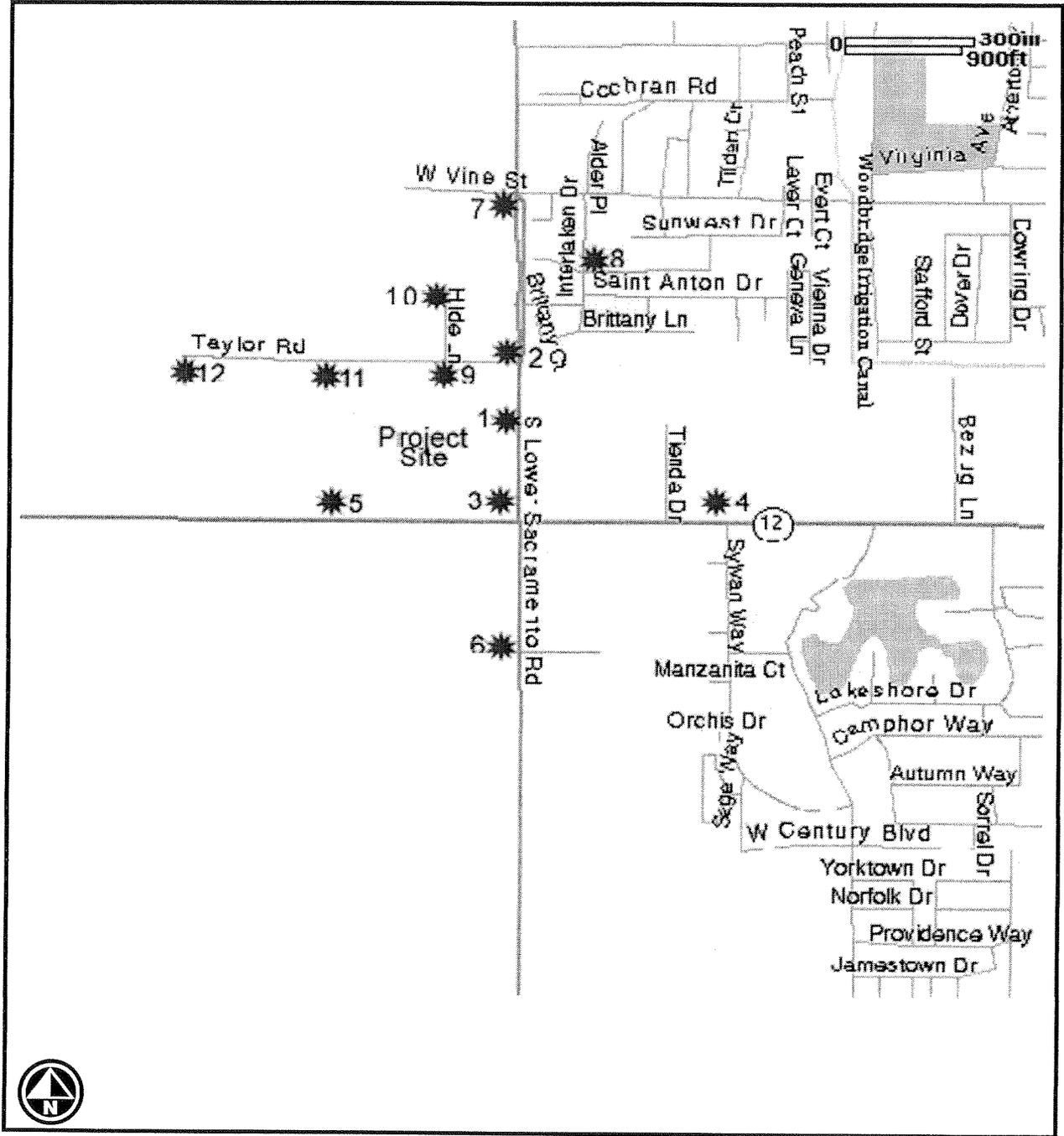


# **Appendix E**

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*Noise Appendices*





Site Number: 1	Date: 12/17/03	By: E. Torres
Time: 7:00 a.m. - 7:15 a.m.		JN 35-100238
General Location: <b>Sunset Marketplace/Lower Sacramento Road – 50' setback from ROW</b>		
Conditions: <b>Overcast, foggy</b>		
Leq = 65.8		
Ldn-a = 65.8	CNEL = 65.8	
Lmin = 50.1		
Max-a = 74.7		
Peak-a = 87.8		
Source of Peak Noise:		

**Directions:**

1. Mount noise meter to tri-pod (microphone must be 5.5 feet from the ground).
2. Point microphone at a 70-degree angle from the noise source.
3. Turn On (lower left button) - wait for "S" to stop blinking.
4. Press "Leq"
5. Press "R/S"
6. Let stand for noise reading to occur (15 min.) Be QUIET
7. Press "R/S"
8. Write down noise readings (Starts with LEQ)
9. Press "Shift", then press "Ldn"- Write down noise reading.
10. Press "Shift", then press "Lmin"- Write down noise reading.
11. Press "Lmax"- Write down noise reading.
12. Press "PEAK" - Write down noise reading.
13. Press "Ln" - Write down noise reading.
14. Press "Shift", then Press "Reset"
15. Press "Reset" again. Go to next site. (Start at #3)

**Picture of Location**



Site Number: 2	Date: 12/17/03	By: E. Torres
Time: 7:20 a.m. - 7:35 a.m.		JN 35-100238
General Location: <b>Taylor Road/Lower Sacramento Road – 50' setback from intersection midpoint</b>		
Conditions: <b>Overcast, foggy</b>		
Leq = 64.0		
Ldn-a = 64.0	CNEL = 64.0	
Lmin = 45.6		
Max-a = 73.2		
Peak-a = 87.6		
Source of Peak Noise:		

**Directions:**

1. Mount noise meter to tri-pod (microphone must be 5.5 feet from the ground).
2. Point microphone at a 70-degree angle from the noise source.
3. Turn On (lower left button) - wait for "S" to stop blinking.
4. Press "Leq"
5. Press "R/S"
6. Let stand for noise reading to occur (15 min.) Be QUIET
7. Press "R/S"
8. Write down noise readings (Starts with LEQ)
9. Press "Shift", then press "Ldn"- Write down noise reading.
10. Press "Shift", then press "Lmin"- Write down noise reading.
11. Press "Lmax"- Write down noise reading.
12. Press "PEAK" - Write down noise reading.
13. Press "Ln" - Write down noise reading.
14. Press "Shift", then Press "Reset"
15. Press "Reset" again. Go to next site. (Start at #3)

