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Noise Monitoring Data

**Noise Analysis Data
Ronkonkoma Hub TOD
Suffolk County, New York**

Run	Start Time	End Time	Duration	Max	Min	Leq
1	6:32	7:02	30 min	83.1	51.5	68.1
2	7:26	7:56	30 min	82.3	48.1	60.3
3	8:05	8:35	30 min	84.7	55.3	69.1
4	8:50	9:20	30 min	85.1	54.5	69.4
5	9:28	9:58	30 min	82.3	52.8	68.9

Noise analysis conducted on August 26, 2010.

Data File 7 (Run 1) - train pulls in at 2:55

train pulls out at 7:24-7:56

picks up noise from traffic on Railroad Avenue up to 71 dB(A)

train passes at 14:54 - 15:20

person talks at 22:20

train passes at 24:16 - 24:35

Data File 8 (Run 2) - train pulls in at 5:04 - 5:40

train pulls in at 25:09 - 26:18

Data File 9 (Run 3) Picks up noise from traffic on Railroad Avenue and Hawkins Avenue up to 84.7 dB(A)

also noise from buses using loop around vegetated area

train pulls in at 22:34 - 23:04 (*makes less noise than buses)

train pulls out at 26:25 - 27:05 (passing cars cause noise spikes)

passing helicopter at 29:21 to 29:42

Data File 10 (Run 4) - Picks up noise from traffic on Union Avenue and Mill Road

No trains heard

Data File 11 (Run 5) - Picks up noise from traffic on Union Avenue and Carroll Avenue

No trains heard

SLM & RTA Summary

Translated: 31-Aug-10 12:01:26
 File Translated: C:\Wholley\Projects\New York\Noise Monitoring Data (26 Aug 2010)\26Aug06s.slm
 Model Number: 824
 Serial Number: A0184
 Firmware Rev: 4.283
 Software Version: 3.12
 Name: Enter Company Name
 Descr1: Enter Address Line 1
 Descr2: Enter Address Line 2
 Setup: VHBGen1h.ssa
 Setup Descr: VHB-Gen1hr-1sec
 Location:
 Note 1:
 Note 2:

Overall Any Data

Start Time: 26-Aug-10 6:33:40
 Elapsed Time: 30:00.8

	A Weight	C Weight	Flat	
Leq:	68.1 dBA	78.1 dBC	79.9 dBF	
SEL:	100.6 dBA	110.7 dBC	112.5 dBF	
Peak:	111.2 dBA	109.6 dBC	113.0 dBF	
	8/26/2010 6:34	8/26/2010 6:34		8/26/2010 6:34
Lmax (slow):	83.1 dBA	94.0 dBC	95.1 dBF	
	8/26/2010 6:48	8/26/2010 6:36		8/26/2010 6:36
Lmin (slow):	51.5 dBA	64.0 dBC	65.4 dBF	
	8/26/2010 7:00	8/26/2010 6:47		8/26/2010 6:47
Lmax (fast):	89.5 dBA	95.9 dBC	97.0 dBF	
	8/26/2010 6:34	8/26/2010 6:36		8/26/2010 6:36
Lmin (fast):	50.6 dBA	61.9 dBC	63.3 dBF	
	8/26/2010 7:00	8/26/2010 6:47		8/26/2010 6:47
Lmax (impulse):	94.4 dBA	97.0 dBC	98.2 dBF	
	8/26/2010 6:34	8/26/2010 6:36		8/26/2010 6:36
Lmin (impulse):	51.1 dBA	64.3 dBC	66.2 dBF	
	8/26/2010 7:00	8/26/2010 6:39		8/26/2010 6:39

Spectra

Start Time: 26-Aug-10 6:33:40 Run Time: 30:00.8

Freq Hz	Leq 1/1 Oct	Max 1/1 Oct	Min 1/1 Oct	
16	20.9	26		-7.4
31.5	36.2	47.8		15.7
63	48.1	59		29.5
125	54	68.2		33.6
250	61.1	79		35.4
500	62.3	80.1		40.4
1000	62.5	77.4		44.9
2000	60.9	74.6		39.3
4000	56.1	68.8		36.3
8000	48.9	61.1		36.3
16000	38.5	42.3		28.4

