise L	imits (dB	A)	
		. (,		Dav		•	•	Night
	*Lmax	Lea		•	Lea		· ·	Lmax
		•	48.8		-		•	N/A
	54.	5		-				N/A
	54.	9		-				N/A
	54.	9		-				N/A
				-				N/A
	54.	9		-				N/A
	54.	9						N/A
Total	54.	9		-	N/A	N/A	N/A	N/A
	Total	No No No No Calculated *Lmax 52. 54. 54. 54. 54.	No No No No No Calculated (dBA) *Lmax Leq 52.8 54.5 54.9 54.9 54.9 54.9 54.9	No 50 Calculated (dBA) *Lmax Leq 52.8 48.8 54.5 46.6 54.9 51.9 54.9 51.9 54.9 51.9 54.9 51.9 54.9 51.9	No 50 Results Calculated (dBA) Day *Lmax Leq Lmax 52.8 48.8 N/A 54.5 46.6 N/A 54.9 51.9 N/A	No 50 8 Results Calculated (dBA) Noise Li Day *Lmax Leq Lmax Leq 52.8 48.8 N/A N/A 54.5 46.6 N/A N/A 54.9 51.9 N/A N/A	No 50 80.9 Results Calculated (dBA) Noise Limits (dB Day Even *Lmax Leq Lmax 52.8 48.8 N/A N/A N/A 54.5 46.6 N/A N/A N/A 54.9 51.9 N/A N/A N/A	No 50 80.9 1000 No 50 80.9 1000 No 50 80.9 1000 No 50 80.9 1000 Results Calculated (dBA) Noise Limits (dBA) Day Evening *Lmax Leq Lmax Leq 52.8 48.8 N/A N/A N/A N/A 54.5 46.6 N/A N/A N/A N/A 54.9 51.9 N/A N/A N/A N/A

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 2/21/2018

Case Description: East Highline Reservoir_Site Preparation

---- Receptor #1 ----

Baselines (dBA)
Description Land Use Daytime Evening

Description Land Use Daytime Evening Night
Nearest Receiver 150' Residential 65 60 55

			Equipment					
			Spec	Actual	Receptor	Estimated		
	Impact		Lmax	Lmax	Distance	Shielding		
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)		
Dump Truck	No	40	1	76.5	150	0		
Dump Truck	No	40	1	76.5	150	0		
Dump Truck	No	40	1	76.5	200	0		
Dump Truck	No	40	1	76.5	200	0		
Dump Truck	No	40	1	76.5	250	0		
Dump Truck	No	40)	76.5	250	0		
Dump Truck	No	40)	76.5	300	0		
Dump Truck	No	40	1	76.5	300	0		
Dump Truck	No	40	1	76.5	350	0		
Dump Truck	No	40)	76.5	350	0		
Compactor (ground)	No	20	1	83.2	400	0		
Dozer	No	40	1	81.7	400	0		

