CERTIFICATE OF CALIBRATION AND CONFORMANCE

Certificate of Calibration and Conformance

Certificate Number 2006-78701

Instrument Model 820, Serial Number 1528, was calibrated on 04APR2006. The instrument meets factory specifications per Procedure D0001.8160, ANSI S1.4 1983, IEC 651-Type 1 1979, and IEC 804-Type 1 1985.

Instrument found to be in calibration as received: YES
Date Calibrated: 04APR2006
Calibration due: 04APR2007

Calibration Standards Used

MANUFACTURER	MODEL	SERIAL NUMBER	INTERVAL	CAL. DUE	TRACEABILITY NO.
Larson Davis	2900 / 2209	0666 / 0123	12 Months	01DEC2006	2005-74684

Reference Standards are traceable to the National Institute of Standards and Technology (NIST)

Calibration Environmental Conditions

Temperature: 25 ° Centigrade

Relative Humidity: 28 %

Affirmations

This Certificate attests that this instrument has been calibrated under the stated conditions with Measurement and Test Equipment (M&TE) Standards traceable to the U.S. National Institute of Standards and Technology (NIST). All of the Measurement Standards have been calibrated to their manufacturers' specified accuracy / uncertainty. Evidence of traceability and accuracy is on file at Corporate Headquarters. An acceptable accuracy ratio between the Standard(s) and the item calibrated has been maintained. This instrument meets or exceeds the manufacturer's published specification unless noted.

This calibration complies with the requirements of ISO 17025 and ANSI Z540. The collective uncertainty of the Measurement Standard used does not exceed 25% of the applicable tolerance for each characteristic calibrated unless otherwise noted.

The results documented in this certificate relate only to the item(s) calibrated or tested. A one year calibration is recommended, however calibration interval assignment and adjustment are the responsibility of the end user. This certificate may not be reproduced, except in full, without the written approval of the issuer.

"AS RECEIVED" data same as shipped data.

Signed: Keith Driskill

Technician: Keith Driskill

Larson Davis A PCB GROUP CO.

Larson Davis, Inc. is an ISO 9001-2000 Registered Company

1681 West 820 North • Provo, UT 84601 U.S.A. • 801.375.0177 • Fax: 801.375.0182 • www.larsondavis.com

Certificate of Calibration and Conformance

Certificate Number 2006-78188

Instrument Model 820, Serial Number 1597, was calibrated on 21MAR2006. The instrument meets factory specifications per Procedure D0001.8160, ANSI S1.4 1983, IEC 651-Type 1 1979, and IEC 804-Type 1 1985.

New Instrument
Date Calibrated: 21MAR2006
Calibration due: 21MAY2007

Calibration Standards Used

MANUFACTURER	MODEL	SERIAL NUMBER	INTERVAL	CAL. DUE	TRACEABILITY NO.
Larson Davis	LDSigGn/2209	0589 / 0103	12 Months	05DEC2006	2005-74821

Reference Standards are traceable to the National Institute of Standards and Technology (NIST)

Calibration Environmental Conditions

Temperature: 23 ° Centigrade

Relative Humidity: 27 %

Affirmations

This Certificate attests that this instrument has been calibrated under the stated conditions with Measurement and Test Equipment (M&TE) Standards traceable to the U.S. National Institute of Standards and Technology (NIST). All of the Measurement Standards have been calibrated to their manufacturers' specified accuracy / uncertainty. Evidence of traceability and accuracy is on file at Corporate Headquarters. An acceptable accuracy ratio between the Standard(s) and the item calibrated has been maintained. This instrument meets or exceeds the manufacturer's published specification unless noted.

This calibration complies with the requirements of ISO 17025 and ANSI Z540. The collective uncertainty of the Measurement Standard used does not exceed 25% of the applicable tolerance for each characteristic calibrated unless otherwise noted.

The results documented in this certificate relate only to the item(s) calibrated or tested. A one year calibration is recommended, however calibration interval assignment and adjustment are the responsibility of the end user. This certificate may not be reproduced, except in full, without the written approval of the issuer.

Signed: Ron Harris

Technician: Ron Harris

Larson Davis A PCB GROUP CO.

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PCB PIEZOTRONICS
A PCB GROUP COMPANY

Certificate of Calibration and Conformance

Certificate Number 2007-97341

Instrument Model 720 (MPR005), Serial Number 0395, was calibrated on 05SEP2007. The instrument meets factory specifications per Procedure D0001.8208, ANSI S1.4 1983, IEC 651-Type 2 1979, and IEC 804-Type 2 1985.

Instrument found to be in calibration as received: YES
Date Calibrated: 05SEP2007
Calibration due: 05SEP2008

Calibration Standards Used

MANUFACTURER	MODEL	SERIAL NUMBER	INTERVAL	CAL. DUE	TRACEABILITY NO.
Larson Davis	2559	2847	12 Months	15NOV2007	2006-86155
Larson Davis	LDSigGn/2209	0617 / 0104	12 Months	29JAN2008	2007-89357
Larson Davis	900B	3382	12 Months	01MAY2008	2007-92518

Reference Standards are traceable to the National Institute of Standards and Technology (NIST)

Calibration Environmental Conditions

Temperature: 23 ° Centigrade

Relative Humidity: 27 %

Affirmations

This Certificate attests that this instrument has been calibrated under the stated conditions with Measurement and Test Equipment (M&TE) Standards traceable to the U.S. National Institute of Standards and Technology (NIST). All of the Measurement Standards have been calibrated to their manufacturers' specified accuracy / uncertainty. Evidence of traceability and accuracy is on file at Provo Engineering & Manufacturing Center. An acceptable accuracy ratio between the Standard(s) and the item calibrated has been maintained. This instrument meets or exceeds the manufacturer's published specification unless noted.

This calibration complies with the requirements of ISO 17025 and ANSI Z540. The collective uncertainty of the Measurement Standard used does not exceed 25% of the applicable tolerance for each characteristic calibrated unless otherwise noted.

The results documented in this certificate relate only to the item(s) calibrated or tested. A one year calibration is recommended, however calibration interval assignment and adjustment are the responsibility of the end user. This certificate may not be reproduced, except in full, without the written approval of the issuer.

"As received" data is the same as shipped data.

Signed:
Technician: Sean Childs

Provo Engineering and Manufacturing Center, 1681 West 820 North, Provo, Utah 84601
Toll Free: 888.258.3222 Telephone: 716.926.8243 Fax: 716.926.8215
ISO 9001-2000 Certified

PCB PIEZOTRONICS
A PCB GROUP COMPANY

Certificate of Calibration and Conformance

Certificate Number 2007-97343

Instrument Model 720 (MPR005), Serial Number 0436, was calibrated on 05SEP2007. The instrument meets factory specifications per Procedure D0001.8208, ANSI S1.4 1983, IEC 651-Type 2 1979, and IEC 804-Type 2 1985.

Instrument found to be in calibration as received: YES
Date Calibrated: 05SEP2007
Calibration due: 05SEP2008

Calibration Standards Used

MANUFACTURER	MODEL	SERIAL NUMBER	INTERVAL	CAL. DUE	TRACEABILITY NO.
Larson Davis	2559	2847	12 Months	15NOV2007	2006-86155
Larson Davis	LDSigGn/2209	0617 / 0104	12 Months	29JAN2008	2007-89357
Larson Davis	900B	3382	12 Months	01MAY2008	2007-92518

Reference Standards are traceable to the National Institute of Standards and Technology (NIST)

Calibration Environmental Conditions

Temperature: 23 ° Centigrade

Relative Humidity: 27 %

Affirmations

This Certificate attests that this instrument has been calibrated under the stated conditions with Measurement and Test Equipment (M&TE) Standards traceable to the U.S. National Institute of Standards and Technology (NIST). All of the Measurement Standards have been calibrated to their manufacturers' specified accuracy / uncertainty. Evidence of traceability and accuracy is on file at Provo Engineering & Manufacturing Center. An acceptable accuracy ratio between the Standard(s) and the item calibrated has been maintained. This instrument meets or exceeds the manufacturer's published specification unless noted.