**Picture of Location**

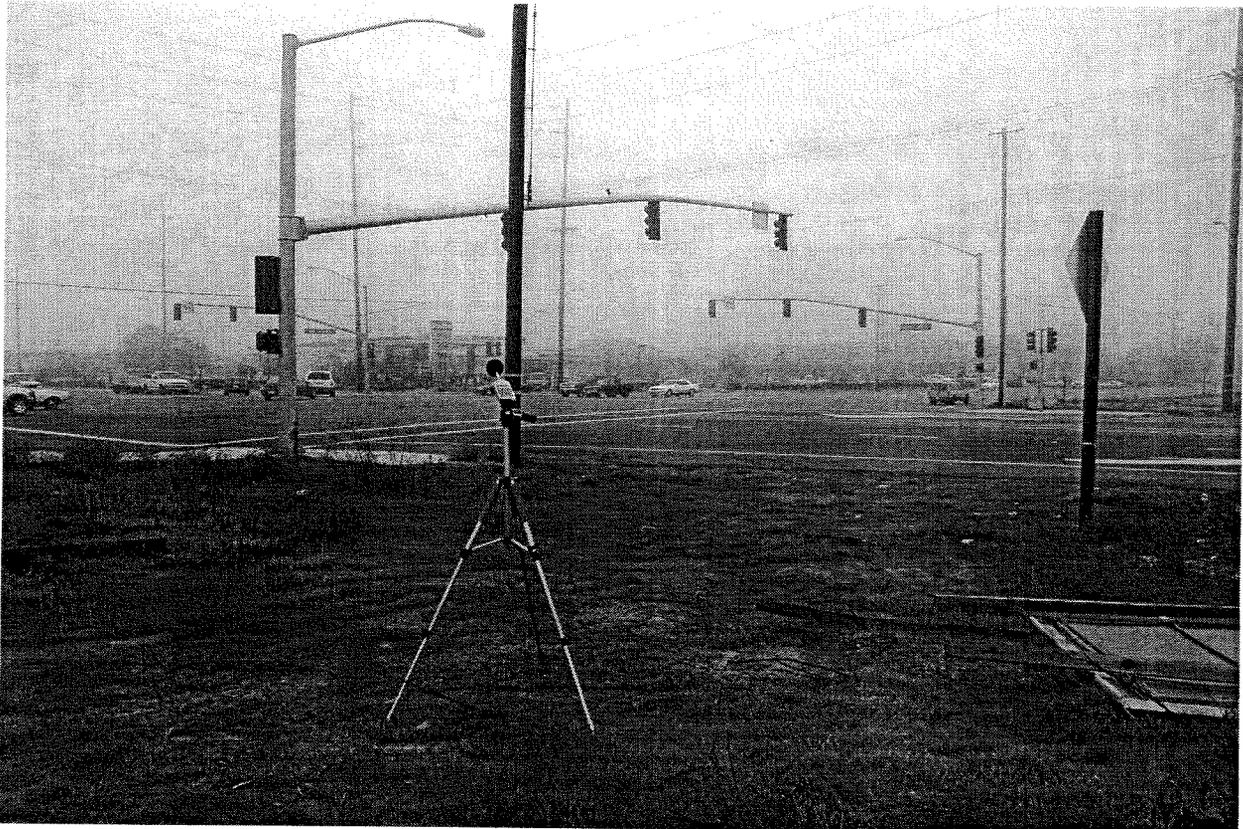


Site Number: <b>3</b>	Date: <b>12/17/03</b>	By: <b>E. Torres</b>
Time: <b>7:40 a.m. - 7:55 a.m.</b>		<b>JN 35-100238</b>
General Location: <b>Kettleman Lane/Lower Sacramento Road</b>		
Conditions: <b>Overcast, foggy</b>		
Leq = <b>65.8</b>		
Ldn-a = <b>65.8</b>	CNEL = <b>70.5</b>	
Lmin = <b>52.7</b>		
Max-a = <b>74.3</b>		
Peak-a = <b>86.4</b>		
Source of Peak Noise:		

**Directions:**

1. Mount noise meter to tri-pod (microphone must be 5.5 feet from the ground).
2. Point microphone at a 70-degree angle from the noise source.
3. Turn On (lower left button) - wait for "S" to stop blinking.
4. Press "Leq"
5. Press "R/S"
6. Let stand for noise reading to occur (15 min.) Be QUIET
7. Press "R/S"
8. Write down noise readings (Starts with LEQ)
9. Press "Shift", then press "Ldn"- Write down noise reading.
10. Press "Shift", then press "Lmin"- Write down noise reading.
11. Press "Lmax"- Write down noise reading.
12. Press "PEAK" - Write down noise reading.
13. Press "Ln" - Write down noise reading.
14. Press "Shift", then Press "Reset"
15. Press "Reset" again. Go to next site. (Start at #3)

**Picture of Location**



Site Number: 4	Date: 12/17/03	By: E. Torres
Time: 8:00 a.m. – 8:15 a.m.		JN 35-100238
General Location: Mills/Kettleman Lane		
Conditions: Overcast, foggy		
Leq = 69.0		
Ldn-a = 69.0	CNEL = 69.0	
Lmin = 59.3		
Max-a = 78.6		
Peak-a = 93.4		
Source of Peak Noise:		

**Directions:**

1. Mount noise meter to tri-pod (microphone must be 5.5 feet from the ground).
2. Point microphone at a 70-degree angle from the noise source.
3. Turn On (lower left button) - wait for "S" to stop blinking.
4. Press "Leq"
5. Press "R/S"
6. Let stand for noise reading to occur (15 min.) Be QUIET
7. Press "R/S"
8. Write down noise readings (Starts with LEQ)
9. Press "Shift", then press "Ldn" - Write down noise reading.
10. Press "Shift", then press "Lmin" - Write down noise reading.
11. Press "Lmax" - Write down noise reading.
12. Press "PEAK" - Write down noise reading.
13. Press "Ln" - Write down noise reading.
14. Press "Shift", then Press "Reset"
15. Press "Reset" again. Go to next site. (Start at #3)

**Picture of Location**



Site Number: 5	Date: 12/17/03	By: E. Torres
Time: 8:20 a.m. – 8:35 a.m.		JN 35-100238
General Location: <b>Kettleman Lane – southwest corner of property</b>		
Conditions: <b>Overcast, foggy</b>		
Leq = 70.0		
Ldn-a = 70.0	CNEL = 82.5	
Lmin = 51.7		
Max-a = 84.9		
Peak-a = 96.0		
Source of Peak Noise:		

**Directions:**

1. Mount noise meter to tri-pod (microphone must be 5.5 feet from the ground).
2. Point microphone at a 70-degree angle from the noise source.
3. Turn On (lower left button) - wait for "S" to stop blinking.
4. Press "Leq"
5. Press "R/S"
6. Let stand for noise reading to occur (15 min.) Be QUIET
7. Press "R/S"
8. Write down noise readings (Starts with LEQ)
9. Press "Shift", then press "Ldn" - Write down noise reading.
10. Press "Shift", then press "Lmin" - Write down noise reading.
11. Press "Lmax" - Write down noise reading.
12. Press "PEAK" - Write down noise reading.
13. Press "Ln" - Write down noise reading.
14. Press "Shift", then Press "Reset"
15. Press "Reset" again. Go to next site. (Start at #3)

**Picture of Location**



Site Number: <b>6</b>	Date: <b>12/17/03</b>	By: <b>E. Torres</b>
Time: <b>8:40 a.m. – 8:55 a.m.</b>		<b>JN 35-100238</b>
General Location: <b>Lower Sacramento Road – just south of East Olive Avenue</b>		
Conditions: <b>Overcast, foggy</b>		
Leq = <b>69.1</b>		
Ldn-a = <b>69.1</b>	CNEL = <b>73.9</b>	
Lmin = <b>48.3</b>		
Max-a = <b>78.5</b>		
Peak-a = <b>92.2</b>		
Source of Peak Noise:		

