URS Acoustics and Noise Control Practice

FIELD NOISE MEASUREMENT DATA FORM

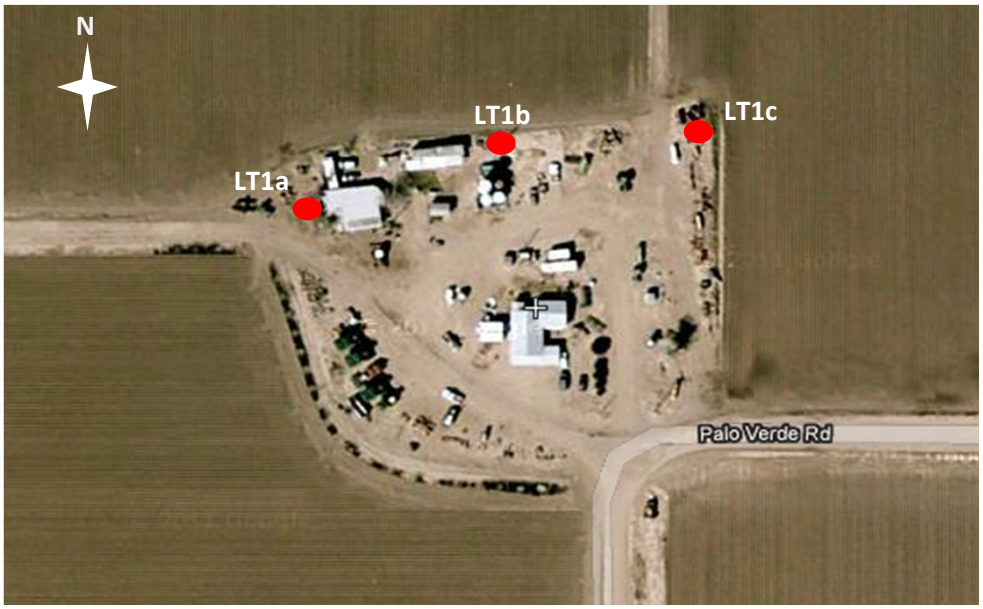
Project Name: Rio Mesa SEGF Project #: 27651006 Date: 7/25/2011 Page ___ of ___

Monitoring Location: A half mile west of SR78 off Palo Verde Rd Analyst: Shirayama

Sound Level Meter		Field Calibration		Weather Data	
Model #:	LD820	Model #:	CAL150B	Model #:	SM28
Serial #:	1655	Serial #:	2233	Serial #:	02393
Weighting: A		Calibration Level (dBA):	114	Wind: Calm	
Response: Slow		Pre-Test	114.1 dBA	Precipitation: No	
Windscreen : Yes		Post-Test	114.1 dBA	Avg Wind Speed/Direction:	0
Topo: Flat		GPS Coordinates (at SLM location)		Temp (°F): 99	RH (%): 40
Terrain: Soft		UTM11: 0709839 / 3701221		Bar Psr (Hg): 29.57	Cloud Cover (%): 10

ID	Start Time	Stop Time	L_{eq}	L_{min}	L_{max}	L_{10}	L_{50}	L_{90}	Notes/Events
LT1a	7/25/2011 12:00	7/26/2011 13:00	46	70	23	44	40	38	

compass Site Diagram:



The dominant noise sources in this area were air conditioning unit and farm equipment.

Between 5 p.m. and 5 a.m., air conditioning unit was running.