This calibration complies with the requirements of ISO 17025 and ANSI Z540. The collective uncertainty of the Measurement Standard used does not exceed 25% of the applicable tolerance for each characteristic calibrated unless otherwise noted.

The results documented in this certificate relate only to the item(s) calibrated or tested. A one year calibration is recommended, however calibration interval assignment and adjustment are the responsibility of the end user. This certificate may not be reproduced, except in full, without the written approval of the issuer.

"As received" data is the same as shipped data.

Signed:
Technician: Sean Childs

Provo Engineering and Manufacturing Center, 1681 West 820 North, Provo, Utah 84601
Toll Free: 888.258.3222 Telephone: 716.926.8243 Fax: 716.926.8215
ISO 9001-2000 Certified

Larson Davis

A PCB Group Co.

Certificate of Calibration and Conformance

Certificate Number 2006-85110

Instrument Model CAL200, Serial Number 2794, was calibrated on 16OCT2006. The instrument meets factory specifications per Procedure D0001.8190.

Instrument found to be in calibration as received: YES
Date Calibrated: 16OCT2006
Calibration due: 16OCT2007

Calibration Standards Used

MANUFACTURER	MODEL	SERIAL NUMBER	INTERVAL	CAL. DUE	TRACEABILITY NO.
Schaevitz	P3061-15PSIA	17588	12 Months	16FEB2007	287327
Larson Davis	2900	0661	12 Months	04APR2007	2006-78704
Larson Davis	2559	2506	12 Months	18APR2007	14031-1
Hewlett Packard	34401A	US36033460	12 Months	02JUN2007	290347
Hewlett Packard	34401A	3146A10352	12 Months	23JUN2007	291010
Larson Davis	MTS1000/2201	0111	12 Months	11SEP2007	2006-0911-2
Larson Davis	PRM915	0112	12 Months	18SEP2007	2006-84212
Larson Davis	PRM902	0480	12 Months	18SEP2007	2006-84211

Reference Standards are traceable to the National Institute of Standards and Technology (NIST)

Calibration Environmental Conditions

Environmental test conditions as shown on calibration report.

Affirmations

This Certificate attests that this instrument has been calibrated under the stated conditions with Measurement and Test Equipment (M&TE) Standards traceable to the U.S. National Institute of Standards and Technology (NIST). All of the Measurement Standards have been calibrated to their manufacturers' specified accuracy / uncertainty. Evidence of traceability and accuracy is on file at Corporate Headquarters. An acceptable accuracy ratio between the Standard(s) and the item calibrated has been maintained. This instrument meets or exceeds the manufacturer's published specification unless noted.

This calibration complies with the requirements of ISO 17025 and ANSI Z540. The collective uncertainty of the Measurement Standard used does not exceed 25% of the applicable tolerance for each characteristic calibrated unless otherwise noted.

The results documented in this certificate relate only to the item(s) calibrated or tested. A one year calibration is recommended, however calibration interval assignment and adjustment are the responsibility of the end user. This certificate may not be reproduced, except in full, without the written approval of the issuer.

"As Received" data is the same as shipped data.

Signed: Scott Montgomery
Technician: Scott Montgomery

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FIELD NOTES

FIELD NOISE MEASUREMENT DATA

Project Name: Bethel 7&8 Page of

Project #: 27658031 Day / Date: 5/8/08 My Name: Shirayama

Sound Level Meter	Calibrator	Weather Meter
Model # LD720	Model # 150	Model # SM28 Serial # 03386
Serial # 0395	Serial # 0377	
Weighting: (A) / C / Flat	Pre-Test: 114.3 dBA SPL	Terrain: Hard / (Soft) / Mixed
Response: (Slow) / Fast / Impl	Post-Test: 113.9 dBA SPL	Topo: (Flat) / Hilly (describe)
Windscreen: (Yes) / No		Wind: (Steady) / Gusty

ID	Time Start	Time Stop	Leq	Lmin	Lmax	L10	L50	L90	Wind Spd/ Dir (mph)	Temp (°F)	RH (%)	Bar Psr (in Hg)	Cloud Cover (%)
~~AT~~ 1	0800	10:00								66			
	5/8	5/9											

Roadway Name			
Speed (post/obs)			
Number of Lanes			
Width (pave/row)			
1- or 2- way			
Grade			
Bus Stops			
Stoplights			
Street Parking			
Automobiles			
Medium Trucks			
Heavy Trucks			

Location(s) / GPS Reading(s):

N 36° 13580'
W 120° 23592'

600' from Jayne on Western PL

x Traffic on Jayne
x AG Trucks
x Sprinkler
x Patrol traffic on Hospital

Other Noise Sources: distant: aircraft / roadway traffic / trains / landscaping / rustling leaves / children playing / dogs barking / birds vocalizing

Notes and Sketches on Reverse

FIELD NOISE MEASUREMENT DATA

Project Name: Bethel 7&8 Page ___ of ___

Project #: 27658031 Day / Date: 5/8 My Name: Shirayama

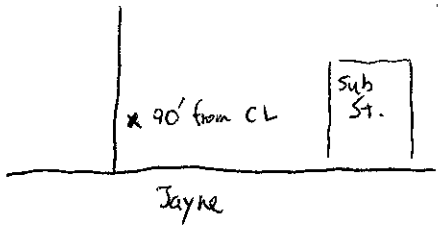
Sound Level Meter	Calibrator	Weather Meter
Model # LD 720	Model # 150	Model # SM28 Serial # 03386
Serial # 0436	Serial # 0377	
Weighting: A / C / Flat	Pre-Test: 114.3 dBA SPL	Terrain: Hard / Soft / Mixed
Response: Slow / Fast / Impl	Post-Test: 114.1 dBA SPL	Topo: Flat / Hilly (describe)
Windscreen: Yes / No		Wind: Steady / Gusty

ID	Time Start	Time Stop	Leq	Lmin	Lmax	L10	L50	L90	Wind Spd/ Dir (mph)	Temp (°F)	RH (%)	Bar Psr (in Hg)	Cloud Cover (%)
LT2	9:00	10:00											
	5/8	5/9											

Roadway Name			
Speed (post/obs)			
Number of Lanes			
Width (pave/row)			
1- or 2- way			
Grade			
Bus Stops			
Stoplights			
Street Parking			
Automobiles			
Medium Trucks			
Heavy Trucks			

Location(s) / GPS Reading(s):

N 36.13844°
W. 120.13857°



x Traffic on Jayne.
x AG Equipment.