**Directions:**

1. Mount noise meter to tri-pod (microphone must be 5.5 feet from the ground).
2. Point microphone at a 70-degree angle from the noise source.
3. Turn On (lower left button) - wait for "S" to stop blinking.
4. Press "Leq"
5. Press "R/S"
6. Let stand for noise reading to occur (15 min.) Be QUIET
7. Press "R/S"
8. Write down noise readings (Starts with LEQ)
9. Press "Shift", then press "Ldn"- Write down noise reading.
10. Press "Shift", then press "Lmin"- Write down noise reading.
11. Press "Lmax"- Write down noise reading.
12. Press "PEAK" - Write down noise reading.
13. Press "Ln" - Write down noise reading.
14. Press "Shift", then Press "Reset"
15. Press "Reset" again. Go to next site. (Start at #3)

**Picture of Location**

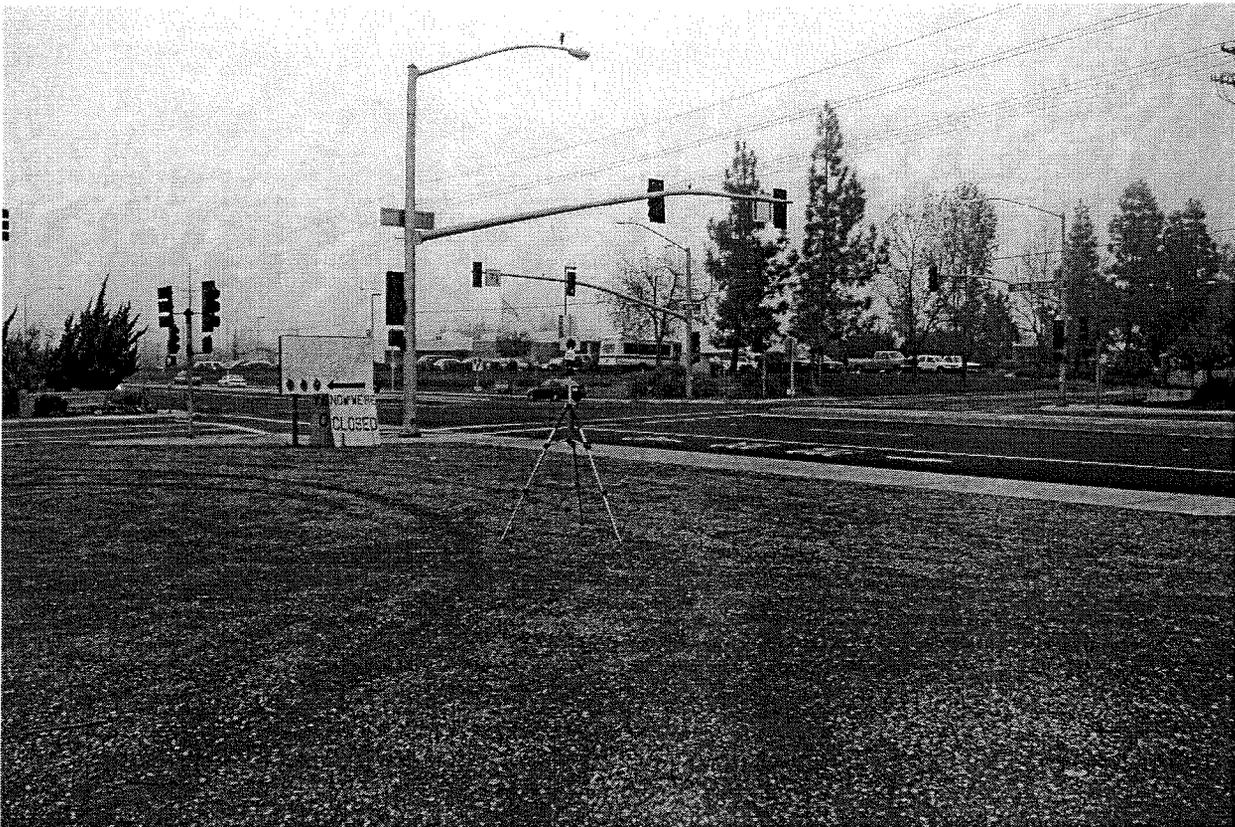


Site Number: 7	Date: 12/17/03	By: E. Torres
Time: 4:00 p.m. – 4:15 p.m.		JN 35-100238
General Location: Lower Sacramento Road and Vine		
Conditions: Overcast, foggy		
Leq = 67.8		
Ldn-a = 67.8	CNEL = 72.6	
Lmin = 48.3		
Max-a = 82.1		
Peak-a = 93.2		
Source of Peak Noise:		

**Directions:**

1. Mount noise meter to tri-pod (microphone must be 5.5 feet from the ground).
2. Point microphone at a 70-degree angle from the noise source.
3. Turn On (lower left button) - wait for "S" to stop blinking.
4. Press "Leq"
5. Press "R/S"
6. Let stand for noise reading to occur (15 min.) Be QUIET
7. Press "R/S"
8. Write down noise readings (Starts with LEQ)
9. Press "Shift", then press "Ldn" - Write down noise reading.
10. Press "Shift", then press "Lmin" - Write down noise reading.
11. Press "Lmax" - Write down noise reading.
12. Press "PEAK" - Write down noise reading.
13. Press "Ln" - Write down noise reading.
14. Press "Shift", then Press "Reset"
15. Press "Reset" again. Go to next site. (Start at #3)

**Picture of Location**



Site Number: 8	Date: 12/17/03	By: E. Torres
Time: 4:20 p.m. – 4:35 p.m.		JN 35-100238
General Location: <b>St. Moritz/Interlake</b>		
Conditions: <b>Overcast, foggy</b>		
Leq = <b>41.6</b>		
Ldn-a = <b>41.6</b>	CNEL = <b>46.3</b>	
Lmin = <b>36.5</b>		
Max-a = <b>49.6</b>		
Peak-a = <b>71.0</b>		
Source of Peak Noise:		

**Directions:**

1. Mount noise meter to tri-pod (microphone must be 5.5 feet from the ground).
2. Point microphone at a 70-degree angle from the noise source.
3. Turn On (lower left button) - wait for "S" to stop blinking.
4. Press "Leq"
5. Press "R/S"
6. Let stand for noise reading to occur (15 min.) Be QUIET
7. Press "R/S"
8. Write down noise readings (Starts with LEQ)
9. Press "Shift", then press "Ldn"- Write down noise reading.
10. Press "Shift", then press "Lmin"- Write down noise reading.
11. Press "Lmax"- Write down noise reading.
12. Press "PEAK" - Write down noise reading.
13. Press "Ln" - Write down noise reading.
14. Press "Shift", then Press "Reset"
15. Press "Reset" again. Go to next site. (Start at #3)

**Picture of Location**



Site Number: 9	Date: 12/17/03	By: E. Torres
Time: 4:40 p.m. – 4:55 p.m.		JN 35-100238
General Location: Hilde Lane/Taylor Road		
Conditions: Overcast, foggy		
Leq = 44.5		
Ldn-a = 44.5	CNEL = 44.5	
Lmin = 37.3		
Max-a = 63.0		
Peak-a = 87.9		
Source of Peak Noise:		