URS Acoustics and Noise Control Practice

FIELD NOISE MEASUREMENT DATA FORM

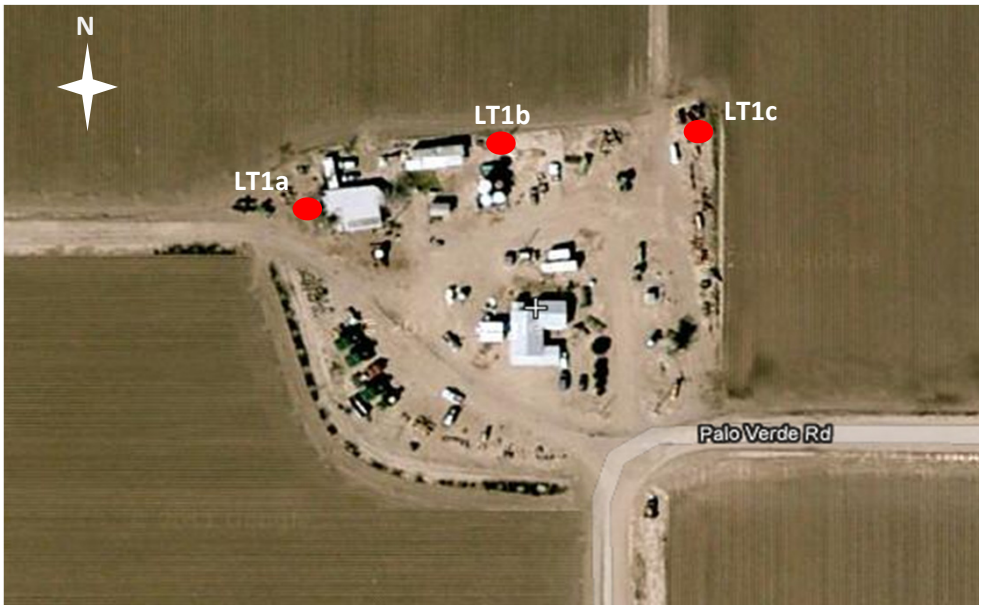
Project Name: Rio Mesa SEGF Project #: 27651006 Date: 8/1/2011 Page ___ of ___

Monitoring Location: A half mile west of SR78 off Palo Verde Rd Analyst: Shirayama

Sound Level Meter		Field Calibration		Weather Data	
Model #:	LD820	Model #:	CAL150	Model #:	SM28
Serial #:	1324	Serial #:	4234	Serial #:	02393
Weighting: A		Calibration Level (dBA):	114	Wind: Calm	
Response: Slow		Pre-Test	113.7 dBA	Precipitation: No	
Windscreen : Yes		Post-Test	114.3 dBA	Avg Wind Speed/Direction:	0
Topo: Flat		GPS Coordinates (at SLM location)		Temp (°F): 107	RH (%): 45
Terrain: Soft		UTM11: 0709891 / 3701239		Bar Psr (Hg): 29.5	Cloud Cover (%): 0

ID	Start Time	Stop Time	L_{eq}	L_{min}	L_{max}	L_{10}	L_{50}	L_{90}	Notes/Events
LT1b	8/1/2011 10:00	8/2/2011 11:00	51	75	35	49	47	46	

compass Site Diagram:



The dominant noise source in this area was air conditioning unit.

A wall mounted AC unit was approximately 30 feet to the west and running all day except the hours between 19:40 and 4:30.

Other nosie sources were dogs barking, automobile, farm equipment, and residence.