Other Noise Sources: distant: aircraft / roadway traffic / trains / landscaping / rustling leaves / children playing / dogs barking / birds vocalizing

Notes and Sketches on Reverse

FIELD NOISE MEASUREMENT DATA

Project Name: Bethel 7&8 Page ___ of ___

Project #: 27658031 Day / Date: 5/8/08 My Name: Shirayama

Sound Level Meter	Calibrator	Weather Meter
Model # LD 820	Model # CAL 200	Model # SM 28 Serial # 03388
Serial # 1528 (DAY/EVE) 1597 (NIGHT)	Serial # 2794	
Weighting: (A) / C / Flat	Pre-Test: 93.9 dBA SPL	Terrain: Hard / (Soft) / Mixed
Response: (Slow) / Fast / Impl	Post-Test: ___ dBA SPL	Topo: (Flat) / Hilly (describe)
Windscreen: (Yes) / No		Wind: (Steady) / Gusty

ID	Time Start	Time Stop	Leq	Lmin	Lmax	L10	L50	L90	Wind Spd/ Dir (mph)	Temp (°F)	RH (%)	Bar Psr (in Hg)	Cloud Cover (%)
ST 1	1005	1010	39.9	32.8	48.4	42.8	38.4	35.2	Calm	75	55	29.63	0
	1010	1015	42.5	33.4	52.6	46.2	39.4	35.5					
	1015	1020	45.2	32.6	60.3	46.4	38.4	34.8					
	2005		53.8	34.3	61.8	57.9	50.1	46.1	Calm	72	40	29.15	0
	2010		51.6	46.8	57.8	53.6	51.1	48.9					
	0135		42.1	36.7	47.8	44.8	41.3	38.1	Calm	60	51	29.18	0
	0140		43.4	37.0	54.0	46.8	40.3	37.8					

Roadway Name			
Speed (post/obs)			
Number of Lanes			
Width (pave/row)			
1- or 2- way			
Grade			
Bus Stops			
Stoplights			
Street Parking			
Automobiles			
Medium Trucks			
Heavy Trucks			

Location(s) / GPS Reading(s):

Near LT 1 Western PL

Appx. ~~60~~ 100' south of LT 1

Appx. ~~200~~ 600' from Jayne Ave.

x Disguise Traffic from Jayne.

x Patrol Cars @ State Hospital.

x Insects (Evening).

Other Noise Sources: distant: aircraft / roadway traffic / trains / landscaping / rustling leaves / children playing / dogs barking / birds vocalizing

Notes and Sketches on Reverse

FIELD NOISE MEASUREMENT DATA

Project Name: Bethel 7&8 Page ___ of ___

Project #: 27658031 Day / Date: 5/8 My Name: Shirayama

Sound Level Meter	Calibrator	Weather Meter
Model # LD 820	Model #	Model # SM28 Serial # 03386
Serial # 1528 (D/E) 1597 (N)	Serial #	
Weighting: (A) / C / Flat	Pre-Test: ____ dBA SPL	Terrain: Hard / Soft / Mixed
Response: Slow / Fast / Impl	Post-Test: ____ dBA SPL	Topo: Flat / Hilly (describe)
Windscreen: Yes / No		Wind: Steady / Gusty

ID	Time Start	Time Stop	Leq	Lmin	Lmax	L10	L50	L90	Wind Spd/ Dir (mph)	Temp (°F)	RH (%)	Bar Psr (in Hg)	Cloud Cover (%)
ST2	1035		68.9	66.5	71.5	70.0	68.8	67.4	Calm.	80	40	29.28	0
	1040		68.7	65.7	72.5	69.9	68.5	67.1					
	1045		68.9	63.9	71.5	70.5	68.9	66.3					
	1900		66.0	64.5	67.4	66.8	66.0	65.2	6	82	27	29.15	0
	1905		66.2	64.5	67.6	66.9	66.2	65.2					
	0030		67.2	65.0	68.3	67.9	67.3	66.3	Calm	66	45	29.20	0
	0035		66.6	64.5	68.6	67.9	66.6	65.4					

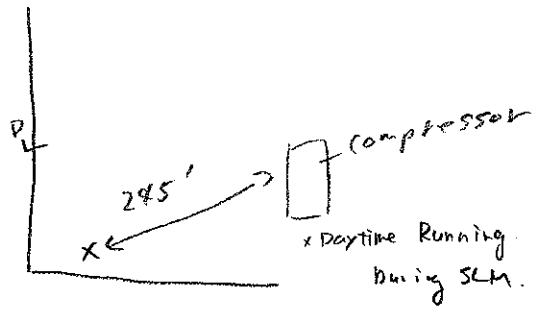
Roadway Name			
Speed (post/obs)			
Number of Lanes			
Width (pave/row)			
1- or 2- way			
Grade			
Bus Stops			
Stoplights			
Street Parking			
Automobiles			
Medium Trucks			
Heavy Trucks			

Location(s) / GPS Reading(s):

SW corner of PL

N 36.12285°

W 120.23574°



× Compressor running during Daytime SLM.

× AG Tractor.

× Gentor still running @ 1900.

× Gentor still on @ 0000

Other Noise Sources: distant: aircraft / roadway traffic / trains / landscaping / rustling leaves / children playing / dogs barking / birds vocalizing

Notes and Sketches on Reverse

Eve. Cal 93.6

Nite 93.8 (Green)

SN 1597

FIELD NOISE MEASUREMENT DATA

Project Name: Bethel 7&8 Page ___ of ___

Project #: 27658031 Day / Date: 5/8 My Name: Shirayama

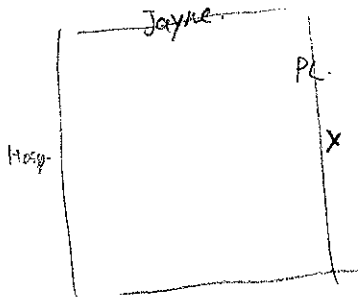
Sound Level Meter	Calibrator	Weather Meter
Model # LD 820	Model #	Model # 5 M28 Serial # 0 3386
Serial # 1528 (D/E) 1597 (N)	Serial #	
Weighting: A / C / Flat	Pre-Test: ____ dBA SPL	Terrain: Hard / Soft / Mixed
Response: Slow / Fast / Impl	Post-Test: ____ dBA SPL	Topo: Flat / Hilly (describe)
Windscreen: Yes / No		Wind: Steady / Gusty

ID	Time Start	Time Stop	Leq	Lmin	Lmax	L10	L50	L90	Wind Spd/ Dir (mph)	Temp (°F)	RH (%)	Bar Psr (in Hg)	Cloud Cover (%)
ST3	1105		38.3	29.4	49.8	42.0	33.9	30.7	Calm.	80	40	29.25	0
	1110		47.9	31.3	59.6	52.0	44.0	38.1					
	1115		34.9	27.5	45.7	38.6	31.2	28.2					
	1930		39.3	30.3	50.8	43.4	35.7	33.3	Calm	80	32	29.14	0
	1935		37.8	33.0	47.9	39.4	36.5	34.5					
	0100		32.1	28.9	37.3	34.3	31.4	30.0	0	60	52	29.18	0
	0105		32.3	28.9	51.9	32.6	30.6	29.4					

Roadway Name			
Speed (post/obs)			
Number of Lanes			
Width (pave/row)			
1- or 2- way			
Grade			
Bus Stops			
Stoplights			
Street Parking			
Automobiles			
Medium Trucks			
Heavy Trucks			

Location(s) / GPS Reading(s):

Eastern PL.
N 36.12881°
W 120.21812°



Other Noise Sources: distant: aircraft / roadway traffic / trains / landscaping / rustling leaves / children playing / dogs barking / birds vocalizing

Notes and Sketches on Reverse

FIELD NOISE MEASUREMENT DATA

Project Name: Bethel 7&8 Page ___ of ___

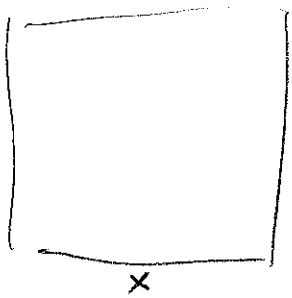
Project #: 27658031 Day / Date: 5/8 My Name: Shirayama