**Directions:**

1. Mount noise meter to tri-pod (microphone must be 5.5 feet from the ground).
2. Point microphone at a 70-degree angle from the noise source.
3. Turn On (lower left button) - wait for "S" to stop blinking.
4. Press "Leq"
5. Press "R/S"
6. Let stand for noise reading to occur (15 min.) Be QUIET
7. Press "R/S"
8. Write down noise readings (Starts with LEQ)
9. Press "Shift", then press "Ldn"- Write down noise reading.
10. Press "Shift", then press "Lmin"- Write down noise reading.
11. Press "Lmax"- Write down noise reading.
12. Press "PEAK" - Write down noise reading.
13. Press "Ln" - Write down noise reading.
14. Press "Shift", then Press "Reset"
15. Press "Reset" again. Go to next site. (Start at #3)

**Picture of Location**



Site Number: 10	Date: 12/17/03	By: E. Torres
Time: 5:00 p.m. – 5:15 p.m.		JN 35-100238
General Location: End of Hilde Lane		
Conditions: Overcast, foggy		
Leq = 41.5		
Ldn-a = 41.5	CNEL = 41.5	
Lmin = 37.4		
Max-a = 52.0		
Peak-a = 72.2		
Source of Peak Noise:		

**Directions:**

1. Mount noise meter to tri-pod (microphone must be 5.5 feet from the ground).
2. Point microphone at a 70-degree angle from the noise source.
3. Turn On (lower left button) - wait for "S" to stop blinking.
4. Press "Leq"
5. Press "R/S"
6. Let stand for noise reading to occur (15 min.) Be QUIET
7. Press "R/S"
8. Write down noise readings (Starts with LEQ)
9. Press "Shift", then press "Ldn"- Write down noise reading.
10. Press "Shift", then press "Lmin"- Write down noise reading.
11. Press "Lmax"- Write down noise reading.
12. Press "PEAK" - Write down noise reading.
13. Press "Ln" - Write down noise reading.
14. Press "Shift", then Press "Reset"
15. Press "Reset" again. Go to next site. (Start at #3)

**Picture of Location**

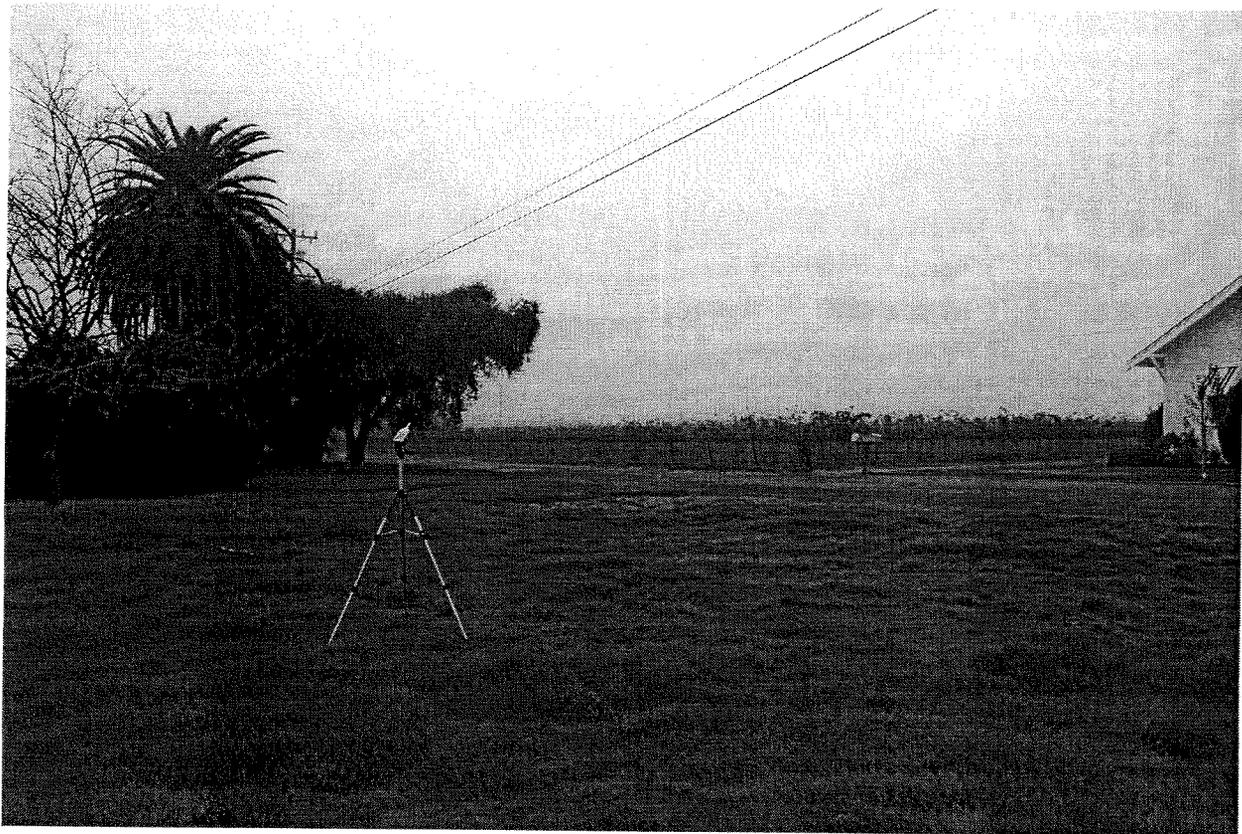


Site Number: 11	Date: 12/17/03	By: E. Torres
Time: 5:20 p.m. – 5:35 p.m.		JN 35-100238
General Location: <b>Midpoint of Taylor Road</b>		
Conditions: <b>Overcast, foggy</b>		
Leq = 37.8		
Ldn-a = 37.8	CNEL = 37.8	
Lmin = 34.3		
Max-a = 52.8		
Peak-a = 69.7		
Source of Peak Noise:		

**Directions:**

1. Mount noise meter to tri-pod (microphone must be 5.5 feet from the ground).
2. Point microphone at a 70-degree angle from the noise source.
3. Turn On (lower left button) - wait for "S" to stop blinking.
4. Press "Leq"
5. Press "R/S"
6. Let stand for noise reading to occur (15 min.) Be QUIET
7. Press "R/S"
8. Write down noise readings (Starts with LEQ)
9. Press "Shift", then press "Ldn"- Write down noise reading.
10. Press "Shift", then press "Lmin"- Write down noise reading.
11. Press "Lmax"- Write down noise reading.
12. Press "PEAK" - Write down noise reading.
13. Press "Ln" - Write down noise reading.
14. Press "Shift", then Press "Reset"
15. Press "Reset" again. Go to next site. (Start at #3)

**Picture of Location**



Site Number: 12	Date: 12/17/03	By: E. Torres
Time: 5:40 p.m. – 5:55 p.m.		JN 35-100238
General Location: <b>End of Taylor Road</b>		
Conditions: <b>Overcast, foggy</b>		
Leq = <b>43.7</b>		
Ldn-a = <b>43.7</b>	CNEL = <b>43.7</b>	
Lmin = <b>38.9</b>		
Max-a = <b>49.4</b>		
Peak-a = <b>79.3</b>		
Source of Peak Noise:		