Ln Start Level: 15 dB
 L 1.00 79.5 dBA
 L 5.00 73.8 dBA

L 50.00 63.6 dBA
 L 90.00 57 dBA
 L 10.00 57 dBA
 L 99.00 52.5 dBA

Detector: Slow
 Weighting: A
 SPL Exceedance Level 1: 85.0 dB Exceeded: 0 times
 SPL Exceedance level 2: 66 dB Exceeded: 65 times
 Peak-1 Exceedance Level: 105 dB Exceeded: 2 times
 Peak-2 Exceedance Level: 100 dB Exceeded: 8 times
 Hysteresis: 2
 Overloaded: 0 time(s)
 Paused: 0 times for 00:00:00.0

Current Any Data

Start Time: 26-Aug-10 6:33:40
 Elapsed Time: 30:00.8

	A Weight	C Weight	Flat	
Leq:	68.1 dBA	78.1 dBC	79.9 dBF	
SEL:	100.6 dBA	110.7 dBC	112.5 dBF	
Peak:	111.2 dBA	109.6 dBC	113.0 dBF	
	8/26/2010 6:34	8/26/2010 6:34		8/26/2010 6:34
Lmax (slow):	83.1 dBA	94.0 dBC	95.1 dBF	
	8/26/2010 6:48	8/26/2010 6:36		8/26/2010 6:36
Lmin (slow):	51.5 dBA	64.0 dBC	65.4 dBF	
	8/26/2010 7:00	8/26/2010 6:47		8/26/2010 6:47
Lmax (fast):	89.5 dBA	95.9 dBC	97.0 dBF	
	8/26/2010 6:34	8/26/2010 6:36		8/26/2010 6:36
Lmin (fast):	50.6 dBA	61.9 dBC	63.3 dBF	
	8/26/2010 7:00	8/26/2010 6:47		8/26/2010 6:47
Lmax (impulse):	94.4 dBA	97.0 dBC	98.2 dBF	
	8/26/2010 6:34	8/26/2010 6:36		8/26/2010 6:36
Lmin (impulse):	51.1 dBA	64.3 dBC	66.2 dBF	
	8/26/2010 7:00	8/26/2010 6:39		8/26/2010 6:39

Calibrated: 5/7/2000 13:44 Offset: -46.8 dB
 Checked: 8/25/2010 13:58 Level: 114.6 dB
 Calibrator not set Level: 114.0 dB
 Cal Records Count: 0

Interval Records: Enabled Number Interval Record 1
 History Records: Enabled Number History Records 1802
 Run/Stop Records: Number Run/Stop Record 2

SLM & RTA Summary

Translated: 31-Aug-10 12:00:20
 File Translated: C:\Wholley\Projects\New York\Noise Monitoring Data (26 Aug 2010)\26Aug07s.s
 Model Number: 824
 Serial Number: A0184
 Firmware Rev: 4.283
 Software Version: 3.12
 Name: Enter Company Name
 Descr1: Enter Address Line 1
 Descr2: Enter Address Line 2
 Setup: VHBGen1h.ssa
 Setup Descr: VHB-Gen1hr-1sec
 Location:
 Note 1:
 Note 2:

Overall Any Data

Start Time: 26-Aug-10 7:26:36
 Elapsed Time: 30:01.1

	A Weight	C Weight	Flat
Leq:	60.3 dBA	70.3 dBC	71.6 dBF
SEL:	92.9 dBA	102.8 dBC	104.2 dBF
Peak:	93.8 dBA	100.3 dBC	102.8 dBF
	8/26/2010 7:31	8/26/2010 7:32	8/26/2010 7:32
Lmax (slow):	82.3 dBA	85.0 dBC	86.2 dBF
	8/26/2010 7:31	8/26/2010 7:31	8/26/2010 7:32
Lmin (slow):	48.1 dBA	61.1 dBC	62.8 dBF
	8/26/2010 7:29	8/26/2010 7:48	8/26/2010 7:39
Lmax (fast):	84.7 dBA	88.4 dBC	89.8 dBF
	8/26/2010 7:31	8/26/2010 7:32	8/26/2010 7:32
Lmin (fast):	47.6 dBA	59.6 dBC	61.2 dBF
	8/26/2010 7:37	8/26/2010 7:48	8/26/2010 7:40
Lmax (impulse):	86.3 dBA	91.5 dBC	93.0 dBF
	8/26/2010 7:31	8/26/2010 7:32	8/26/2010 7:30
Lmin (impulse):	47.9 dBA	61.9 dBC	63.6 dBF
	8/26/2010 7:29	8/26/2010 7:48	8/26/2010 7:48