Dozer		No		40			81.7	450)	0	
Tractor		No		40		84		45)	0	
					Results						
		Calculated	d (dBA)			Nois	e Limit	s (dBA)			
					Day			Evening		Ni	ight
Equipment		*Lmax	Leq		Lmax	Leq		Lmax	Leq	Ln	nax
Dump Truck		66.9		2.9	N/A	N/A		N/A	N/A	N,	/A
Dump Truck		66.9	9 6	2.9	N/A	N/A		N/A	N/A	N,	/A
Dump Truck		64.4	4 6	0.4	N/A	N/A		N/A	N/A	N,	/A
Dump Truck		64.4	4 6	0.4	N/A	N/A		N/A	N/A	N,	/A
Dump Truck		62.5	5 5	8.5	N/A	N/A		N/A	N/A	N,	/A
Dump Truck		62.5	5 5	8.5	N/A	N/A		N/A	N/A	N,	/A
Dump Truck		60.9	9 5	6.9	N/A	N/A		N/A	N/A	N,	/A
Dump Truck		60.9	9 5	6.9	N/A	N/A		N/A	N/A	N,	/A
Dump Truck		59.5	5 5	5.6	N/A	N/A		N/A	N/A	N,	/A
Dump Truck		59.5	5 5	5.6	N/A	N/A		N/A	N/A	N,	/A
Compactor (ground)		65.2	2 5	8.2	N/A	N/A		N/A	N/A	N,	/A
Dozer		63.6	6 5	9.6	N/A	N/A		N/A	N/A	N,	/A
Dozer		62.6	6 5	8.6	N/A	N/A		N/A	N/A	N,	/A
Tractor		64.9	9 6	0.9	N/A	N/A		N/A	N/A	N,	/A
	Total	66.9	9 7	1.1	N/A	N/A		N/A	N/A	N,	/A
		*Calculate	ed Lmax i	s the	e Loude	st value.					
		5 l:	(15.4)		Rec	eptor #2					
Description	1 111	Baselines	-		N.C. L.						
Description Table 1 Page 1 and 1 0001	Land Use	Daytime	Evening -		Night						
Typical Receiver 1000'	Residential	65	5	60		55					
					Equipm	ent					
					Spec		ıal	Receptor	Estimate	ed	
		Impact			Lmax	Lma		Distance	Shieldin		
Description		Device	Usage(9	%)	(dBA)	(dBA	۸)	(feet)	(dBA)		
Dump Truck		No		40		•	76.5	100		0	
Dump Truck		No		40			76.5	100)	0	
Dump Truck		No		40			76.5	100)	0	
Dump Truck		No		40			76.5	100		0	
Dump Truck		No		40			76.5	100)	0	
Dump Truck		No		40			76.5	100)	0	
Dump Truck		No		40			76.5			0	
Dump Truck		No		40			76.5	100		0	
Dump Truck		No		40			76.5	100		0	
Dump Truck		No		40			76.5	100		0	
Compactor (ground)		No		20			83.2			0	
Dozer		No		40			81.7			0	
Dozer		No		40			81.7			0	
_							-		_	_	

No

Tractor

				Results				
	Calculated	d (dBA)			Noise Lir	nits (dBA)		
				Day		Evening		Night
Equipment	*Lmax	Leq		Lmax	Leq	Lmax	Leq	Lmax
Dump Truck	50.4	4	46.5	N/A	N/A	N/A	N/A	N/A
Dump Truck	50.4	1	46.5	N/A	N/A	N/A	N/A	N/A
Dump Truck	50.4	4	46.5	N/A	N/A	N/A	N/A	N/A
Dump Truck	50.4	1	46.5	N/A	N/A	N/A	N/A	N/A
Dump Truck	50.4	1	46.5	N/A	N/A	N/A	N/A	N/A
Dump Truck	50.4	1	46.5	N/A	N/A	N/A	N/A	N/A
Dump Truck	50.4	1	46.5	N/A	N/A	N/A	N/A	N/A
Dump Truck	50.4	1	46.5	N/A	N/A	N/A	N/A	N/A
Dump Truck	50.4	1	46.5	N/A	N/A	N/A	N/A	N/A
Dump Truck	50.4	1	46.5	N/A	N/A	N/A	N/A	N/A
Compactor (ground)	57.2	2	50.2	N/A	N/A	N/A	N/A	N/A
Dozer	55.6	õ	51.7	N/A	N/A	N/A	N/A	N/A
Dozer	55.6	õ	51.7	N/A	N/A	N/A	N/A	N/A
Tractor	58	3	54	N/A	N/A	N/A	N/A	N/A
Total	58	3	60.4	N/A	N/A	N/A	N/A	N/A

^{*}Calculated Lmax is the Loudest value.

Report date: 2/21/2018

Case Description: East Highline Canal and Measurement Flume_Building Construction

---- Receptor #1 ----

Baselines (dBA)

Description Land Use Daytime Evening Night
Nearest Receiver 150' Residential 65 60 55

Equipment

			Spec	Actı	ıal	Receptor	Estimated
	Impact		Lmax		Lmax		Shielding
Description	Device	Usage(%)	(dBA)	(dB/	A)	(feet)	(dBA)
Generator	No	50	1		80.6	150	0
Generator	No	50	1		80.6	150	0
Grader	No	40	1	85		200	0
Flat Bed Truck	No	40	1		74.3	200	0
Pumps	No	50	1		80.9	250	0
Compactor (ground)	No	20)		83.2	250	0

Results

		Calculated (dBA)				Noise Li	mits (dBA)		
					Day		Evening		Night
Equipment		*Lmax	Leq		Lmax	Leq	Lmax	Leq	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
	Total	73	,	74.1	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