URS Acoustics and Noise Control Practice

FIELD NOISE MEASUREMENT DATA FORM

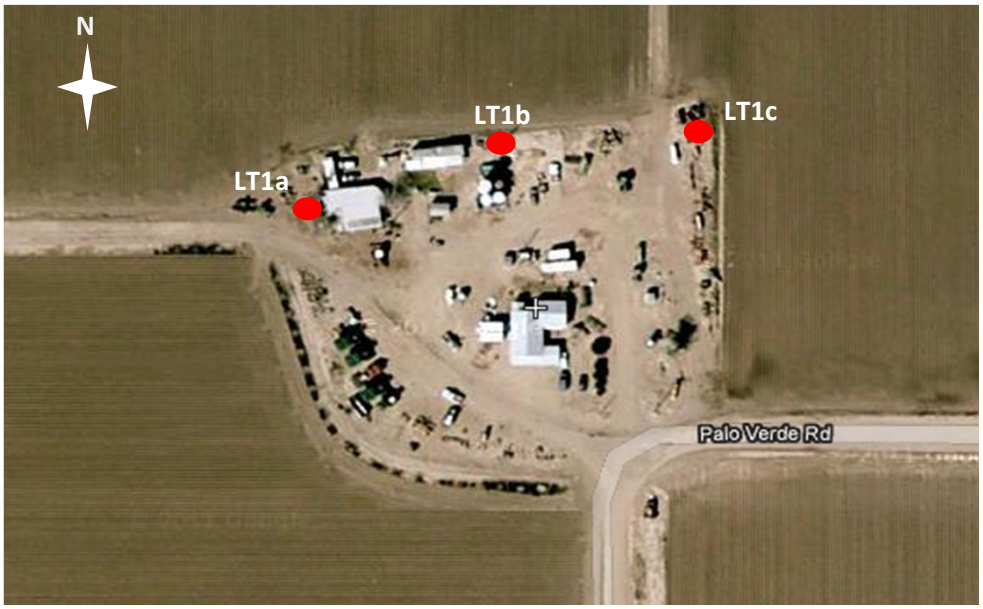
Project Name: Rio Mesa SEGF Project #: 27651006 Date: 8/1/2011 Page ___ of ___

Monitoring Location: A half mile west of SR78 off Palo Verde Rd Analyst: Shirayama

Sound Level Meter		Field Calibration		Weather Data	
Model #:	LD820	Model #:	CAL150	Model #:	SM28
Serial #:	1655	Serial #:	4234	Serial #:	02393
Weighting: A		Calibration Level (dBA):	114	Wind: Calm	
Response: Slow		Pre-Test	114 dBA	Precipitation: No	
Windscreen : Yes		Post-Test	114.2 dBA	Avg Wind Speed/Direction:	0
Topo: Flat		GPS Coordinates (at SLM location)		Temp (°F): 107	RH (%): 45
Terrain: Soft		UTM11: 0709944 / 3701245		Bar Psr (Hg): 29.5	Cloud Cover (%): 0

ID	Start Time	Stop Time	L_{eq}	L_{min}	L_{max}	L_{10}	L_{50}	L_{90}	Notes/Events
LT1c	8/1/2011 10:00	8/2/2011 11:00	39	63	26	38	35	33	

compass Site Diagram:



The meter was approximately 200 feet to the east from the mobile home.

General noise sources in this area were dog barking, farm equipment, distant air conditioning unit, and residence.

URS Acoustics and Noise Control Practice

FIELD NOISE MEASUREMENT DATA FORM

Project Name: Rio Mesa SEGF Project #: 27651006 Date: 8/1/2011 Page ___ of ___

Monitoring Location: Corner of 32nd Ave and SR78 Analyst: Shirayama

Sound Level Meter		Field Calibration		Weather Data	
Model #:	LD712	Model #:	CAL150	Model #:	SM28
Serial #:	0418	Serial #:	4234	Serial #:	02393
Weighting: A		Calibration Level (dBA):	114	Wind: Calm	
Response: Slow		Pre-Test	113.9 dBA	Precipitation: No	
Windscreen : Yes		Post-Test	113.4 dBA	Avg Wind Speed/Direction:	0
Topo: Flat		GPS Coordinates (at SLM location)		Temp (°F): 107	RH (%): 45
Terrain: Soft		UTM11: 0710867 / 3706524		Bar Psr (Hg): 29.5	Cloud Cover (%): 0

ID	Start Time	Stop Time	L_{eq}	L_{max}	L_{min}	L_{10}	L_{50}	L_{90}	Notes/Events
LT2	8/1/2011 9:00	8/2/2011 10:00	54	84	37	52	41	38	

compass Site Diagram:

The dominant noise source at this location is heavy truck traffic on SR78. Frequent heavy trucks were observed.