**Directions:**

1. Mount noise meter to tri-pod (microphone must be 5.5 feet from the ground).
2. Point microphone at a 70-degree angle from the noise source.
3. Turn On (lower left button) - wait for "S" to stop blinking.
4. Press "Leq"
5. Press "R/S"
6. Let stand for noise reading to occur (15 min.) Be QUIET
7. Press "R/S"
8. Write down noise readings (Starts with LEQ)
9. Press "Shift", then press "Ldn" - Write down noise reading.
10. Press "Shift", then press "Lmin" - Write down noise reading.
11. Press "Lmax" - Write down noise reading.
12. Press "PEAK" - Write down noise reading.
13. Press "Ln" - Write down noise reading.
14. Press "Shift", then Press "Reset"
15. Press "Reset" again. Go to next site. (Start at #3)

**Picture of Location**



**Kettleman Lane - West of Lower Sacto - Existing**

```

////////////////////////////////////
// Speed                Vehicle Speed (mph, 0 to 100)           45           //
// Grad                 Road Gradient (% , 0 to 6)              //
// Sep1                 Centerline Separation (feet)            12           //
//      with            >>      (Usually 23' for 2-lane, 38'     //
//      median          >>      for 4-lane, 50' for 6-lane)      //
// Dist1                Distance from observer to the           100          //
//                      nearest lane centerline (>50')          //
//                      (used in calculations)                  //
// Dist2                Dist. from ROW to NLC                    6            //
//                      *** CNEL @ 100' (SOFT)                  61.62        //
// VOL                  TOTAL Vehicle Volume (two-way)          9,800        //
// ALPHA                Hard site=0, Soft site=0.5              0.5          //

```

	DISTANCE FROM		RESULTS	DISTANCE FROM	
	Cntrline	ROW		Centerline	ROW
	295	283	<-- hard 60 CNEL soft --->	136	124
	93	81	65 CNEL	63	51
	29	18	70 CNEL	29	17
//					
// View			View Angle of Observer (180)	180	
//			SHIELDING (adjust output by hand)		
//			~~~~~		
// Woods			Thickness of woodland between	0	
//			observer and road (feet)		
// Cover			Percent view coverage between	0	
//			observer and road (0-100)		
// Rows			Building rows between observer	0	
//			and roadway (0-4).		

**Kettleman Lane - East of Lower Sacto - Existing**

```

////////////////////////////////////
// Speed                Vehicle Speed (mph, 0 to 100)           45           //
// Grad                 Road Gradient (% , 0 to 6)              //
// Sep1                 Centerline Separation (feet)           30           //
//   with               >> (Usually 23' for 2-lane, 38'         //
//   median              >> for 4-lane, 50' for 6-lane)         //
// Dist1                Distance from observer to the          100          //
//                     nearest lane centerline (>50')         //
//                     (used in calculations)                 //
// Dist2                Dist. from ROW to NLC                  15           //
//                     *** CNEL @ 100' (SOFT)                 65.12        //
// VOL                  TOTAL Vehicle Volume (two-way)         24,500       //
// ALPHA                Hard site=0, Soft site=0.5             0            //

```

DISTANCE FROM		RESULTS	DISTANCE FROM	
Cntrline	ROW		Centerline	ROW
736	707	<-- hard 60 CNEL soft --->	250	221
233	204	65 CNEL	116	87
74	45	70 CNEL	54	25

```

//
// View                View Angle of Observer (180)           180          //
//                     SHIELDING (adjust output by hand)       //
//                     ~~~~~~                                  //
// Woods               Thickness of woodland between          0            //
//                     observer and road (feet)                //
// Cover               Percent view coverage between          0            //
//                     observer and road (0-100)               //
// Rows               Building rows between observer          0            //
//                     and roadway (0-4).                      //
////////////////////////////////////

```

**Lower Sacto - South of Kettleman - Existing**

```

////////////////////////////////////
// Speed          Vehicle Speed (mph, 0 to 100)          45          //
// Grad           Road Gradient (% , 0 to 6)              //
// Sep1          Centerline Separation (feet)             12          //
//               with      >>      (Usually 23' for 2-lane, 38' //
//               median    >>      for 4-lane, 50' for 6-lane) //
// Dist1         Distance from observer to the           100         //
//               nearest lane centerline (>50')          //
//               (used in calculations)                  //
// Dist2         Dist. from ROW to NLC                    6          //
//               *** CNEL @ 100' (SOFT)                 62.05       //
// VOL           TOTAL Vehicle Volume (two-way)          10,800      //
// ALPHA        Hard site=0, Soft site=0.5              0.5         //

```

DISTANCE FROM		RESULTS	DISTANCE FROM	
Cntrline	ROW		Centerline	ROW
325	313	<-- hard 60 CNEL soft --->	145	133
103	91	65 CNEL	67	55
32	21	70 CNEL	31	19

```

//
// View          View Angle of Observer (180)            180         //
//               SHIELDING (adjust output by hand)      //
//               ~~~~~~                                  //
// Woods         Thickness of woodland between           0          //
//               observer and road (feet)                //
// Cover         Percent view coverage between           0          //
//               observer and road (0-100)              //
// Rows         Building rows between observer           0          //
//               and roadway (0-4).                     //
////////////////////////////////////

```

**Lower Sacto - between Taylor and Kettleman - Existing**

```

////////////////////////////////////
// Speed          Vehicle Speed (mph, 0 to 100)      45          //
// Grad           Road Gradient (% , 0 to 6)         //
// Sep1           Centerline Separation (feet)        30          //
//               with      >>      (Usually 23' for 2-lane, 38' //
//               median    >>      for 4-lane, 50' for 6-lane) //
// Dist1          Distance from observer to the      100         //
//               nearest lane centerline (>50') //
//               (used in calculations) //
// Dist2          Dist. from ROW to NLC              15          //
//               *** CNEL @ 100' (SOFT) 63.8 //
// VOL            TOTAL Vehicle Volume (two-way)     18,100 //
// ALPHA         Hard site=0, Soft site=0.5         0.5 //

```

DISTANCE FROM		R E S U L T S			DISTANCE FROM	
Cntrline	ROW				Centerline	ROW
545	515	<-- hard	60 CNEL	soft --->	204	175
172	143		65 CNEL		95	66
54	25		70 CNEL		44	15
//						
//	View	View Angle of Observer (180)			180	//
//		SHIELDING (adjust output by hand)				//
//		~~~~~				//
//	Woods	Thickness of woodland between			0	//
//		observer and road (feet)				//
//	Cover	Percent view coverage between			0	//
//		observer and road (0-100)				//
//	Rows	Building rows between observer			0	//
//		and roadway (0-4).				//
////////////////////////////////////						

**Kettleman Lane - West of Lower Sacto - Existing + Approved**

```

////////////////////////////////////
// Speed          Vehicle Speed (mph, 0 to 100)      45          //
// Grad           Road Gradient (% , 0 to 6)         //
// Sep1          Centerline Separation (feet)        12          //
//               with      >>      (Usually 23' for 2-lane, 38' //
//               median    >>      for 4-lane, 50' for 6-lane) //
// Dist1         Distance from observer to the       100         //
//               nearest lane centerline (>50')     //
//               (used in calculations)             //
// Dist2         Dist. from ROW to NLC                6          //
//               *** CNEL @ 100' (SOFT)            61.96      //
// VOL           TOTAL Vehicle Volume (two-way)      10,580     //
// ALPHA        Hard site=0, Soft site=0.5          0          //