				Spec Actual			Receptor	Estimated
	Impact		Lmax	Lmax			Distance	Shielding
Description	Device	Usage(%)	(dBA)		(dBA)		(feet)	(dBA)
Generator	No	50	1			80.6	1000	0
Generator	No	50	1			80.6	1000	0
Grader	No	40	1	85			1000	0
Flat Bed Truck	No	40	1			74.3	1000	0

Compactor (ground) No 20 83.2 1000 0 Results	
Results	
Calculated (dBA) Noise Limits (dBA)	
	light
·	max
	I/A
	I/A
	I/A
	I/A
·	I/A
• • •	I/A
	I/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_Grading	
case besomption.	
Receptor #1	
Baselines (dBA)	
Description Land Use Daytime Evening Night	
Nearest Receiver 150' Residential 65 60 55	
Equipment	
Spec Actual Receptor Estimated	
Impact Lmax Lmax Distance Shielding	
Description Device Usage(%) (dBA) (dBA) (feet) (dBA)	
Crane No 16 80.6 150 0	
Excavator No 40 80.7 150 0 Scraper No 40 83.6 200 0	
·	
Scraper No 40 83.6 200 0	
Results	
Calculated (dBA) Noise Limits (dBA)	
Day Evening N	light
Equipment *Lmax Leq Lmax Leq Lmax Leq Li	max
·	I/A
	I/A
	I/A
	I/A
·	I/A
*Calculated Lmax is the Loudest value.	

Baselines (c	BA)
--------------	-----

		Baselines	(dBA)										
Description	Land Use	Daytime	Eveni	ing	Night								
Typical Receiver 1000'	Residential	, 65		60	_	55							
Typical Nederver 2000	residential			00		33							
					Equipp	nont							
					Equipn						-		
					Spec		Actual		Recep		Estimate		
		Impact			Lmax	L	_max		Dista	nce	Shielding	3	
Description		Device	Usag	e(%)	(dBA)	(dBA)		(feet)		(dBA)		
Crane		No		16			8	30.6		1000)	0	
Excavator		No		40			8	30.7		1000)	0	
		No		40				33.6		1000		0	
Scraper													
Scraper		No		40			8	33.6		1000)	0	
					Results								
		Calculated	l (dBA)			1	Noise L	imit	s (dBA	۸)			
					Day				Eveni	ng			Night
Equipment		*Lmax	Leq		Lmax	1	_eq		Lmax	_	Leq		Lmax
		54.5	•	16.6	N/A		•				-		
Crane					•		N/A		N/A		N/A		N/A
Excavator		54.7			N/A		N/A		N/A		N/A		N/A
Scraper		57.6	5	53.6	N/A	1	N/A		N/A		N/A		N/A
Scraper		57.6	5	53.6	N/A	1	N/A		N/A		N/A		N/A
	Total	57.6	5	57.9	N/A	١	N/A		N/A		N/A		N/A
		*Calculate	d Lma		-		•		•		•		•
		3 4.34.45						Mod	ا (RC	VIVA)	Version 1	1	
			Modu	way	onstrac	CUOITI	VOISC I	viou	ci (itc		VCI3IOII I		
	0 /0 / /0 0 / 0												
Report date:	2/21/2018												
Case Description:	East Highline	Canal and N	1easur	emen	t Flume	_Pavi	ng						
					Red	Receptor #1							
		Baselines	(dBA)										
Description	Land Use	Daytime	Eveni	inσ	Night								
Nearest Receiver 150'	Residential	-		₆	_	55							
Nearest Receiver 150	Residential	65)	60		55							
					Equipn	nent							
					Spec	F	Actual		Recep	otor	Estimate	d	
		Impact			Lmax	L	max		Dista	nce	Shielding	3	
Description		Device	Usag	e(%)	(dBA)	(dBA)		(feet)		(dBA)		
Concrete Mixer Truck		No	0	40	• •	,		78.8	· /	150	-	0	
		No		50				30.9		150		0	
Pumps													
Pumps		No		50			8	30.9		200)	0	
					Results	S							
		Calculated	l (dBA)			1	Noise L	imit	s (dBA	۸)			
					Day				Eveni	ng			Night
Equipment		*Lmax	Leq		Lmax	ı	_eq		Lmax	_	Leq		Lmax
Concrete Mixer Truck		69.3	•	65.2	N/A		N/A		N/A		N/A		N/A
Pumps		71.4	+	υδ.4	N/A	ľ	N/A		N/A		N/A		N/A