Sound Level Meter	Calibrator	Weather Meter
Model # LD 820	Model #	Model # SH28 Serial # 3388
Serial # 1528 (D/E) 1597 (N)	Serial #	
Weighting: (A) / C / Flat	Pre-Test: ___ dBA SPL	Terrain: Hard / (Soft) / Mixed
Response: (Slow) / Fast / Impl	Post-Test: ___ dBA SPL	Topo: (Flat) / Hilly (describe)
Windscreen: (Yes) / No		Wind: Steady / Gusty

ID	Time Start	Time Stop	Leq	Lmin	Lmax	L10	L50	L90	Wind Spd/ Dir (mph)	Temp (°F)	RH (%)	Bar Psr (in Hg)	Cloud Cover (%)
ST4	1130		34.4	29.3	41.9	36.7	33.4	31.2	Calm	83	34	29.26	0
	1135		36.8	29.3	44.6	40.2	35.3	30.6					
	1140		56.6	28.6	71.8	56.1	36.9	31.7					
	1145		37.1	29.0	48.0	41.3	32.7	30.1					
	1915		35.4	31.6	44.2	37.2	34.8	33.0	calm	80	32	29.14	0
	1920		35.8	32.2	47.3	37.4	34.8	33.4					
	0045		40.1	34.2	45.8	43.7	37.8	34.8	Calm	62	50	29.19	0
	0050		39.0	32.6	47.6	42.0	36.8	33.3					

Roadway Name			
Speed (post/obs)			
Number of Lanes			
Width (pave/row)			
1- or 2- way			
Grade			
Bus Stops			
Stoplights			
Street Parking			
Automobiles			
Medium Trucks			
Heavy Trucks			

Location(s) / GPS Reading(s):
* Southern PL
N 36.12276°
W. 120.22801°



× AG Tractor pass by 1142
× Far Distant Jet like sound.
× Crickets
× Generator Audible. (Nite)

Other Noise Sources: distant: aircraft / roadway traffic / trains / landscaping / rustling leaves / children playing / dogs barking / birds vocalizing

Notes and Sketches on Reverse

FIELD NOISE MEASUREMENT DATA

Project Name: Bethel 7&8 Page ___ of ___

Project #: 27658031 Day / Date: 5/8/08 My Name: Shirayama

Sound Level Meter	Calibrator	Weather Meter
Model # LD 820	Model #	Model # 5428 Serial # 3386
Serial # 1528 (D/E) 1597 (N)	Serial #	
Weighting: (A) / C / Flat	Pre-Test: ___ dBA SPL	Terrain: (Hard) / Soft / Mixed
Response: (Slow) / Fast / Impl	Post-Test: ___ dBA SPL	Topo: (Flat) / Hilly (describe)
Windscreen: (Yes) / No		Wind: Steady / Gusty

ID	Time Start	Time Stop	Leq	Lmin	Lmax	L10	L50	L90	Wind Spd/ Dir (mph)	Temp (°F)	RH (%)	Bar Psr (in Hg)	Cloud Cover (%)
ST5	1205		67.6	33.7	83.8	72.0	52.3	36.7	Calm	87	40	29.21	0
	1210		62.6	29.4	79.9	66.2	39.9	31.5					
	1215		67.3	29.9	84.7	71.1	52.8	34.1					
	1945		64.7	32.4	82.9	66.9	46.4	36.4	Calm	78	33	29.10	0
	1950		59.9	31.7	75.3	61.4	38.5	33.2					
	1955		63.2	34.0	76.4	68.0	47.8	35.8					
	1315		56.1	32.8	73.6	52.2	36.0	33.6	0	60	46	29.14	0
	1320		51.8	33.7	72.0	36.9	34.8	34.1					
	1325												

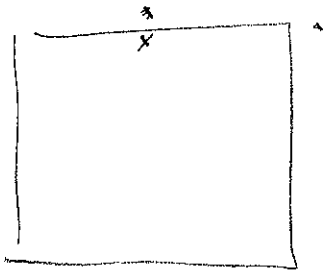
Roadway Name	Jayne Ave.		
Speed (post/obs)	60/70		
Number of Lanes	2		
Width (pave/row)	12		
1- or 2- way	2 wy		
Grade	Flat		
Bus Stops	X		
Stoplights	X		
Street Parking	X		
Automobiles	52	27	6
Medium Trucks	0	0	0
Heavy Trucks	1	1	0

Location(s) / GPS Reading(s):

Northern PL.

N 36°.13743°
W 120.22847°

37' from Jayne CL.



x Jayne Ave. Traffic.
x Sprinkler (Evening)
x " (Nite) closer to SLM

Other Noise Sources: distant: aircraft / roadway traffic / trains / landscaping / rustling leaves / children playing / dogs barking / birds vocalizing

Notes and Sketches on Reverse

FIELD NOISE MEASUREMENT DATA

Project Name: Bethel 7&8 Page ___ of ___

Project #: 27658031 Day / Date: 5/8/08 My Name: Shirayama

Sound Level Meter	Calibrator	Weather Meter
Model # LD 820	Model #	Model # SH28 Serial # 3386
Serial # 1528 (D/E) 1597 (H)	Serial #	
Weighting: (A) / C / Flat	Pre-Test: ___ dBA SPL	Terrain: (Hard) / Soft / Mixed
Response: (Slow) / Fast / Impl	Post-Test: ___ dBA SPL	Topo: (Flat) / Hilly (describe)
Windscreen: (Yes) / No		Wind: Steady / Gusty

ID	Time Start	Time Stop	Leq	Lmin	Lmax	L10	L50	L90	Wind Spd/ Dir (mph)	Temp (°F)	RH (%)	Bar Psr (in Hg)	Cloud Cover (%)
ST6.	1230		48.2	32.1	67.6	44.4	38.8	35.4	Calm.	88	33	29.21	0
	1235		61.3	32.2	80.1	52.1	43.9	34.7					
	1240		60.5	34.0	76.7	56.8	44.1	37.1					
	2020		58.9	41.4	74.9	58.3	43.2	42.1	Calm.	73	40	29.12	0
	2025		44.4	41.5	54.7	46.3	43.5	42.2					
	0150		56.8	38.8	76.3	56.4	41.6	40.0	5-7	62	86	29.14	0
	0155		52.5	37.5	68.6	55.3	40.7	38.7					

Roadway Name	El Dorado		
Speed (post/obs)			
Number of Lanes	2		
Width (pave/row)	12		
1- or 2- way	2		
Grade	F		
Bus Stops	X		
Stoplights	X		
Street Parking	X		
Automobiles	5	3	4
Medium Trucks	1	0	0
Heavy Trucks	1	0	0

Location(s) / GPS Reading(s):
Residences @ El Dorado Ave.
50' from El Dorado Ave
Front of 40435, 445, 475 ... El Dorado Ave.
N 36.14507°
W 120.21032°

× Traffic on El Dorado Ave.
× I-5 visible (Not Audible).
× Cat/Dog

Other Noise Sources: distant: aircraft / roadway traffic / trains / landscaping / rustling leaves / children playing / dogs barking / birds vocalizing

Notes and Sketches on Reverse

FIELD NOISE MEASUREMENT DATA

Project Name: Bethel 7&8 Page of

Project #: 27658031 Day / Date: 5/8/08 My Name: Shirayama

Sound Level Meter	Calibrator	Weather Meter
Model # LD 820	Model #	Model # 5428 Serial # 3388
Serial # 1528 (D/E) 1597 (N)	Serial #	
Weighting: (A) / C / Flat	Pre-Test: _____ dBA SPL	Terrain: (Hard) / Soft / Mixed
Response: (Slow) / Fast / Impl	Post-Test: _____ dBA SPL	Topo: (Flat) / Hilly (describe)
Windscreen: (Yes) / No		Wind: Steady / Gusty