URS Acoustics and Noise Control Practice
FIELD NOISE MEASUREMENT DATA FORM

Project Name: Rio Mesa SEGF Project #: 27651006 Date: 7/25/2011 Page of

Monitoring Location: 3rd and Alley Way Analyst: Shirayama

Sound Level Meter		Field Calibration		Weather Data	
Model #:	LD820	Model #:	CAL150B	Model #:	SM28
Serial #:	1324	Serial #:	2233	Serial #:	02393
Weighting: A		Calibration Level (dBA):	114	Wind: Calm	
Response: Slow		Pre-Test	114.2 dBA	Precipitation: No	
Windscreen : Yes		Post-Test	114.1 dBA	Avg Wind Speed/Direction:	0
Topo: Flat		GPS Coordinates (at SLM location)		Temp (°F): 104	RH (%): 32
Terrain: Soft		UTM11: 0710722 / 3701308		Bar Psr (Hg): 29.47	Cloud Cover (%): 5

ID	Start Time	Stop Time	L_{eq}	L_{min}	L_{max}	L_{10}	L_{50}	L_{90}	Notes/Events
ST1	15:15	15:20	44	57	38	46	41	38	
	15:20	15:25	46	57	38	50	40	39	
	15:25	15:30	46	62	38	46	40	39	
	15:30	15:35	44	59	38	44	40	39	
	15:35	15:40	46	63	38	45	40	39	
	15:40	15:45	43	58	38	46	40	39	
	15:45	15:50	47	62	39	49	43	40	
	15:50	15:55	44	58	38	46	40	38	
	15:55	16:00	45	59	38	46	40	38	
	16:00	16:05	56	71	38	58	46	40	ATV pass-by on Alley Way
	16:05	16:10	43	56	38	46	40	38	
	16:10	16:15	45	60	38	47	40	38	

Roadway Name/Dir	SR78
Speed	35 mph
Number of Lanes	2
Width	42 feet
1- or 2- way	2
Grade	Flat
Bus Stops	No
Stoplights	No
Motorcycles	0
Automobiles	88
Medium Trucks	1
Heavy Trucks	20
Buses	0
Count duration	60 min

compass Site Diagram:

The dominant noise source at ST1 was vehicular traffic on SR78.

Frequent heavy truck activities were observed.

URS Acoustics and Noise Control Practice

FIELD NOISE MEASUREMENT DATA FORM

Project Name: Rio Mesa SEGF Project #: 27651006 Date: 7/26/2011 Page of

Monitoring Location: 3rd and Alley Way Analyst: Shirayama

Sound Level Meter		Field Calibration		Weather Data	
Model #:	LD820	Model #:	CAL150B	Model #:	SM28
Serial #:	1324	Serial #:	2233	Serial #:	02393
Weighting: A		Calibration Level (dBA):	114	Wind: Calm	
Response: Slow		Pre-Test	113.5 dBA	Precipitation: No	
Windscreen : Yes		Post-Test	114.0 dBA	Avg Wind Speed/Direction:	0
Topo: Flat		GPS Coordinates (at SLM location)		Temp (°F): 88	RH (%): 47
Terrain: Soft		UTM11: 0710722 / 3701308		Bar Psr (Hg): 29.42	Cloud Cover (%): 0

ID	Start Time	Stop Time	L_{eq}	L_{min}	L_{max}	L_{10}	L_{50}	L_{90}	Notes/Events
ST1	1:40	1:45	40	50	37	41	39	37	
	1:45	1:50	40	46	38	42	39	38	
	1:50	1:55	40	45	38	42	40	38	
	1:55	2:00	40	44	38	41	39	38	
	2:00	2:05	40	48	38	42	40	39	
	2:05	2:10	41	49	39	43	40	39	
	2:10	2:15	41	48	39	43	40	39	
	2:15	2:20	44	57	38	45	40	39	
	2:20	2:25	40	45	38	42	39	38	
	2:25	2:30	39	43	38	40	39	38	
	2:30	2:35	39	44	37	39	39	38	
	2:35	2:40	38	44	35	39	38	36	

Roadway Name/Dir	SR78
Speed	35 mph
Number of Lanes	2
Width	42 feet
1- or 2- way	2
Grade	Flat
Bus Stops	No
Stoplights	No
Motorcycles	0
Automobiles	2
Medium Trucks	0
Heavy Trucks	2
Buses	0
Count duration	60 min

compass Site Diagram:

See previous page

The dominant noise source at ST1 was vehicular traffic on SR78.