Pumps		68.9	9 6	5.9	N/A	N	I/A	N/A		N/A	N/A
	Total	71.4	1 7	1.5	N/A	N	I/A	N/A		N/A	N/A
		*Calculate	ed Lmax is	s the	e Loude:	st valı	ue.				
					Daa		. 42				
		Dogalinas	/ d D v /		Rec	eptor	#2				
5		Baselines	` '								
Description	Land Use	•	Evening -	-	Night						
Typical Receiver 1000'	Residential	65)	60		55					
					Equipm	ent					
					Spec		ctual	Rece	ntor	Estimated	
		Impact			Lmax		max	Dista	•	Shielding	
Description		Device	110000/0		-					Ū	
Description			Usage(%	•	(dBA)	((dBA)	(feet	-	(dBA)	
Concrete Mixer Truck		No		40			78.8		1000		
Pumps		No		50			80.9		1000		
Pumps		No		50			80.9		1000	()
					Results						
		Calculated	l (dBA)		ricsuits		loise Limi	ts (dR	Δ١		
		Carcarated	(<i>abr</i> ty		Day		ioise Eirin	Even	•		Night
Equipment		*Lmax	Leq		Lmax	L	eq	Lmax	(Leq	Lmax
Concrete Mixer Truck		52.8	3 4	8.8	N/A		ı/A	N/A		N/A	N/A
Pumps		54.9	5	1.9	N/A		I/A	N/A		N/A	N/A
Pumps		54.9			, N/A		I/A	N/A		, N/A	N/A
- r-	Total	54.9			N/A		I/A	N/A		N/A	N/A
	· Jtai			٠.,	, , ,		·, · ·	. •, , .		, , ,	. •/ / .

Report date: 2/21/2018

Case Description: East Highline Sedimentation Basin_Building Construction

---- Receptor #1 ----

Baselines (dBA)

Description Land Use Daytime Evening Night

Nearest Receiver 150' Residential 65 60 55

Εqι	ıipr	nei	nt
_			

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

		Calculated (dBA)				Noise Limits (dBA)				
					Day		Evening		Night	
Equipment		*Lmax	Leq		Lmax	Leq	Lmax	Leq	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		7	' 3	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		6	57	64	N/A	N/A	N/A	N/A	N/A	
	Total	7	7 3	74.1	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

			Spec	Actua	ıl	Receptor	Estimated
	Impact		Lmax	Lmax		Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)		(feet)	(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	8	33.2	1000	0
Pumps		No	50	8	30.9	L000	0
			Resu	ılts			
		Calculated	(dBA)	Noise L	imits (dBA)	
			Day		Evenir	ng	Night
Equipment		*Lmax	Leq Lmax	x Leq	Lmax	Leq	Lmax
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.

Report date: 2/21/2018

Case Description: East Highline Sedimentation Basin_Grading

---- Receptor #1 ----

Baselines (dBA)

Description Land Use Daytime Evening Night

Nearest Receiver 150' Residential 65 60 55

			Equipmen	t		
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(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	ļ	450	0

Results

Calculated (dBA) Noise Limits (dBA)

				Day		Evening		Night
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Excavator		71.2	2	67.2 N/A	N/A	N/A	N/A	N/A
Flat Bed Truck		64.7	7	60.7 N/A	N/A	N/A	N/A	N/A
Flat Bed Truck		62.2	2	58.2 N/A	N/A	N/A	N/A	N/A
Flat Bed Truck		62.2	2	58.2 N/A	N/A	N/A	N/A	N/A
Flat Bed Truck		60.3	3	56.3 N/A	N/A	N/A	N/A	N/A
Flat Bed Truck		60.3	3	56.3 N/A	N/A	N/A	N/A	N/A
Flat Bed Truck		58.7	7	54.7 N/A	N/A	N/A	N/A	N/A
Flat Bed Truck		58.7	7	54.7 N/A	N/A	N/A	N/A	N/A
Flat Bed Truck		57.3	3	53.4 N/A	N/A	N/A	N/A	N/A
Flat Bed Truck		57.3	3	53.4 N/A	N/A	N/A	N/A	N/A
Flat Bed Truck		56.2	2	52.2 N/A	N/A	N/A	N/A	N/A
Dozer		63.6	5	59.6 N/A	N/A	N/A	N/A	N/A
Tractor		64.9	9	60.9 N/A	N/A	N/A	N/A	N/A
	Total	71.2	2	70.8 N/A	N/A	N/A	N/A	N/A