```

DISTANCE FROM		RESULTS	DISTANCE FROM	
Cntrline	ROW		Centerline	ROW
318	306	<-- hard 60 CNEL soft --->	143	131
101	89	65 CNEL	66	55
32	20	70 CNEL	31	19

```

//
// View          View Angle of Observer (180)        180         //
//               SHIELDING (adjust output by hand) //
//               ~~~~~ //
// Woods         Thickness of woodland between       0          //
//               observer and road (feet)           //
// Cover         Percent view coverage between       0          //
//               observer and road (0-100)         //
// Rows         Building rows between observer       0          //
//               and roadway (0-4).                //
////////////////////////////////////

```

**Kettleman Lane - East of Lower Sacto - Existing + Approved**

```

////////////////////////////////////
// Speed          Vehicle Speed (mph, 0 to 100)          45          //
// Grad           Road Gradient (% , 0 to 6)             //
// Sep1          Centerline Separation (feet)            30          //
//               with      >>      (Usually 23' for 2-lane, 38' //
//               median    >>      for 4-lane, 50' for 6-lane) //
// Dist1         Distance from observer to the          100         //
//               nearest lane centerline (>50')         //
//               (used in calculations)                 //
// Dist2         Dist. from ROW to NLC                   15          //
//               *** CNEL @ 100' (SOFT)                65.31       //
// VOL           TOTAL Vehicle Volume (two-way)         25,610      //
// ALPHA        Hard site=0, Soft site=0.5              0           //

```

DISTANCE FROM		R E S U L T S		DISTANCE FROM	
Cntrline	ROW			Centerline	ROW
771	742	<-- hard	60 CNEL soft --->	258	229
244	215		65 CNEL	120	91
77	48		70 CNEL	56	26

```

//
// View          View Angle of Observer (180)           180         //
//               SHIELDING (adjust output by hand)     //
//               ~~~~~~                               //
// Woods         Thickness of woodland between         0           //
//               observer and road (feet)              //
// Cover         Percent view coverage between         0           //
//               observer and road (0-100)             //
// Rows         Building rows between observer         0           //
//               and roadway (0-4).                    //
////////////////////////////////////

```

**Lower Sacto - between Taylor and Kettleman - Existing + Approved**

```

////////////////////////////////////
// Speed          Vehicle Speed (mph, 0 to 100)      45          //
// Grad           Road Gradient (% , 0 to 6)         //
// Sep1          Centerline Separation (feet)        30          //
//      with      >>      (Usually 23' for 2-lane, 38' //
//      median    >>      for 4-lane, 50' for 6-lane) //
// Dist1         Distance from observer to the       100         //
//              nearest lane centerline (>50')      //
//              (used in calculations)              //
// Dist2         Dist. from ROW to NLC               15          //
//              *** CNEL @ 100' (SOFT)             63.98       //
// VOL           TOTAL Vehicle Volume (two-way)     18,845      //
// ALPHA        Hard site=0, Soft site=0.5         0          //
  
```

DISTANCE FROM		R E S U L T S	DISTANCE FROM	
Cntrline	ROW		Centerline	ROW
566	537	<-- hard 60 CNEL soft --->	210	181
179	150	65 CNEL	98	68
57	28	70 CNEL	45	16

```

//
// View          View Angle of Observer (180)        180         //
//              SHIELDING (adjust output by hand)    //
//              ~~~~~~                               //
// Woods         Thickness of woodland between      0          //
//              observer and road (feet)            //
// Cover         Percent view coverage between      0          //
//              observer and road (0-100)           //
// Rows         Building rows between observer     0          //
//              and roadway (0-4).                  //
////////////////////////////////////
  
```

**Lower Sacto - South of Kettleman - Existing + Approved**

```

////////////////////////////////////
// Speed          Vehicle Speed (mph, 0 to 100)      45          //
// Grad           Road Gradient (% , 0 to 6)         //
// Sep1          Centerline Separation (feet)        12          //
//               with      >>      (Usually 23' for 2-lane, 38' //
//               median    >>      for 4-lane, 50' for 6-lane) //
// Dist1         Distance from observer to the       100         //
//               nearest lane centerline (>50')     //
//               (used in calculations)             //
// Dist2         Dist. from ROW to NLC               6           //
//               *** CNEL @ 100' (SOFT)            62.39      //
// VOL           TOTAL Vehicle Volume (two-way)     11,695     //
// ALPHA        Hard site=0, Soft site=0.5         0           //

```

DISTANCE FROM		R E S U L T S	DISTANCE FROM	
Cntrline	ROW		Centerline	ROW
351	339	<b>&lt;-- hard 60 CNEL soft ---&gt;</b>	<b>153</b>	<b>141</b>
111	99	<b>65 CNEL</b>	<b>71</b>	<b>59</b>
35	23	<b>70 CNEL</b>	<b>33</b>	<b>21</b>
//				//
//	View	View Angle of Observer (180)	180	//
//		SHIELDING (adjust output by hand)		//
//		~~~~~		//
//	Woods	Thickness of woodland between	0	//
//		observer and road (feet)		//
//	Cover	Percent view coverage between	0	//
//		observer and road (0-100)		//
//	Rows	Building rows between observer	0	//
//		and roadway (0-4).		//
////////////////////////////////////				



**Kettleman Lane - East of Lower Sacto - Existing + Approved + Project**

```

////////////////////////////////////
// Speed                Vehicle Speed (mph, 0 to 100)           45           //
// Grad                 Road Gradient (% , 0 to 6)              //
// Sep1                 Centerline Separation (feet)            30           //
//      with            >>   (Usually 23' for 2-lane, 38'         //
//      median          >>   for 4-lane, 50' for 6-lane)         //
// Dist1                Distance from observer to the           100          //
//                      nearest lane centerline (>50')         //
//                      (used in calculations)                  //
// Dist2                Dist. from ROW to NLC                   15           //
//                      *** CNEL @ 100' (SOFT)                 66.01        //
// VOL                  TOTAL Vehicle Volume (two-way)          30,095       //
// ALPHA                Hard site=0, Soft site=0.5              0            //

```

DISTANCE FROM		R E S U L T S			DISTANCE FROM	
Cntrline	ROW				Centerline	ROW
906	877	<-- hard 60 CNEL soft --->			287	258
286	257	65 CNEL			133	104
91	62	70 CNEL			62	33
//						
//	View	View Angle of Observer (180)			180	//
//		SHIELDING (adjust output by hand)				//
//		~~~~~				//
//	Woods	Thickness of woodland between			0	//
//		observer and road (feet)				//
//	Cover	Percent view coverage between			0	//
//		observer and road (0-100)				//
//	Rows	Building rows between observer			0	//
//		and roadway (0-4).				//
////////////////////////////////////						