ID	Time Start	Time Stop	Leq	Lmin	Lmax	L10	L50	L90	Wind Spd/ Dir (mph)	Temp (°F)	RH (%)	Bar Psr (in Hg)	Cloud Cover (%)
517	1255		50.2	32.4	70.3	40.1	37.1	33.5	Calm	80	38	29.23	0
	1300		62.0	32.9	80.6	62.6	37.8	34.4					
	1305		59.2	33.3	79.3	45.7	37.8	34.5					
	2035		47.8	43.0	53.9	50.8	46.6	44.1	Calm	71	41	29.16	0
	2040		54.2	42.2	73.2	50.1	46.3	44.1					
	0205		40.3	37.9	43.9	41.8	40.1	38.4	Calm	59	48	29.16	0
	0210		41.4	37.8	46.2	43.3	40.8	39.2					

Roadway Name			
Speed (post/obs)			
Number of Lanes	2		
Width (pave/row)	12		
1- or 2- way	2		
Grade	F		
Bus Stops	X		
Stoplights	X		
Street Parking	X		
Automobiles	6	1	0
Medium Trucks	1	0	0
Heavy Trucks	1	0	0

Location(s) / GPS Reading(s):

Residence @ Sutter.
50 feet from Sutter.
N 36.13226°
W. 120.20030°
x North of Golf Course.
NOT used.

x Distant Traffic on Jayne / I-5

Other Noise Sources: distant: aircraft / roadway traffic / trains / landscaping / rustling leaves / children playing / dogs barking / (birds vocalizing)

Notes and Sketches on Reverse

FIELD NOISE MEASUREMENT DATA

Project Name: Bethel 7&8 Page of

Project #: 27658031 Day / Date: 5/8/08 My Name: Shirayama

Sound Level Meter	Calibrator	Weather Meter
Model # LD 820	Model #	Model # SM 28 Serial # 3388
Serial # 1528 (D/E) 1597 (N)	Serial #	
Weighting: (A) / C / Flat	Pre-Test: _____ dBA SPL	Terrain: (Hard) / Soft / Mixed
Response: (Slow) / Fast / Impl	Post-Test: _____ dBA SPL	Topo: (Flat) / Hilly (describe)
Windscreen: (Yes) / No		Wind: Steady / Gusty

ID	Time Start	Time Stop	Leq	Lmin	Lmax	L10	L50	L90	Wind Spd/ Dir (mph)	Temp (°F)	RH (%)	Bar Psr (in Hg)	Cloud Cover (%)
5/8	1320		70.3	41.7	84.1	75.0	58.8	45.4	Calm	85	36	29.29	0
	1325		71.3	41.5	81.9	76.4	61.4	46.6					
	1330		74.6	40.4	96.3	72.8	50.4	42.5					
	1335		69.3	37.3	79.9	74.5	59.8	42.6					
	2050		65.2	42.8	77.0	70.0	54.8	44.6	Calm	70	40	29.24	0
	2055		64.3	43.6	76.2	69.2	57.3	47.0					
	2100		66.1	44.6	79.4	70.9	58.0	50.3					
	0220		60.0	37.5	77.6	55.7	41.1	38.8	Calm	60	45	29.24	0
	0225		40.1	37.6	42.6	41.5	40.1	38.4					
	0230		52.7	36.2	71.6	45.1	39.9	37.6					

Roadway Name	Jayne		
Speed (post/obs)	60-70		
Number of Lanes			
Width (pave/row)			
1- or 2- way			
Grade			
Bus Stops			
Stoplights			
Street Parking			
Automobiles	105	30	3
Medium Trucks	11	0	0
Heavy Trucks	~~IIII~~ II	1	0

Location(s) / GPS Reading(s):

x N 36.13746°
W. 120.18555
E of Dry Stream
50' S of Jayne.
x Chevron mine ~~entrance~~ access Rd.

x Traffic. (I-5)
x Ambulance @ 1334...
x Distant AG Equip. (Not visible)

Other Noise Sources: distant: aircraft / roadway traffic / trains / landscaping / rustling leaves / children playing / dogs barking / birds vocalizing

Notes and Sketches on Reverse

FIELD NOISE MEASUREMENT DATA

Project Name: Bethel 7&8 Page ___ of ___

Project #: 27658031 Day / Date: 5/8/08 My Name: Shirayama

Sound Level Meter	Calibrator	Weather Meter
Model # LD 820	Model # CAL200	Model # 5128 Serial # 3386
Serial # 1528 (DIE) 1597 (H)	Serial # 2794	
Weighting: (A) / C / Flat	Pre-Test: ___ dBA SPL	Terrain: (Hard) / Soft / Mixed
Response: (Slow) / Fast / Impl	Post-Test: 93.6 dBA SPL	Topo: (Flat) / Hilly (describe)
Windscreen: (Yes) / No		Wind: Steady / Gusty

ID	Time Start	Time Stop	Leq	Lmin	Lmax	L10	L50	L90	Wind Spd/ Dir (mph)	Temp (°F)	RH (%)	Bar Psr (in Hg)	Cloud Cover (%)
519	1350		64.6	37.6	78.2	70.2	48.2	39.3	Calm	87	33	29.38	0
	1355		61.1	38.1	73.9	66.5	42.5	38.7					
	1400		62.3	40.4	73.8	68.2	47.5	42.3					
	2115		64.4	44.9	75.9	69.8	54.4	47.1	Calm	71	41	29.34	0
	2120		66.3	46.1	75.8	72.0	57.5	49.0					
	2125		65.9	48.2	78.7	71.3	57.6	49.8					
	0240		44.0	42.2	46.3	45.0	43.9	42.7	Calm	60	85	29.34	0
	0245		54.3	42.5	74.0	48.1	45.4	43.6					
	0250		45.4	42.1	48.6	46.8	45.2	43.5					

Roadway Name	Jayne		
Speed (post/obs)	60 – 70		
Number of Lanes			
Width (pave/row)			
1- or 2- way			
Grade			
Bus Stops			
Stoplights			
Street Parking			
Automobiles	49	47	1
Medium Trucks	1		0
Heavy Trucks	1	1	0

Location(s) / GPS Reading(s):
Jayne Sub St.
N 36° 13818°
W 120° 13050°
50' N of Jayne @ Sub St.

× Traffic
× Power Line
× AG Equipment.
× 2128. Distant AC
× Distant Generator like Sound Consistent. (Nite)

Other Noise Sources: distant: aircraft / roadway traffic / trains / landscaping / rustling leaves / children playing / dogs barking / birds vocalizing

Notes and Sketches on Reverse

Eve Post CAL 94.0
N Post 93.6 (Green)