---- Receptor #2 ----

Baselines (dBA)

Description Land Use Daytime Evening Night

Typical Receiver 1000' Residential 65 60 55

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

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

Report date: 2/21/2018

Case Description: East Highline Sedimentation Basin_Paving

---- Receptor #1 ----

Baselines (dBA)

Description Land Use Daytime Evening Night

Nearest Receiver 150' Residential 65 60 55

			Equipme	ent		
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Concrete Mixer Truck	No	40)	78.8	3 150	0
Pumps	No	50)	80.9	9 150	0
Pumps	No	50)	80.9	9 200	0

				Results				
		Calculated (dBA)			Noise L	Noise Limits (dBA)		
				Day		Evening		Night
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Concrete Mixer Truck		69	.3	65.3 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
	Total	71	.4	71.5 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

ıt

					Spec	Actual	Rece	eptor	Estimate	ed
		Impact			Lmax	Lmax	Dista	ance	Shielding	3
Description		Device	Usage(%)	(dBA)	(dBA)	(fee	t)	(dBA)	
Concrete Mixer Truck		No		40		78	.8	1000		0
Pumps		No		50		80	.9	1000		0
Pumps		No		50		80	.9	1000		0
					Results					
		Calculated (dBA)			Noise Limits (dBA)					
					Day		Ever	ning		Night
Equipment		*Lmax	Leq		Lmax	Leq	Lma	Х	Leq	Lmax
Concrete Mixer Truck		52.8	3 4	48.8	N/A	N/A	N/A		N/A	N/A
Pumps		54.9	9 5	51.9	N/A	N/A	N/A		N/A	N/A
Pumps		54.9	9 5	51.9	N/A	N/A	N/A		N/A	N/A
	Total	54.9) 5	55.9	N/A	N/A	N/A		N/A	N/A

0

0

0

Case Description: East Highline Structures_Building Constructrion
Description
Description Land Use Nearest Receiver 150' Residential 65 60 55 Equipment Spec Actual Receptor Estimated Impact Lmax Lmax Distance Shielding Obscription Device Usage(%) (dBA) (dBA) (feet) (dBA) Generator No 50 80.6 150 0 Generator No 40 85 200 0 Flat Bed Truck No 20 83.2 250 0
Nearest Receiver 150' Residential 65 60 55 Equipment Spec Actual Receptor Estimated Impact Lmax Lmax Distance Shielding Description Device Usage(%) (dBA) (feet) (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
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
DescriptionDeviceUsage(%)(dBA)(dBA)(feet)Estimated ShieldingGeneratorNo5080.61500GeneratorNo5080.61500GraderNo40852000Flat Bed TruckNo4074.32000Compactor (ground)No2083.22500
DescriptionDeviceUsage(%)(dBA)(dBA)(feet)Estimated ShieldingGeneratorNo5080.61500GeneratorNo5080.61500GraderNo40852000Flat Bed TruckNo4074.32000Compactor (ground)No2083.22500
Description Device Usage(%) (dBA) (dBA) (feet) (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
Description Device Usage(%) (dBA) (feet) (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
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
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
Flat Bed Truck No 40 74.3 200 0 Compactor (ground) No 20 83.2 250 0
Compactor (ground) No 20 83.2 250 0
Pumps No 50 80.9 250 0
Results
Calculated (dBA) Noise Limits (dBA)
Day Evening Night
Equipment *Lmax Leq Lmax Leq Lmax Leq 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
Baselines (dBA)
Description Land Use Daytime Evening Night
Typical Receiver 1000' Residential 65 60 55
Equipment
Equipment Spec Actual Receptor Estimated
Impact Lmax Lmax Distance Shielding
Description Device Usage(%) (dBA) (dBA) (feet) (dBA)
Generator No 50 80.6 1000 0