Spectra

Start Time:	26-Aug-10	7:26:36	Run Time:	30:01.1
Freq Hz	Leq 1/1 Oct	Max 1/1 Oct	Min 1/1 Oct	
16	9.1	25.3	-7.4	
31.5	31.3	46.6	11.9	
63	40.9	54.8	24.8	
125	43.3	59.8	29.3	
250	47.1	67.2	32.9	
500	50.3	70.1	38	
1000	52.1	69.6	43.2	
2000	58.2	83.4	36.1	
4000	50	73.5	28.1	
8000	40.9	63.7	29	

SLM & RTA Summary

Translated: 31-Aug-10 11:59:22
 File Translated: C:\Wholley\Projects\New York\Noise Monitoring Data (26 Aug 2010)\26Aug08s.slm
 Model Number: 824
 Serial Number: A0184
 Firmware Rev: 4.283
 Software Version: 3.12
 Name: Enter Company Name
 Descr1: Enter Address Line 1
 Descr2: Enter Address Line 2
 Setup: VHBGen1h.ssa
 Setup Descr: VHB-Gen1hr-1sec
 Location:
 Note 1:
 Note 2:

Overall Any Data

Start Time: 26-Aug-10 8:05:58
 Elapsed Time: 30:00.8

	A Weight	C Weight	Flat
Leq:	69.1 dBA	78.2 dBC	79.1 dBF
SEL:	101.7 dBA	110.8 dBC	111.6 dBF
Peak:	106.4 dBA	105.6 dBC	106.7 dBF
	8/26/2010 8:06	8/26/2010 8:25	8/26/2010 8:06
Lmax (slow):	84.7 dBA	94.4 dBC	95.2 dBF
	8/26/2010 8:25	8/26/2010 8:25	8/26/2010 8:25
Lmin (slow):	55.3 dBA	65.5 dBC	66.6 dBF
	8/26/2010 8:24	8/26/2010 8:10	8/26/2010 8:10
Lmax (fast):	86.8 dBA	97.1 dBC	97.4 dBF
	8/26/2010 8:27	8/26/2010 8:19	8/26/2010 8:19
Lmin (fast):	54.9 dBA	64.3 dBC	65.4 dBF
	8/26/2010 8:06	8/26/2010 8:09	8/26/2010 8:12
Lmax (impulse):	87.6 dBA	97.4 dBC	98.1 dBF
	8/26/2010 8:27	8/26/2010 8:19	8/26/2010 8:06
Lmin (impulse):	55.2 dBA	65.5 dBC	66.7 dBF
	8/26/2010 8:24	8/26/2010 8:16	8/26/2010 8:16

Spectra

Start Time: 26-Aug-10 8:05:58 Run Time: 30:00.8
 Freq Hz Leq 1/1 Oct Max 1/1 Oct Min 1/1 Oct

16	14.5	23.1	-7.4
31.5	36.7	58.5	14.4
63	49.5	66.2	27
125	56.5	71.6	35.9
250	60.6	78	41.5
500	63.1	81.5	44.5
1000	65.1	80.4	49.8
2000	60.8	79.9	44.3
4000	55.2	74.7	35.8
8000	48.2	66.4	32.1
16000	34.5	49.9	28.1

Ln Start Level: 15 dB
 L 1.00 79 dBA
 L 5.00 74.4 dBA
 L 50.00 65.1 dBA
 L 90.00 60.5 dBA
 L 10.00 60.5 dBA
 L 99.00 57.5 dBA

Detector: Slow
 Weighting: A
 SPL Exceedance Level 1: 85.0 dB Exceeded: 0 times
 SPL Exceedance level 2: 66 dB Exceeded: 60 times
 Peak-1 Exceedance Level: 105 dB Exceeded: 1 times
 Peak-2 Exceedance Level: 100 dB Exceeded: 1 times
 Hysteresis: 2
 Overloaded: 0 time(s)
 Paused: 0 times for 00:00:00.0