LONG TERM SOUND LEVEL MEASUREMENT SUMMARY

Table K3-1
LT1 Noise Measurement Data Summary

25-hr Measurement Hourly Results at LT1 (dBA)							
Hour Start	Hour End	Statistical Descriptors					
		L_{eq}	L_{max}	L_{min}	L_{10}	L_{50}	L_{90}
9:00	10:00	45.5	68.8	36.1	46.0	39.6	36.9
10:00	11:00	44.4	60.4	36.5	47.7	40.4	37.6
11:00	12:00	48.0	70.4	36.3	49.7	41.2	37.7
12:00	13:00	52.1	75.3	36.4	54.0	43.8	38.3
13:00	14:00	52.2	70.0	36.4	55.9	46.3	38.8
14:00	15:00	52.9	76.3	36.8	56.3	45.8	40.0
15:00	16:00	52.5	69.8	37.2	56.0	47.5	42.0
16:00	17:00	53.5	72.3	37.2	57.7	48.0	40.7
17:00	18:00	52.7	69.8	36.6	56.4	48.8	42.2
18:00	19:00	50.7	64.9	36.0	54.0	48.4	42.1
19:00	20:00	46.4	60.2	36.0	49.6	44.0	39.0
20:00	21:00	48.8	65.0	36.7	53.0	44.7	38.4
21:00	22:00	47.5	61.2	37.5	51.1	45.1	40.1
22:00	23:00	46.0	60.1	37.8	48.9	44.3	40.9
23:00	0:00	43.7	63.4	37.6	46.0	41.6	39.4
0:00	1:00	43.3	59.7	37.7	45.2	40.0	38.6
1:00	2:00	41.1	55.4	37.5	43.0	39.6	38.5
2:00	3:00	41.3	53.6	38.0	43.1	40.4	39.1
3:00	4:00	43.1	58.5	38.5	45.2	41.7	39.9
4:00	5:00	46.3	63.3	39.2	49.1	43.6	41.3
5:00	6:00	50.6	64.9	39.6	53.5	48.2	44.1
6:00	7:00	58.1	73.1	39.8	62.8	50.6	44.0
7:00	8:00	49.0	66.4	39.0	52.3	45.2	41.9
8:00	9:00	47.4	67.7	36.7	47.4	40.9	38.0
9:00	10:00	55.6	80.4	36.5	53.8	45.8	41.4

Measurement was conducted on May 8 and 9, 2008.

Table K3-2
LT2 Noise Measurement Data Summary

25-hr Measurement Hourly Results at LT2 (dBA)							
Hour Start	Hour End	Statistical Descriptors					
		L_{eq}	L_{max}	L_{min}	L_{10}	L_{50}	L_{90}
9:00	10:00	61.3	84.1	37.5	65.7	48.0	40.9
10:00	11:00	60.6	76.4	37.7	65.3	48.4	40.9
11:00	12:00	60.9	78.7	37.8	65.6	46.4	39.4
12:00	13:00	59.9	77.1	37.6	64.4	50.7	40.3
13:00	14:00	62.4	86.1	37.5	66.6	55.7	41.3
14:00	15:00	62.7	80.3	37.8	66.8	55.9	42.2
15:00	16:00	63.8	79.0	38.4	67.8	58.4	46.9
16:00	17:00	67.6	91.4	37.9	69.1	60.3	46.9
17:00	18:00	64.3	79.5	39.1	67.9	60.1	50.7
18:00	19:00	61.5	73.8	40.4	65.8	57.9	50.4
19:00	20:00	60.1	80.9	38.2	64.6	51.1	43.0
20:00	21:00	61.9	87.9	37.8	65.0	50.0	41.4
21:00	22:00	63.2	78.4	39.5	67.7	57.8	45.5
22:00	23:00	62.1	81.6	38.2	66.6	55.5	43.5
23:00	0:00	56.4	77.0	38.2	58.2	46.3	41.4
0:00	1:00	50.3	73.1	37.9	48.7	43.6	40.9
1:00	2:00	51.2	73.3	38.3	49.6	45.3	42.5
2:00	3:00	50.3	73.2	38.8	47.5	43.5	41.1
3:00	4:00	53.3	73.8	38.8	49.6	42.4	40.4
4:00	5:00	57.6	77.3	41.3	58.8	45.5	43.2
5:00	6:00	64.5	82.1	40.8	69.0	59.2	48.5
6:00	7:00	65.7	81.1	42.0	70.0	61.7	50.4
7:00	8:00	65.0	79.4	41.1	69.9	58.4	47.1
8:00	9:00	62.3	85.0	37.4	65.9	51.3	42.2
9:00	10:00	60.7	79.3	38.3	64.5	50.8	42.7

Measurement was conducted on May 8 and 9, 2008.

PHOTOGRAPHS

	Photograph #1 **Date:** 5/8/2008 **Comments:** LT1 Northwestern Project Property Line, Facing West (Coalinga State Mental Hospital)
	Photograph #2 **Date:** 5/8/2008 **Comments:** LT2 Approximately 2,200 feet west of Jayne Avenue Substation, North of Jayne Avenue, Facing East

	Photograph #3 **Date:** 5/8/2008 **Comments:** ST1 Northwestern Project Property Line Appx. 600' south of Jayne Ave. Appx. 100' south of LT1 Facing North
	Photograph #4 **Date:** 5/8/2008 **Comments:** ST1 Facing Southwest (Coalinga State Mental Hospital)

	Photograph #5 **Date:** 5/8/2008 **Comments:** ST2 Southwestern Project Property Line Facing South
	Photograph #6 **Date:** 5/8/2008 **Comments:** ST2 Facing East (with a Generator)

	Photograph #7 **Date:** 5/8/2008 **Comments:** ST3 Eastern Project Property Line Facing West
	Photograph #8 **Date:** 5/8/2008 **Comments:** ST4 Southern Project Property Line Facing North

	Photograph #9 **Date:** 5/8/2008 **Comments:** ST5 Northern Project Property Line Appx. 37' from Jayne Ave. Center Line Facing South
	Photograph #10 **Date:** 5/8/2008 **Comments:** ST6 Residences off El Dorado Ave. Appx. 3,500' from northeastern project property line Facing West

	Photograph #11 **Date:** 5/8/2008 **Comments:** ST7 Residence off Sutter Ave. 50' from Sutter Ave. Center Line Facing South with the Golf Course (not used)
	Photograph #12 **Date:** 5/8/2008 **Comments:** ST7 Residence at 41360 Sutter Ave.

	Photograph #13 **Date:** 5/8/2008 **Comments:** ST8 50' south of Jayne Ave. center line Between the project site and I-5 Facing West
	Photograph #14 **Date:** 5/8/2008 **Comments:** ST9 Southwestern corner of Jayne Ave. Substation Appx. 2,200' east of LT2 50' north of Jayne Ave. center line Facing West

CONSTRUCTION EQUIPMENT AND SOUND LEVELS

Table K5-1
Monthly Construction Roster and Usage (Overall)

Equipment Description	Usage Factor	HP	Base Sound (SPL at 1m, dBA)	Project Monthly Construction Equipment Use-Months														
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Scraper	40%	250	109	4	4	3	2	2	2	1	1	0	0	0	0	0	0	0
Grader	40%	120	109	2	3	2	2	2	2	2	1	0	0	0	0	0	0	0
Dozer	40%	175	109	3	3	3	3	3	3	2	1	0	0	0	0	0	0	0
Loaders	40%	120	104	3	3	1	1	1	1	1	1	1	1	1	1	0	0	0
Augers	20%	120	109	0	0	6	6	6	6	6	6	6	6	6	6	3	3	3
Cement Trucks	40%	250	109	0	0	6	6	6	7	7	7	7	6	6	6	6	4	4
Excavator	40%	175	109	3	2	1	1	1	1	1	1	1	1	1	0	0	0	0
Backhoe	40%	120	104	2	2	2	1	1	1	1	1	1	1	1	0	0	0	0
Water Truck	40%	250	114	4	4	3	3	3	3	2	2	2	2	2	2	2	2	2
Dump Truck	40%	250	108	4	4	2	2	2	1	1	1	1	0	0	0	1	1	0
Crane (20 Ton)	16%	120	109	0	0	0	1	1	1	2	4	4	6	4	3	3	3	2
Crane (90 Ton)	16%	250	109	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0
Boom Truck	40%	250	108	1	1	1	2	2	2	3	3	4	6	4	3	3	2	2
ATVs	40%	50	107	5	5	5	5	5	5	5	5	5	5	5	1	1	1	5
Pick Up trucks (1/2 ton)	40%	120	79	2	2	2	2	2	2	2	2	2	2	4	4	4	3	2
Pavers	50%	175	109	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1
Rollers	20%	175	109	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1
Plate Compactors	20%	15	104	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0
Forklift	40%	50	107	0	0	1	2	2	2	2	2	2	2	2	2	2	2	0
Welder	40%	50	97	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
Generator	100%	50	106	0	0	0	1	1	1	1	1	2	2	3	3	3	3	2
Aerial Lift	20%	50	109	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
			Total	33	33	38	40	40	44	43	43	42	43	42	33	34	30	26