No

No

No

50

40

40

80.6

74.3

85

1000

1000

1000

Generator

Flat Bed Truck

Grader

Compactor (ground)		No		20			83.2	1000		0
Pumps		No		50			80.9	1000		0
					.					
					Results					
		Calcula	ated (d	BA)		Noise	Limits (d	=		
					Day		Eve	ning		Night
Equipment		*Lmax	Le	eq	Lmax	Leq	Lma	ax	Leq	Lmax
Generator		5	54.6	51.6	N/A	N/A	N/A	A	N/A	N/A
Generator		5	54.6	51.6	N/A	N/A	N/A	Ą	N/A	N/A
Grader			59	55	N/A	N/A	N/A	A	N/A	N/A
Flat Bed Truck		4	48.2	44.3	N/A	N/A	N/A	4	N/A	N/A
Compactor (ground)		5	57.2	50.2	N/A	N/A	N/A	4	N/A	N/A
Pumps		5	54.9	51.9	N/A	N/A	N/A	4	N/A	N/A
	Total		59	59.5	N/A	N/A	N/A	4	N/A	N/A
		*Calcul	lated L	max is th	e Loude	st value.				
			Ro	oadway C	Construc	tion Noise	Model (F	RCNM),V	ersion 1	1.1
Report date: Case Description:	2/21/2018 East Highline St	ructure	s_Grad	ding						

---- Receptor #1 ----Baselines (dBA) Description Daytime Evening Land Use Night

60 Nearest Receiver 150' Residential 65 55

			Equipme	nt		
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(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) (34	450	0

Results Calculated (dBA) Noise Limits (dBA) Day

Night Evening

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
		*Calculate	ed Lma	x is the Loudes	t value.			

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Typical Receiver 1000'	Residential	65	5 60	55

			Equipmen	t		
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(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				
	Calculated (di	BA)	Noise L	imits (dBA)		
		Day		Evening		Night
Equipment	*Lmax Le	eq Lmax	Leq	Lmax	Leq	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
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
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
		*6-1-1-1-1	and the state of the				

Roadway Construction Noise Model (RCNM), Version 1.1

Report date:	2/21/2018
neport date.	2/21/2010

Case Description: East Highline Structures_Paving

---- Receptor #1 ---Baselines (dBA)

		Dascilles	(ubA)		
Description	Land Use	Daytime	Evening	Night	
Nearest Receiver 150'	Residential	65	6	0	55

			Equipme			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Compactor (ground)	No	20)	83.2	2 150	0 0
Pumps	No	50)	80.9	9 150	0 0
Pumps	No	50)	80.9	9 200	0

					Results				
				Calculated (dBA)					
					Day		Evening		Night
Equipment		*Lmax	Leq		Lmax	Leq	Lmax	Leq	Lmax
Compactor (ground)		73	.7	66.7	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
	Total	73	.7	71.9	N/A	N/A	N/A	N/A	N/A
		*Calculat	ed I ma	v ic th	a Loudes	t value			

^{*}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	e(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimate Shielding (dBA)	
Compactor (ground)		No		20		83.2	1000)	0
Pumps		No		50		80.9	1000)	0
Pumps		No		50		80.9	1000)	0
					Results				
		Calculate	d (dBA)			Noise Limi	ts (dBA)		
					Day		Evening		Night
Equipment		*Lmax	Leq		Lmax	Leq	Lmax	Leq	Lmax
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
		*Calculat	ed Lma	k is th	e Loudest v	alue.			

Report date: 2/21/2018

Case Description: East Highline Canal Tie-Ins_Grading

---- Receptor #1 ----

Baselines (c	IBA)
--------------	------

Description Land Use Daytime Evening Night
Nearest Receiver 150' Residential 65 60 55

Equipment

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

		Calculate	Calculated (dBA)		Noise Limits (dBA)				
					Day		Evening	Evening	
Equipment		*Lmax	Leq		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		ϵ	57	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 ----

Baselines (dBA)

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

Equipment

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

					Results				
		Calculate	d (dBA)		Noise Li	imits (dBA)		
					Day		Evening		Night
Equipment		*Lmax	Leq		Lmax	Leq	Lmax	Leq	Lmax
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
	Total	57	.2	57.5	N/A	N/A	N/A	N/A	N/A
		*Calculat	ed Lma	ax is th	e Loudes	t value.			
			Road	dway C	Construct	ion Noise N	odel (RCNN	/I),Version :	1.1
Report date:	2/21/2018								
Cara Danawinstians	Fact Highling	CIT:-	L D	•					