Current Any Data

Start Time: 26-Aug-10 8:05:58
 Elapsed Time: 30:00.8

	A Weight	C Weight	Flat
Leq:	69.1 dBA	78.2 dBC	79.1 dBF
SEL:	101.7 dBA	110.8 dBC	111.6 dBF
Peak:	106.4 dBA	105.6 dBC	106.7 dBF
	8/26/2010 8:06	8/26/2010 8:25	8/26/2010 8:06

Lmax (slow):	84.7 dBA	94.4 dBC	95.2 dBF
	8/26/2010 8:25	8/26/2010 8:25	8/26/2010 8:25

Lmin (slow):	55.3 dBA	65.5 dBC	66.6 dBF
	8/26/2010 8:24	8/26/2010 8:10	8/26/2010 8:10

Lmax (fast):	86.8 dBA	97.1 dBC	97.4 dBF
	8/26/2010 8:27	8/26/2010 8:19	8/26/2010 8:19

Lmin (fast):	54.9 dBA	64.3 dBC	65.4 dBF
	8/26/2010 8:06	8/26/2010 8:09	8/26/2010 8:12

Lmax (impulse):	87.6 dBA	97.4 dBC	98.1 dBF
	8/26/2010 8:27	8/26/2010 8:19	8/26/2010 8:06

Lmin (impulse):	55.2 dBA	65.5 dBC	66.7 dBF
	8/26/2010 8:24	8/26/2010 8:16	8/26/2010 8:16

Calibrated: 5/7/2000 13:44 Offset: -46.8 dB
 Checked: 8/25/2010 13:58 Level: 114.6 dB
 Calibrator not set Level: 114.0 dB
 Cal Records Count: 0

Interval Records:	Enabled	Number Interval Records:	1
History Records:	Enabled	Number History Records:	1802
Run/Stop Records:		Number Run/Stop Records:	2

SLM & RTA Summary

Translated: 31-Aug-10 11:58:02
 File Translated: C:\Wholley\Projects\New York\Noise Monitoring Data (26 Aug 2010)\26Aug09s.slm
 Model Number: 824
 Serial Number: A0184
 Firmware Rev: 4.283
 Software Version: 3.12
 Name: Enter Company Name
 Descr1: Enter Address Line 1
 Descr2: Enter Address Line 2
 Setup: VHBGen1h.ssa
 Setup Descr: VHB-Gen1hr-1sec
 Location:
 Note 1:
 Note 2:

Overall Any Data

Start Time: 26-Aug-10 8:50:57
 Elapsed Time: 30:00.8

	A Weight	C Weight	Flat
Leq:	70.5 dBA	79.3 dBC	80.0 dBF
SEL:	103.1 dBA	111.8 dBC	112.6 dBF
Peak:	103.0 dBA	107.3 dBC	109.2 dBF
	8/26/2010 9:03	8/26/2010 9:00	8/26/2010 9:00
Lmax (slow):	85.1 dBA	94.7 dBC	95.4 dBF
	8/26/2010 9:16	8/26/2010 9:00	8/26/2010 9:00
Lmin (slow):	54.5 dBA	65.4 dBC	66.5 dBF
	8/26/2010 9:04	8/26/2010 9:20	8/26/2010 9:20
Lmax (fast):	90.0 dBA	97.9 dBC	98.9 dBF
	8/26/2010 9:03	8/26/2010 9:00	8/26/2010 9:00
Lmin (fast):	54.1 dBA	64.0 dBC	65.0 dBF
	8/26/2010 9:04	8/26/2010 9:20	8/26/2010 9:20
Lmax (impulse):	92.7 dBA	98.9 dBC	100.4 dBF
	8/26/2010 9:03	8/26/2010 9:00	8/26/2010 9:00
Lmin (impulse):	54.5 dBA	65.8 dBC	67.0 dBF
	8/26/2010 9:04	8/26/2010 9:20	8/26/2010 9:20