**Lower Sacto - between Taylor and Kettleman - Existing + Approved + Project**

```

////////////////////////////////////
// Speed                Vehicle Speed (mph, 0 to 100)           45           //
// Grad                 Road Gradient (% , 0 to 6)              //
// Sep1                 Centerline Separation (feet)            30           //
//   with               >>   (Usually 23' for 2-lane, 38'       //
//   median              >>   for 4-lane, 50' for 6-lane)       //
// Dist1                Distance from observer to the           100          //
//                      nearest lane centerline (>50')         //
//                      (used in calculations)                 //
// Dist2                Dist. from ROW to NLC                   15           //
//                      *** CNEL @ 100' (SOFT)                 65.04        //
// VOL                  TOTAL Vehicle Volume (two-way)          24,075       //
// ALPHA                Hard site=0, Soft site=0.5              0            //

```

DISTANCE FROM		RESULTS	DISTANCE FROM	
Cntrline	ROW		Centerline	ROW
724	695	<-- hard 60 CNEL soft --->	247	218
229	200	65 CNEL	115	86
72	43	70 CNEL	53	24

```

//
// View                View Angle of Observer (180)             180          //
//                      SHIELDING (adjust output by hand)       //
//                      ~~~~~~                                   //
// Woods              Thickness of woodland between             0            //
//                      observer and road (feet)                 //
// Cover              Percent view coverage between             0            //
//                      observer and road (0-100)                //
// Rows              Building rows between observer             0            //
//                      and roadway (0-4).                       //
////////////////////////////////////

```

**Lower Sacto - South of Kettleman - Existing + Approved + Project**

```

////////////////////////////////////
// Speed          Vehicle Speed (mph, 0 to 100)      45          //
// Grad           Road Gradient (% , 0 to 6)         //
// Sep1          Centerline Separation (feet)        12          //
//               with      >>      (Usually 23' for 2-lane, 38' //
//               median    >>      for 4-lane, 50' for 6-lane) //
// Dist1         Distance from observer to the       100         //
//               nearest lane centerline (>50')     //
//               (used in calculations)             //
// Dist2         Dist. from ROW to NLC              6          //
//               *** CNEL @ 100' (SOFT)            63.15      //
// VOL          TOTAL Vehicle Volume (two-way)      13,935     //
// ALPHA        Hard site=0, Soft site=0.5         0          //
  
```

	DISTANCE FROM		RESULTS	DISTANCE FROM	
	Cntrline	ROW		Centerline	ROW
	419	408	<-- hard 60 CNEL soft -->	172	160
	133	121	65 CNEL	80	68
	42	30	70 CNEL	37	25
//					//
// View			View Angle of Observer (180)	180	//
//			SHIELDING (adjust output by hand)		//
//			~~~~~		//
// Woods			Thickness of woodland between	0	//
//			observer and road (feet)		//
// Cover			Percent view coverage between	0	//
//			observer and road (0-100)		//
// Rows			Building rows between observer	0	//
//			and roadway (0-4).		//
////////////////////////////////////					////////////////////////////////////

**Kettleman Lane - West of Lower Sacto - Future**

```

////////////////////////////////////
// Speed                Vehicle Speed (mph, 0 to 100)           45           //
// Grad                 Road Gradient (% , 0 to 6)              //
// Sep1                 Centerline Separation (feet)            12           //
//      with            >>      (Usually 23' for 2-lane, 38'      //
//      median          >>      for 4-lane, 50' for 6-lane)      //
// Dist1                Distance from observer to the           100          //
//                      nearest lane centerline (>50')          //
//                      (used in calculations)                  //
// Dist2                Dist. from ROW to NLC                   6            //
//                      *** CNEL @ 100' (SOFT)                  65.14        //
// VOL                  TOTAL Vehicle Volume (two-way)          22,000       //
// ALPHA                Hard site=0, Soft site=0.5              0            //

```

DISTANCE FROM		RESULTS	DISTANCE FROM	
Cntrline	ROW		Centerline	ROW
662	650	<-- hard 60 CNEL soft --->	233	221
209	197	65 CNEL	108	96
66	54	70 CNEL	50	38

```

//
// View                View Angle of Observer (180)             180          //
//                      SHIELDING (adjust output by hand)        //
//                      ~~~~~~                                  //
// Woods               Thickness of woodland between            0            //
//                      observer and road (feet)                  //
// Cover               Percent view coverage between            0            //
//                      observer and road (0-100)                 //
// Rows               Building rows between observer            0            //
//                      and roadway (0-4).                          //
////////////////////////////////////

```

**Kettleman Lane - East of Lower Sacto - Future**

```

////////////////////////////////////
// Speed                Vehicle Speed (mph, 0 to 100)           45           //
// Grad                 Road Gradient (% , 0 to 6)              //
// Sep1                 Centerline Separation (feet)           30           //
//   with               >>   (Usually 23' for 2-lane, 38'       //
//   median             >>   for 4-lane, 50' for 6-lane)         //
// Dist1                Distance from observer to the          100          //
//                     nearest lane centerline (>50')          //
//                     (used in calculations)                  //
// Dist2                Dist. from ROW to NLC                   15           //
//                     *** CNEL @ 100' (SOFT)                  66.2         //
// VOL                  TOTAL Vehicle Volume (two-way)          31,400       //
// ALPHA                Hard site=0, Soft site=0.5              0            //

```

DISTANCE FROM		R E S U L T S		DISTANCE FROM	
Cntrline	ROW			Centerline	ROW
944	915	<-- hard	60 CNEL soft --->	295	266
299	270		65 CNEL	137	108
94	65		70 CNEL	64	35

```

//
// View                View Angle of Observer (180)             180          //
//                     SHIELDING (adjust output by hand)        //
//                     ~~~~~~                                   //
// Woods              Thickness of woodland between             0            //
//                     observer and road (feet)                  //
// Cover              Percent view coverage between             0            //
//                     observer and road (0-100)                 //
// Rows              Building rows between observer             0            //
//                     and roadway (0-4).                        //
////////////////////////////////////

```

**Lower Sacto - between Taylor and Kettleman - Future**

```

////////////////////////////////////
// Speed          Vehicle Speed (mph, 0 to 100)      45          //
// Grad           Road Gradient (% , 0 to 6)         //
// Sep1          Centerline Separation (feet)        30          //
//      with      >>      (Usually 23' for 2-lane, 38' //
//      median    >>      for 4-lane, 50' for 6-lane) //
// Dist1         Distance from observer to the       100         //
//              nearest lane centerline (>50')      //
//              (used in calculations)              //
// Dist2         Dist. from ROW to NLC                15          //
//              *** CNEL @ 100' (SOFT)             66.04       //
// VOL           TOTAL Vehicle Volume (two-way)      30,300      //
// ALPHA        Hard site=0, Soft site=0.5          0           //
  
```

DISTANCE FROM		RESULTS	DISTANCE FROM	
Cntrline	ROW		Centerline	ROW
912	883	<-- hard 60 CNEL soft --->	288	259
288	259	65 CNEL	134	105
91	62	70 CNEL	62	33
//				//
// View		View Angle of Observer (180)	180	//
//		SHIELDING (adjust output by hand)		//
//		~~~~~		//
// Woods		Thickness of woodland between	0	//
//		observer and road (feet)		//
// Cover		Percent view coverage between	0	//
//		observer and road (0-100)		//
// Rows		Building rows between observer	0	//
//		and roadway (0-4).		//
////////////////////////////////////				