Compactor (ground)		57.2	2	50.2	N/A	N/	′ A	N/A	N/A	N	I/A
	Total	57.2	2	57.5	N/A	N/	′ A	N/A	N/A	N	I/A
		*Calculate	d Lmax	is th	e Loude	st valu	e.				
			Roadv	vay C	Construc	tion No	oise Mod	del (RCNM),Version	1.1	
Report date:	2/21/2018	3									
Case Description:	East Highline	Canal Tie-I	ns_Pavi	ing							
					Rec	eptor #	#1				
		Baselines	(dBA)			•					
Description	Land Use	Daytime	Evenir	ng	Night						
Nearest Receiver 150'	Residential	65	5	60		55					
					Equipm	nent					
					Spec	Ac	tual	Receptor	Estima	ited	
		Impact			Lmax	Ln	nax	Distance	Shieldi	ing	
Description		Device	Usage	(%)	(dBA)	(d	BA)	(feet)	(dBA)		
Generator		No		50			80.6	5 15	50	0	
Pumps		No		50			80.9	15	50	0	
Pumps		No		50			80.9	20	00	0	
					Results	;					
		Calculated	l (dBA)			No	oise Limi	ts (dBA)			
					Day			Evening		N	ligh
Equipment		*Lmax	Leq		Lmax	Le	q	Lmax	Leq		.max
Generator		71.1	L	68.1	N/A	N/	′ A	N/A	N/A	N	I/A

			Results					
	Calculate	Calculated (dBA)			imits (dBA)			
			Day		Evening		Night	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	
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	
Total	71.	.4	72.4 N/A	N/A	N/A	N/A	N/A	
	*Calculat	ed Lmax	is the Loudes	t value.				

---- Receptor #2 ----

Baselines (dBA)

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

Equipment

Spec Actual Receptor Estimated

		Impact		Lmax	Lmax	Distance	Shieldin	g
Description		Device	Usage(%)		(dBA)	(feet)	(dBA)	_
Generator		No	50		80.			0
Pumps		No	50		80.			0
Pumps		No	50	J	80.	9 100	Ü	0
				Results				
		Calculated	d (dBA)		Noise Lim	nits (dBA)		
				Day		Evening		Night
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Generator		54.	6 51.	6 N/A	N/A	N/A	N/A	N/A
Pumps		54.	9 51.9	9 N/A	N/A	N/A	N/A	N/A
Pumps		54.	9 51.9	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
		*Calculate	ed Lmax is t	he Loudest	value.			
			Roadway	Construction	on Noise Mo	ndel (RCNM)	Version 1	. 1
			Noudway	Construction	on worse wie	aci (itelvivi)	, ()	
Report date:	2/21/2018	3						
Case Description:	East Highline	e Canal Tie-	Ins_Site Pre	paration				
				Recep	otor #1			
		Baselines	(dBA)					
Description	Land Use	Daytime	Evening	Night				
Nearest Receiver 150'	Residential	6.	5 60	0 5	55			
				Equipme	nt			
				Spec	Actual	Receptor	Estimate	ed
		Impact		Lmax	Lmax	Distance	Shieldin	
Description		Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)	J
Flat Bed Truck		No	4(0	74.	3 15	0	0
Tractor		No	40	3 C	34	15	0	0
				Results				
		Calculated	d (dBA)		Noise Lim	nits (dBA)		
			. ,	Day		Evening		Night
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Flat Bed Truck		64.	•	7 N/A	N/A	N/A	N/A	N/A
Tractor		74.		5 N/A	N/A	N/A	N/A	N/A
	Total	74.	5 70.9	9 N/A	N/A	N/A	N/A	N/A
		*Calculate	ed Lmax is t	he Loudest	value.			
				5				
		Da I'	/ -ID & \	Recep	otor #2			
Description	Land III.	Baselines		NI: -J. I				
Description	Land Use	Daytime	Evening	Night	· -			
Typical Receiver 1000'	Residential	6	5 60	J 5	55			

					Equipm	ent	t			
					Spec		Actual	Receptor	Estimate	ed
		Impact			Lmax		Lmax	Distance	Shieldin	3
Description		Device	Usage((%)	(dBA)		(dBA)	(feet)	(dBA)	
Flat Bed Truck		No		40			74.3	100	0	0
Tractor		No		40		84		100	0	0
					Results					
		Calculated	d (dBA)				Noise Limi	ts (dBA)		
					Day			Evening		Night
Equipment		*Lmax	Leq		Lmax		Leq	Lmax	Leq	Lmax
Flat Bed Truck		48.2	2 4	44.3	N/A		N/A	N/A	N/A	N/A
Tractor		58	3	54	N/A		N/A	N/A	N/A	N/A
	Total	58	3 !	54.4	N/A		N/A	N/A	N/A	N/A
		*Calculate	ed Lmax	is th	e Loude	st v	alue.			