URS Acoustics and Noise Control Practice

FIELD NOISE MEASUREMENT DATA FORM

Project Name: Rio Mesa SEGF Project #: 27651006 Date: 7/26/2011 Page of

Monitoring Location: 3rd and Alley Way Analyst: Shirayama

Sound Level Meter		Field Calibration		Weather Data	
Model #:	LD820	Model #:	CAL150B	Model #:	SM28
Serial #:	1324	Serial #:	2233	Serial #:	02393
Weighting: A		Calibration Level (dBA):	114	Wind: Calm	
Response: Slow		Pre-Test	113.7 dBA	Precipitation: No	
Windscreen : Yes		Post-Test	114.4 dBA	Avg Wind Speed/Direction:	0
Topo: Flat		GPS Coordinates (at SLM location)		Temp (°F): 101	RH (%): 33
Terrain: Soft		UTM11: 0710722 / 3701308		Bar Psr (Hg): 29.46	Cloud Cover (%): 0

ID	Start Time	Stop Time	L_{eq}	L_{min}	L_{max}	L_{10}	L_{50}	L_{90}	Notes/Events
ST1	10:20	10:25	47	64	37	45	41	39	Car pass by on 3rd St
	10:25	10:30	47	63	37	51	41	39	Dog Barking
	10:30	10:35	48	59	39	53	44	41	
	10:35	10:40	45	57	37	48	42	39	
	10:40	10:45	49	64	39	51	44	41	
	10:45	10:50	45	59	38	48	42	39	
	10:50	10:55	46	57	37	49	42	39	Tractor on SR78
	10:55	11:00	46	58	36	49	41	38	Tractor on SR78, Car Alarm, Dog Barking
	11:00	11:05	44	58	37	45	40	37	
	11:05	11:10	42	54	35	45	39	36	
	11:10	11:15	42	55	34	44	38	35	
	11:15	11:20	45	60	35	48	40	37	

Roadway Name/Dir	SR78
Speed	35 mph
Number of Lanes	2
Width	42 feet
1- or 2- way	2
Grade	Flat
Bus Stops	No
Stoplights	No
Motorcycles	0
Automobiles	52
Medium Trucks	2
Heavy Trucks	18
Buses	0
Count duration	60 min

compass

Site Diagram:

See previous page

The dominant noise source at ST1 was vehicular traffic on SR78.

Frequent heavy truck activities were observed.