Table K5-2
Calculated Construction Levels at ST6

Equipment Description	Distance to Receiver (m)	Predicted Sound from Quantity of Equipment During Indicated Month														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Scraper	2160	44	44	43	41	41	41	38	38	0	0	0	0	0	0	0
Grader	2160	41	43	41	41	41	41	41	38	0	0	0	0	0	0	0
Dozer	2160	43	43	43	43	43	43	41	38	0	0	0	0	0	0	0
Loaders	2160	38	38	33	33	33	33	33	33	33	33	33	33	0	0	0
Augers	2160	0	0	43	43	43	43	43	43	43	43	43	43	40	40	40
Cement Trucks	2160	0	0	46	46	46	47	47	47	47	46	46	46	46	44	44
Excavator	2160	43	41	38	38	38	38	38	38	38	38	38	0	0	0	0
Backhoe	2160	36	36	36	33	33	33	33	33	33	33	33	0	0	0	0
Water Truck	2160	49	49	48	48	48	48	46	46	46	46	46	46	46	46	46
Dump Truck	2160	43	43	40	40	40	37	37	37	37	0	0	0	37	37	0
Crane (20 Ton)	2160	0	0	0	34	34	34	37	40	40	42	40	39	39	39	37
Crane (90 Ton)	2160	0	0	0	0	0	34	34	34	34	34	34	0	0	0	0
Boom Truck	2160	37	37	37	40	40	40	42	42	43	45	43	42	42	40	40
ATVs	2160	43	43	43	43	43	43	43	43	43	43	43	36	36	36	43
Pick Up trucks (1/2 ton)	2160	11	11	11	11	11	11	11	11	11	11	14	14	14	13	11
Pavers	2160	0	0	0	0	0	0	0	0	0	0	0	0	42	42	39
Rollers	2160	0	0	0	0	0	0	0	0	0	0	0	0	38	38	35
Plate Compactors	2160	0	0	0	0	0	30	30	30	30	0	0	0	0	0	0
Forklift	2160	0	0	36	39	39	39	39	39	39	39	39	39	39	39	0
Welder	2160	0	0	0	0	0	26	26	26	26	26	26	26	26	26	26
Generator	2160	0	0	0	39	39	39	39	39	42	42	44	44	44	44	42
Aerial Lift	2160	0	0	0	0	0	35	35	35	35	35	35	35	35	35	35
	Aggregate	53	53	54	54	54	54	54	53	53	53	53	52	53	52	52

Table K5-3
Calculated Construction Levels at ST7

Equipment Description	Distance to Receiver (m)	Predicted Sound from Quantity of Equipment During Indicated Month														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Scraper	2360	44	44	42	41	41	41	38	38	0	0	0	0	0	0	0
Grader	2360	41	42	41	41	41	41	41	38	0	0	0	0	0	0	0
Dozer	2360	42	42	42	42	42	42	41	38	0	0	0	0	0	0	0
Loaders	2360	37	37	33	33	33	33	33	33	33	33	33	33	0	0	0
Augers	2360	0	0	42	42	42	42	42	42	42	42	42	42	39	39	39
Cement Trucks	2360	0	0	45	45	45	46	46	46	46	45	45	45	45	44	44
Excavator	2360	42	41	38	38	38	38	38	38	38	38	38	0	0	0	0
Backhoe	2360	36	36	36	33	33	33	33	33	33	33	33	0	0	0	0
Water Truck	2360	48	48	47	47	47	47	45	45	45	45	45	45	45	45	45
Dump Truck	2360	43	43	40	40	40	37	37	37	37	0	0	0	37	37	0
Crane (20 Ton)	2360	0	0	0	34	34	34	37	40	40	41	40	38	38	38	37
Crane (90 Ton)	2360	0	0	0	0	0	34	34	34	34	34	34	0	0	0	0
Boom Truck	2360	37	37	37	40	40	40	41	41	43	44	43	41	41	40	40
ATVs	2360	42	42	42	42	42	42	42	42	42	42	42	35	35	35	42
Pick Up trucks (1/2 ton)	2360	11	11	11	11	11	11	11	11	11	11	14	14	14	12	11
Pavers	2360	0	0	0	0	0	0	0	0	0	0	0	0	42	42	39
Rollers	2360	0	0	0	0	0	0	0	0	0	0	0	0	38	38	35
Plate Compactors	2360	0	0	0	0	0	30	30	30	30	0	0	0	0	0	0
Forklift	2360	0	0	35	38	38	38	38	38	38	38	38	38	38	38	0
Welder	2360	0	0	0	0	0	26	26	26	26	26	26	26	26	26	26
Generator	2360	0	0	0	39	39	39	39	39	42	42	43	43	43	43	42
Aerial Lift	2360	0	0	0	0	0	35	35	35	35	35	35	35	35	35	35
	Aggregate	53	53	53	53	53	53	53	53	52	53	52	52	52	51	51

Table K5-4
Calculated Construction Levels at SR1

Equipment Description	Distance to Receiver (m)	Predicted Sound from Quantity of Equipment During Indicated Month														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Scraper	1300	49	49	48	46	46	46	43	43	0	0	0	0	0	0	0
Grader	1300	46	48	46	46	46	46	46	43	0	0	0	0	0	0	0
Dozer	1300	48	48	48	48	48	48	46	43	0	0	0	0	0	0	0
Loaders	1300	43	43	38	38	38	38	38	38	38	38	38	38	0	0	0
Augers	1300	0	0	48	48	48	48	48	48	48	48	48	48	45	45	45
Cement Trucks	1300	0	0	51	51	51	51	51	51	51	51	51	51	51	49	49
Excavator	1300	48	46	43	43	43	43	43	43	43	43	43	0	0	0	0
Backhoe	1300	41	41	41	38	38	38	38	38	38	38	38	0	0	0	0
Water Truck	1300	53	53	52	52	52	52	50	50	50	50	50	50	50	50	50
Dump Truck	1300	48	48	45	45	45	42	42	42	42	0	0	0	42	42	0
Crane (20 Ton)	1300	0	0	0	39	39	39	42	45	45	47	45	44	44	44	42
Crane (90 Ton)	1300	0	0	0	0	0	39	39	39	39	39	39	0	0	0	0
Boom Truck	1300	42	42	42	45	45	45	47	47	48	50	48	47	47	45	45
ATVs	1300	47	47	47	47	47	47	47	47	47	47	47	40	40	40	47
Pick Up trucks (1/2 ton)	1300	16	16	16	16	16	16	16	16	16	16	19	19	19	18	16
Pavers	1300	0	0	0	0	0	0	0	0	0	0	0	0	47	47	44
Rollers	1300	0	0	0	0	0	0	0	0	0	0	0	0	43	43	40
Plate Compactors	1300	0	0	0	0	0	35	35	35	35	0	0	0	0	0	0
Forklift	1300	0	0	40	43	43	43	43	43	43	43	43	43	43	43	0
Welder	1300	0	0	0	0	0	31	31	31	31	31	31	31	31	31	31
Generator	1300	0	0	0	44	44	44	44	44	47	47	48	48	48	48	47
Aerial Lift	1300	0	0	0	0	0	40	40	40	40	40	40	40	40	40	40
	Aggregate	58	58	58	58	58	58	58	58	58	58	58	57	57	57	56