Report date: 2/21/2018

Case Description: East Highline Highway 98 Detour_Grading

---- Receptor #1 ----

Baselines (dBA)

Description Land Use Daytime Evening Night

Nearest Receiver 150' Residential 65 60 55

		Equipr	nent		
		Spec	Actual	Receptor	Estimated
	Impact	Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%) (dBA)	(dBA)	(feet)	(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				
		Calculated (dBA)				Noise Lin			
		Day		Day	y Evening			Night	
Equipment		*Lmax	Leq		Lmax	Leq	Lmax	Leq	Lmax
Grader		75.	5	71.5	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck		64.7	7	60.7	N/A	N/A	N/A	N/A	N/A
Compactor (ground)		71.2	2	64.2	N/A	N/A	N/A	N/A	N/A
Scraper		71.5	5	67.6	N/A	N/A	N/A	N/A	N/A
Scraper		69.6	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 ----

Baselines (dBA)

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

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

					Results						
		Calculated (dBA)			Results		Noise Limits (dBA)				
		Calculated	(UDA)		Day		NOISE LIIIII	Evenin			Night
Equipment		*Lmax	Leq		Lmax		Leq	Lmax	δ	Leq	Lmax
Grader		59	•	55	N/A		N/A	N/A		N/A	N/A
Flat Bed Truck		48.2			N/A		N/A	N/A		N/A	N/A
Compactor (ground)		57.2			N/A		N/A	N/A		N/A	N/A
Scraper		57.6			N/A		N/A	N/A		N/A	N/A
Scraper		57.6			N/A		N/A	N/A		N/A	N/A
Solupei	Total	59			N/A		N/A	N/A		N/A	N/A
		*Calculate			•		-	,		,	,
		Carcarace	a zmax i	J	e zoaac	J. 7.					
			Roadwa	ay C	Construc	tion	Noise Mod	lel (RCN	lМ),	Version 1.1	L
Report date:	2/21/2018	\									
Case Description:	East Highline		Detour_	_Pa\	/ing						
					Rec	epto	or #1				
		Baselines (dBA)								
Description	Land Use	Daytime	Evening	3	Night						
Nearest Receiver 150'	Residential	65		60		55					
					Equipm	ent					
					Spec		Actual	Recept	tor	Estimated	ł
		Impact			Lmax		Lmax	Distan	ce	Shielding	
Description		Device	Usage(%		(dBA)		(dBA)	(feet)		(dBA)	
Paver		No		50			77.2		150		0
Roller		No		20			80		150		0
					Results						
		Calculated	(dBA)		Noise Limits (dBA)						
					Day			Evenin	g		Night
Equipment		*Lmax	Leq		Lmax		Leq	Lmax		Leq	Lmax
Paver		67.7			N/A		N/A	N/A		N/A	N/A
Roller		70.5			N/A		N/A	N/A		N/A	N/A
	Total	70.5			N/A		N/A	N/A		N/A	N/A
		*Calculate	d Lmax is	s th	e Loude	st va	alue.				
					Rec	epto	or #2				
		Baselines (
Description	Land Use	Daytime	Evening		Night						
Typical Receiver 1000'	Residential	65	,	60		55					
					Equipm	ent					
					Spec		Actual	Recept	tor	Estimated	ł
		Impact			Lmax		Lmax	Distan		Shielding	
5		. .		./\	(ID 4)		(ID A)	/C>		(-ID-6-)	

(dBA)

(feet)

(dBA)

Usage(%) (dBA)

Device

Description

Paver Roller		No No	50 20	77.2 80			0 0		
		Calculated (dBA)		Noise Limi					
			Day		Evening		Night		
Equipment		*Lmax Leq	Lmax	Leq	Lmax	Leq	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.									