URS Acoustics and Noise Control Practice

FIELD NOISE MEASUREMENT DATA FORM

Project Name: Rio Mesa SEGF Project #: 27651006 Date: 7/25/2011 Page ___ of ___

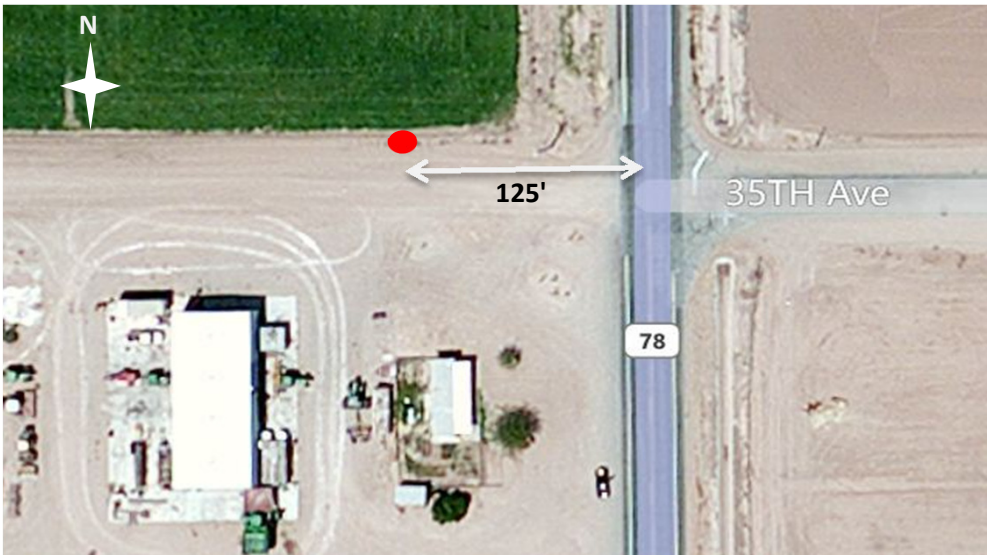
Monitoring Location: 35th Ave and SR78 Analyst: Shirayama

Sound Level Meter		Field Calibration		Weather Data	
Model #:	LD820	Model #:	CAL150B	Model #:	SM28
Serial #:	1324	Serial #:	2233	Serial #:	02393
Weighting: A		Calibration Level (dBA):	114	Wind: Calm	
Response: Slow		Pre-Test	114.2 dBA	Precipitation: No	
Windscreen : Yes		Post-Test	114.1 dBA	Avg Wind Speed/Direction:	0
Topo: Flat		GPS Coordinates (at SLM location)		Temp (°F): 108	RH (%): 31
Terrain: Soft		UTM11: 0710874 / 3704132		Bar Psr (Hg): 29.43	Cloud Cover (%): 5

ID	Start Time	Stop Time	L_{eq}	L_{min}	L_{max}	L_{10}	L_{50}	L_{90}	Notes/Events
ST2	16:25	16:30	60	76	34	61	40	34	
	16:30	16:35	60	75	34	63	41	34	
	16:35	16:40	54	69	34	57	37	34	
	16:40	16:45	59	71	34	63	45	36	Tractor and car on 35th Ave, Door slammed.
	16:45	16:50	60	77	34	62	40	35	
	16:50	16:55	61	77	34	64	46	36	Pickup truck on 35th Ave
	16:55	17:00	55	68	34	60	43	36	Garage door slammed. Truck horned.
	17:00	17:05	55	69	34	59	44	35	Crop dusting truck on 35th Ave, Aircraft
	17:05	17:10	60	76	35	64	49	38	Tractor on 35th Ave
	17:10	17:15	61	75	35	65	46	39	Pickup truck drop off residence
	17:15	17:20	61	78	34	64	39	35	
	17:20	17:25	59	77	35	55	36	35	

Roadway Name/Dir	SR78
Speed	60-70 mph
Number of Lanes	2
Width	32 feet
1- or 2- way	2
Grade	Flat
Bus Stops	No
Stoplights	No
Motorcycles	0
Automobiles	79
Medium Trucks	5
Heavy Trucks	15
Buses	0
Count duration	60 min

compass Site Diagram:



The dominant noise source at ST2 was vehicular traffic on SR78.

Frequent heavy truck activities were observed.

URS Acoustics and Noise Control Practice

FIELD NOISE MEASUREMENT DATA FORM

Project Name: Rio Mesa SEGF Project #: 27651006 Date: 7/26/2011 Page ___ of ___

Monitoring Location: 35th Ave and SR78 Analyst: Shirayama

Sound Level Meter		Field Calibration		Weather Data	
Model #:	LD820	Model #:	CAL150B	Model #:	SM28
Serial #:	1414	Serial #:	2233	Serial #:	02393
Weighting: A		Calibration Level (dBA):	114	Wind: Calm	
Response: Slow		Pre-Test	114.0 dBA	Precipitation: No	
Windscreen : Yes		Post-Test	114.1 dBA	Avg Wind Speed/Direction:	0-10 mph / S
Topo: Flat		GPS Coordinates (at SLM location)		Temp (°F):	90 RH (%): 48
Terrain: Soft		UTM11: 0710874 / 3704132		Bar Psr (Hg):	29.44 Cloud Cover (%): 0