Table K5-5
Calculated Construction Levels at H1

Equipment Description	Distance to Receiver (m)	Predicted Sound from Quantity of Equipment During Indicated Month														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Scraper	1080	50	50	49	47	47	47	44	44	0	0	0	0	0	0	0
Grader	1080	47	49	47	47	47	47	47	44	0	0	0	0	0	0	0
Dozer	1080	49	49	49	49	49	49	47	44	0	0	0	0	0	0	0
Loaders	1080	44	44	39	39	39	39	39	39	39	39	39	39	0	0	0
Augers	1080	0	0	49	49	49	49	49	49	49	49	49	49	46	46	46
Cement Trucks	1080	0	0	52	52	52	53	53	53	53	52	52	52	52	50	50
Excavator	1080	49	47	44	44	44	44	44	44	44	44	44	0	0	0	0
Backhoe	1080	42	42	42	39	39	39	39	39	39	39	39	0	0	0	0
Water Truck	1080	55	55	54	54	54	54	52	52	52	52	52	52	52	52	52
Dump Truck	1080	49	49	46	46	46	43	43	43	43	0	0	0	43	43	0
Crane (20 Ton)	1080	0	0	0	40	40	40	43	46	46	48	46	45	45	45	43
Crane (90 Ton)	1080	0	0	0	0	0	40	40	40	40	40	40	0	0	0	0
Boom Truck	1080	43	43	43	46	46	46	48	48	49	51	49	48	48	46	46
ATVs	1080	49	49	49	49	49	49	49	49	49	49	49	42	42	42	49
Pick Up trucks (1/2 ton)	1080	17	17	17	17	17	17	17	17	17	17	20	20	20	19	17
Pavers	1080	0	0	0	0	0	0	0	0	0	0	0	0	48	48	45
Rollers	1080	0	0	0	0	0	0	0	0	0	0	0	0	44	44	41
Plate Compactors	1080	0	0	0	0	0	36	36	36	36	0	0	0	0	0	0
Forklift	1080	0	0	42	45	45	45	45	45	45	45	45	45	45	45	0
Welder	1080	0	0	0	0	0	32	32	32	32	32	32	32	32	32	32
Generator	1080	0	0	0	45	45	45	45	45	48	48	50	50	50	50	48
Aerial Lift	1080	0	0	0	0	0	41	41	41	41	41	41	41	41	41	41
	Aggregate	59	59	60	60	60	60	60	59	59	59	59	58	59	58	58

Table K5-6
Calculated Construction Levels at H2

Equipment Description	Distance to Receiver (m)	Predicted Sound from Quantity of Equipment During Indicated Month														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Scraper	1250	49	49	48	46	46	46	43	43	0	0	0	0	0	0	0
Grader	1250	46	48	46	46	46	46	46	43	0	0	0	0	0	0	0
Dozer	1250	48	48	48	48	48	48	46	43	0	0	0	0	0	0	0
Loaders	1250	43	43	38	38	38	38	38	38	38	38	38	38	0	0	0
Augers	1250	0	0	48	48	48	48	48	48	48	48	48	48	45	45	45
Cement Trucks	1250	0	0	51	51	51	52	52	52	52	51	51	51	51	49	49
Excavator	1250	48	46	43	43	43	43	43	43	43	43	43	0	0	0	0
Backhoe	1250	41	41	41	38	38	38	38	38	38	38	38	0	0	0	0
Water Truck	1250	54	54	53	53	53	53	51	51	51	51	51	51	51	51	51
Dump Truck	1250	48	48	45	45	45	42	42	42	42	0	0	0	42	42	0
Crane (20 Ton)	1250	0	0	0	39	39	39	42	45	45	47	45	44	44	44	42
Crane (90 Ton)	1250	0	0	0	0	0	39	39	39	39	39	39	0	0	0	0
Boom Truck	1250	42	42	42	45	45	45	47	47	48	50	48	47	47	45	45
ATVs	1250	48	48	48	48	48	48	48	48	48	48	48	41	41	41	48
Pick Up trucks (1/2 ton)	1250	16	16	16	16	16	16	16	16	16	16	19	19	19	18	16
Pavers	1250	0	0	0	0	0	0	0	0	0	0	0	0	47	47	44
Rollers	1250	0	0	0	0	0	0	0	0	0	0	0	0	43	43	40
Plate Compactors	1250	0	0	0	0	0	35	35	35	35	0	0	0	0	0	0
Forklift	1250	0	0	41	44	44	44	44	44	44	44	44	44	44	44	0
Welder	1250	0	0	0	0	0	31	31	31	31	31	31	31	31	31	31
Generator	1250	0	0	0	44	44	44	44	44	47	47	49	49	49	49	47
Aerial Lift	1250	0	0	0	0	0	40	40	40	40	40	40	40	40	40	40
	Aggregate	58	58	58	59	59	59	58	58	58	58	58	57	57	57	56

Table K5-7
Calculated Construction Levels at P1

Equipment Description	Distance to Receiver (m)	Predicted Sound from Quantity of Equipment During Indicated Month														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Scraper	2000	45	45	44	42	42	42	39	39	0	0	0	0	0	0	0
Grader	2000	42	44	42	42	42	42	42	39	0	0	0	0	0	0	0
Dozer	2000	44	44	44	44	44	44	42	39	0	0	0	0	0	0	0
Loaders	2000	39	39	34	34	34	34	34	34	34	34	34	34	0	0	0
Augers	2000	0	0	44	44	44	44	44	44	44	44	44	44	41	41	41
Cement Trucks	2000	0	0	47	47	47	47	47	47	47	47	47	47	47	45	45
Excavator	2000	44	42	39	39	39	39	39	39	39	39	39	0	0	0	0
Backhoe	2000	37	37	37	34	34	34	34	34	34	34	34	0	0	0	0
Water Truck	2000	50	50	48	48	48	48	47	47	47	47	47	47	47	47	47
Dump Truck	2000	44	44	41	41	41	38	38	38	38	0	0	0	38	38	0
Crane (20 Ton)	2000	0	0	0	35	35	35	38	41	41	43	41	40	40	40	38
Crane (90 Ton)	2000	0	0	0	0	0	35	35	35	35	35	35	0	0	0	0
Boom Truck	2000	38	38	38	41	41	41	43	43	44	46	44	43	43	41	41
ATVs	2000	44	44	44	44	44	44	44	44	44	44	44	37	37	37	44
Pick Up trucks (1/2 ton)	2000	12	12	12	12	12	12	12	12	12	12	15	15	15	14	12
Pavers	2000	0	0	0	0	0	0	0	0	0	0	0	0	43	43	40
Rollers	2000	0	0	0	0	0	0	0	0	0	0	0	0	39	39	36
Plate Compactors	2000	0	0	0	0	0	31	31	31	31	0	0	0	0	0	0
Forklift	2000	0	0	37	40	40	40	40	40	40	40	40	40	40	40	0
Welder	2000	0	0	0	0	0	27	27	27	27	27	27	27	27	27	27
Generator	2000	0	0	0	40	40	40	40	40	43	43	45	45	45	45	43
Aerial Lift	2000	0	0	0	0	0	36	36	36	36	36	36	36	36	36	36
	Aggregate	54	54	54	54	54	55	54	54	54	54	54	53	53	53	52