**Lower Sacto - South of Kettleman - Future**

```

////////////////////////////////////
// Speed          Vehicle Speed (mph, 0 to 100)      45      //
// Grad           Road Gradient (% , 0 to 6)         //
// Sep1          Centerline Separation (feet)        12      //
//      with      >>      (Usually 23' for 2-lane, 38' //
//      median    >>      for 4-lane, 50' for 6-lane) //
// Dist1         Distance from observer to the       100     //
//              nearest lane centerline (>50')      //
//              (used in calculations)              //
// Dist2         Dist. from ROW to NLC                6      //
//              *** CNEL @ 100' (SOFT)             67.13 //
// VOL           TOTAL Vehicle Volume (two-way)     34,800 //
// ALPHA        Hard site=0, Soft site=0.5          0      //

```

DISTANCE FROM		R E S U L T S		DISTANCE FROM	
Cntrline	ROW			Centerline	ROW
*****	1034	<-- hard	60 CNEL soft --->	316	304
331	319		65 CNEL	147	135
105	93		70 CNEL	68	56
//					//
// View		View Angle of Observer (180)		180	//
//		SHIELDING (adjust output by hand)			//
//		~~~~~			//
// Woods		Thickness of woodland between		0	//
//		observer and road (feet)			//
// Cover		Percent view coverage between		0	//
//		observer and road (0-100)			//
// Rows		Building rows between observer		0	//
//		and roadway (0-4).			//
////////////////////////////////////					////////////////////////////////////

**Kettleman Lane - West of Lower Sacto - Future + Project**

```

////////////////////////////////////
// Speed          Vehicle Speed (mph, 0 to 100)      45          //
// Grad           Road Gradient (% , 0 to 6)         //
// Sep1           Centerline Separation (feet)       12          //
//               with      >>      (Usually 23' for 2-lane, 38' //
//               median    >>      for 4-lane, 50' for 6-lane) //
// Dist1          Distance from observer to the      100         //
//               nearest lane centerline (>50')      //
//               (used in calculations)              //
// Dist2          Dist. from ROW to NLC               6           //
//               *** CNEL @ 100' (SOFT)             65.26       //
// VOL            TOTAL Vehicle Volume (two-way)     22,640      //
// ALPHA         Hard site=0, Soft site=0.5         0           //
  
```

DISTANCE FROM		R E S U L T S		DISTANCE FROM	
Cntrline	ROW			Centerline	ROW
680	668	<-- hard	60 CNEL soft --->	237	225
215	203		65 CNEL	110	98
68	56		70 CNEL	51	39

```

//
// View          View Angle of Observer (180)        180         //
//               SHIELDING (adjust output by hand) //
//               ~~~~~~                               //
// Woods         Thickness of woodland between      0           //
//               observer and road (feet)           //
// Cover         Percent view coverage between      0           //
//               observer and road (0-100)          //
// Rows         Building rows between observer     0           //
//               and roadway (0-4).                 //
////////////////////////////////////
  
```

**Kettleman Lane - East of Lower Sacto - Future + Project**

```

////////// //////////////// //////////////// //////////////// //////////////// //////////////// //////////////// ////////////////
// Speed          Vehicle Speed (mph, 0 to 100)          45          //
// Grad           Road Gradient (% , 0 to 6)             //
// Sep1           Centerline Separation (feet)           30          //
//               with      >>      (Usually 23' for 2-lane, 38' //
//               median    >>      for 4-lane, 50' for 6-lane) //
// Dist1          Distance from observer to the          100         //
//               nearest lane centerline (>50') //
//               (used in calculations) //
// Dist2          Dist. from ROW to NLC                   15          //
//               *** CNEL @ 100' (SOFT)                 66.32       //
// VOL            TOTAL Vehicle Volume (two-way)         32,310      //
// ALPHA         Hard site=0, Soft site=0.5              0           //
  
```

	DISTANCE FROM		R E S U L T S		DISTANCE FROM	
	Cntrline	ROW			Centerline	ROW
	971	942	<-- hard	60 CNEL soft --->	301	272
	307	278		65 CNEL	140	111
	97	68		70 CNEL	65	36
//						//
// View			View Angle of Observer (180)		180	//
//			SHIELDING (adjust output by hand)			//
//			~~~~~			//
// Woods			Thickness of woodland between		0	//
//			observer and road (feet)			//
// Cover			Percent view coverage between		0	//
//			observer and road (0-100)			//
// Rows			Building rows between observer		0	//
//			and roadway (0-4).			//
//////////	//////////	//////////	//////////	//////////	//////////	//////////

**Lower Sacto - between Taylor and Kettleman - Future + Project**

```

////////////////////////////////////
// Speed          Vehicle Speed (mph, 0 to 100)      45          //
// Grad           Road Gradient (% , 0 to 6)         //
// Sep1          Centerline Separation (feet)        30          //
//      with      >>      (Usually 23' for 2-lane, 38' //
//      median    >>      for 4-lane, 50' for 6-lane) //
// Dist1         Distance from observer to the       100         //
//              nearest lane centerline (>50')      //
//              (used in calculations)              //
// Dist2         Dist. from ROW to NLC               15          //
//              *** CNEL @ 100' (SOFT)             66.17       //
// VOL           TOTAL Vehicle Volume (two-way)      31,180      //
// ALPHA        Hard site=0, Soft site=0.5          0           //

```

DISTANCE FROM		RESULTS	DISTANCE FROM	
Cntrline	ROW		Centerline	ROW
938	909	<-- hard 60 CNEL soft --->	294	265
296	267	65 CNEL	136	107
94	65	70 CNEL	63	34

```

//
// View          View Angle of Observer (180)        180         //
//              SHIELDING (adjust output by hand)    //
//              ~~~~~~                               //
// Woods         Thickness of woodland between      0           //
//              observer and road (feet)            //
// Cover         Percent view coverage between      0           //
//              observer and road (0-100)           //
// Rows         Building rows between observer     0           //
//              and roadway (0-4).                  //
////////////////////////////////////

```

**Lower Sacto - South of Kettleman - Future + Project**

```

////////////////////////////////////
// Speed                Vehicle Speed (mph, 0 to 100)           45           //
// Grad                 Road Gradient (% , 0 to 6)              //
// Sep1                 Centerline Separation (feet)            12           //
//      with            >>      (Usually 23' for 2-lane, 38'     //
//      median          >>      for 4-lane, 50' for 6-lane)      //
// Dist1                Distance from observer to the          100          //
//                      nearest lane centerline (>50')         //
//                      (used in calculations)                 //
// Dist2                Dist. from ROW to NLC                   6            //
//                      *** CNEL @ 100' (SOFT)                 67.25       //
// VOL                  TOTAL Vehicle Volume (two-way)          35,810      //
// ALPHA                Hard site=0, Soft site=0.5              0            //

```

DISTANCE FROM		R E S U L T S		DISTANCE FROM	
Cntrline	ROW			Centerline	ROW
*****	1064	<-- hard	60 CNEL soft --->	322	310
340	328		65 CNEL	149	138
108	96		70 CNEL	69	58
//					//
// View		View Angle of Observer (180)		180	//
//		SHIELDING (adjust output by hand)			//
//		~~~~~			//
// Woods		Thickness of woodland between		0	//
//		observer and road (feet)			//
// Cover		Percent view coverage between		0	//
//		observer and road (0-100)			//
// Rows		Building rows between observer		0	//
//		and roadway (0-4).			//
////////////////////////////////////					////////////////////////////////////