ID	Start Time	Stop Time	L_{eq}	L_{min}	L_{max}	L_{10}	L_{50}	L_{90}	Notes/Events
ST2	0:25	0:30	36	42	33	38	36	34	
	0:30	0:35	54	71	33	50	36	34	
	0:35	0:40	56	74	33	46	36	34	
	0:40	0:45	56	74	34	53	36	34	
	0:45	0:50	54	72	32	53	37	33	
	0:50	0:55	34	37	32	35	34	32	
	0:55	1:00	48	65	32	48	35	33	
	1:00	1:05	34	37	32	35	34	33	
	1:05	1:10	57	76	32	53	35	34	
	1:10	1:15	34	36	33	35	34	33	
	1:15	1:20	56	75	32	51	34	33	
	1:20	1:25	60	76	33	55	39	34	

Roadway Name/Dir	SR78
Speed	60-70 mph
Number of Lanes	2
Width	32 feet
1- or 2- way	2
Grade	Flat
Bus Stops	No
Stoplights	No
Motorcycles	0
Automobiles	8
Medium Trucks	2
Heavy Trucks	7
Buses	0
Count duration	60 min

compass

Site Diagram:

See previous page

The dominant noise source at ST2 was vehicular traffic on SR78.

URS Acoustics and Noise Control Practice

FIELD NOISE MEASUREMENT DATA FORM

Project Name: Rio Mesa SEGF Project #: 27651006 Date: 7/26/2011 Page of

Monitoring Location: 35th Ave and SR78 Analyst: Shirayama

Sound Level Meter		Field Calibration		Weather Data	
Model #:	LD820	Model #:	CAL150B	Model #:	SM28
Serial #:	1324	Serial #:	2233	Serial #:	02393
Weighting: A		Calibration Level (dBA):	114	Wind: Calm	
Response: Slow		Pre-Test	113.7 dBA	Precipitation: No	
Windscreen : Yes		Post-Test	114.4 dBA	Avg Wind Speed/Direction:	6-7 mph / S
Topo: Flat		GPS Coordinates (at SLM location)		Temp (°F): 98	RH (%): 35
Terrain: Soft		UTM11: 0710874 / 3704132		Bar Psr (Hg): 29.44	Cloud Cover (%): 0

ID	Start Time	Stop Time	L_{eq}	L_{min}	L_{max}	L_{10}	L_{50}	L_{90}	Notes/Events
ST2	9:15	9:20	62	77	40	66	46	42	
	9:20	9:25	59	74	39	62	45	41	Pickup truck on 35th Ave
	9:25	9:30	62	76	39	66	54	45	Pickup truck on 35th Ave
	9:30	9:35	62	75	37	66	47	41	
	9:35	9:40	56	67	37	62	47	40	
	9:40	9:45	57	69	36	63	45	40	
	9:45	9:50	53	65	34	56	45	39	Aircraft
	9:50	9:55	56	68	34	60	49	40	
	9:55	10:00	63	76	37	68	49	41	
	10:00	10:05	59	74	35	62	44	38	
	10:05	10:10	62	75	36	67	47	40	
	10:10	10:15	60	74	34	64	43	38	Pickup truck on 35th Ave

Roadway Name/Dir	SR78
Speed	60-70 mph
Number of Lanes	2
Width	32 feet
1- or 2- way	2
Grade	Flat
Bus Stops	No
Stoplights	No
Motorcycles	0
Automobiles	59
Medium Trucks	7
Heavy Trucks	24
Buses	0
Count duration	60 min

compass

Site Diagram:

See previous page

The dominant noise source at ST2 was vehicular traffic on SR78.

Frequent heavy truck activities were observed.