Spectra

Start Time: 26-Aug-10 8:50:57 Run Time: 30:00.8

Freq Hz	Leq 1/1 Oct	Max 1/1 Oct	Min 1/1 Oct
16	13	13.3	-7.4
31.5	36.5	36.9	15.3
63	51.1	55.4	31.1
125	57.5	71.6	36
250	60	74.2	43.2
500	63.3	77.9	46.5
1000	66.6	81.5	48.2
2000	63.6	81.6	42.7
4000	59.4	75.1	33.6
8000	56.4	66.8	31.5
16000	45.8	48.9	28.1

Ln Start Level: 15 dB
 L 1.00 81 dBA
 L 5.00 76.7 dBA

L 50.00 65.1 dBA
 L 90.00 57.9 dBA
 L 10.00 57.9 dBA
 L 99.00 55.4 dBA

Detector: Slow
 Weighting: A
 SPL Exceedance Level 1: 85.0 dB Exceeded: 1 times
 SPL Exceedance level 2: 66 dB Exceeded: 73 times
 Peak-1 Exceedance Level: 105 dB Exceeded: 0 times
 Peak-2 Exceedance Level: 100 dB Exceeded: 2 times
 Hysteresis: 2
 Overloaded: 0 time(s)
 Paused: 0 times for 00:00:00.0

Current Any Data
 Start Time: 26-Aug-10 8:50:57
 Elapsed Time: 30:00.8

	A Weight	C Weight	Flat
Leq:	70.5 dBA	79.3 dBC	80.0 dBF
SEL:	103.1 dBA	111.8 dBC	112.6 dBF
Peak:	103.0 dBA	107.3 dBC	109.2 dBF
	8/26/2010 9:03	8/26/2010 9:00	8/26/2010 9:00

Lmax (slow):	85.1 dBA	94.7 dBC	95.4 dBF
	8/26/2010 9:16	8/26/2010 9:00	8/26/2010 9:00

Lmin (slow):	54.5 dBA	65.4 dBC	66.5 dBF
	8/26/2010 9:04	8/26/2010 9:20	8/26/2010 9:20

Lmax (fast):	90.0 dBA	97.9 dBC	98.9 dBF
	8/26/2010 9:03	8/26/2010 9:00	8/26/2010 9:00

Lmin (fast):	54.1 dBA	64.0 dBC	65.0 dBF
	8/26/2010 9:04	8/26/2010 9:20	8/26/2010 9:20

Lmax (impulse):	92.7 dBA	98.9 dBC	100.4 dBF
	8/26/2010 9:03	8/26/2010 9:00	8/26/2010 9:00

Lmin (impulse):	54.5 dBA	65.8 dBC	67.0 dBF
	8/26/2010 9:04	8/26/2010 9:20	8/26/2010 9:20

Calibrated: 5/7/2000 13:44 Offset: -46.8 dB
 Checked: 8/25/2010 13:58 Level: 114.6 dB
 Calibrator not set Level: 114.0 dB
 Cal Records Count: 0

Interval Records:	Enabled	Number Interval Records:	1
History Records:	Enabled	Number History Records:	1802
Run/Stop Records:		Number Run/Stop Record:	2

SLM & RTA Summary

Translated: 31-Aug-10 11:54:02
 File Translated: C:\Wholley\Projects\New York\Noise Monitoring Data (26 Aug 2010)\26Aug10s.slm
 Model Number: 824
 Serial Number: A0184
 Firmware Rev: 4.283
 Software Version: 3.12
 Name: Enter Company Name
 Descr1: Enter Address Line 1
 Descr2: Enter Address Line 2
 Setup: VHBGen1h.ssa
 Setup Descr: VHB-Gen1hr-1sec
 Location:
 Note 1:
 Note 2:

Overall Any Data

Start Time: 26-Aug-10 9:28:43
 Elapsed Time: 30:00.8

	A Weight	C Weight	Flat	
Leq:	68.9 dBA	75.4 dBC	76.1 dBF	
SEL:	101.5 dBA	107.9 dBC	108.7 dBF	
Peak:	97.4 dBA	102.6 dBC	102.6 dBF	
		8/26/2010 9:36	8/26/2010 9:45	8/26/2010 9:45
Lmax (slow):	82.3 dBA	89.8 dBC	90.4 dBF	
		8/26/2010 9:39	8/26/2010 9:39	8/26/2010 9:39
Lmin (slow):	52.8 dBA	66.0 dBC	67.3 dBF	
		8/26/2010 9:28	8/26/2010 9:58	8/26/2010 9:32
Lmax (fast):	84.5 dBA	91.7 dBC	92.1 dBF	
		8/26/2010 9:36	8/26/2010 9:54	8/26/2010 9:39
Lmin (fast):	52.1 dBA	64.8 dBC	66.0 dBF	
		8/26/2010 9:28	8/26/2010 9:58	8/26/2010 9:32
Lmax (impulse):	86.4 dBA	92.7 dBC	93.1 dBF	
		8/26/2010 9:36	8/26/2010 9:54	8/26/2010 9:54
Lmin (impulse):	52.4 dBA	66.4 dBC	67.8 dBF	
		8/26/2010 9:28	8/26/2010 9:58	8/26/2010 9:32

Spectra

Start Time:	26-Aug-10	9:28:43	Run Time:	30:00.8
Freq Hz	Leq 1/1 Oct	Max 1/1 Oct	Min 1/1 Oct	
16	11.6	17	-7.4	
31.5	31.1	31.8	12.8	
63	46.8	57.4	29.5	
125	52.7	60.9	38.9	
250	57.2	81.5	41	
500	61.5	75	42.6	
1000	66.5	75.2	46.3	
2000	61.2	72.1	41.5	
4000	54.4	65.5	37.2	
8000	47.6	56.4	38.2	
16000	33.3	37.6	27.9	

Ln Start Level: 15 dB
 L 1.00 78.1 dBA
 L 5.00 75 dBA
 L 50.00 63.4 dBA
 L 90.00 56.2 dBA
 L 10.00 56.2 dBA

L 99.00

53.5 dBA

Detector: Slow
 Weighting: A
 SPL Exceedance Level 1: 85.0 dB Exceeded: 0 times
 SPL Exceedance level 2: 66 dB Exceeded: 83 times
 Peak-1 Exceedance Level: 105 dB Exceeded: 0 times
 Peak-2 Exceedance Level: 100 dB Exceeded: 0 times
 Hysteresis: 2
 Overloaded: 0 time(s)
 Paused: 0 times for 00:00:00.0

Current Any Data

Start Time: 26-Aug-10 9:28:43
 Elapsed Time: 30:00.8

	A Weight	C Weight	Flat	
Leq:	68.9 dBA	75.4 dBC	76.1 dBF	
SEL:	101.5 dBA	107.9 dBC	108.7 dBF	
Peak:	97.4 dBA	102.6 dBC	102.6 dBF	
		8/26/2010 9:36	8/26/2010 9:45	8/26/2010 9:45
Lmax (slow):	82.3 dBA	89.8 dBC	90.4 dBF	
		8/26/2010 9:39	8/26/2010 9:39	8/26/2010 9:39
Lmin (slow):	52.8 dBA	66.0 dBC	67.3 dBF	
		8/26/2010 9:28	8/26/2010 9:58	8/26/2010 9:32
Lmax (fast):	84.5 dBA	91.7 dBC	92.1 dBF	
		8/26/2010 9:36	8/26/2010 9:54	8/26/2010 9:39
Lmin (fast):	52.1 dBA	64.8 dBC	66.0 dBF	
		8/26/2010 9:28	8/26/2010 9:58	8/26/2010 9:32
Lmax (impulse):	86.4 dBA	92.7 dBC	93.1 dBF	
		8/26/2010 9:36	8/26/2010 9:54	8/26/2010 9:54
Lmin (impulse):	52.4 dBA	66.4 dBC	67.8 dBF	
		8/26/2010 9:28	8/26/2010 9:58	8/26/2010 9:32
Calibrated:		5/7/2000 13:44 Offset: -46.8 dB		
Checked:		8/25/2010 13:58 Level: 114.6 dB		
Calibrator	not set	Level: 114.0 dB		
Cal Records Count:		0		
Interval Records:	Enabled	Number Interval Records:		1
History Records:	Enabled	Number History Records:		1802
Run/Stop Records:		Number Run/Stop Records:		2