Dudek, "Newhall Ranch – Noise Levels Monitored Along SR-126"
(August 2007; 2007B)

DUDEK

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August 31, 2007 3738-135

Mr. Matt Carpenter
Director Environmental Resources
Newhall Land
23823 Valencia Boulevard
Valencia, California 91355

SUBJECT: Newhall Ranch - Noise Levels Monitored along SR 126.

Dear Mr. Carpenter:

Dudek monitored noise levels during August 2007 within the Newhall Ranch property in areas along State Route 126. Noise levels were monitored across 24-hour periods using various equipment, including Larson-Davis Models 700 and 820, and Brüel & Kjær Type 2236 sound level meters. The monitor locations are depicted as Sites 1 though 6 in *Figure 1*. The noise monitoring locations were selected to obtain noise level data for State Route 126 traffic patterns, to characterize noise attenuation rates with distances across various terrain and vegetative communities within the property, and to confirm existing noise levels within certain of the biologically sensitive habitats occurring on the property.

The microphones were positioned on a tripod at approximately five feet above the ground at each monitor location, consistent with environmental noise measurement protocols. The microphones were also protected with windscreens during the measurements. The sound level meters were calibrated before and after the readings.

The primary noise source during this noise survey was vehicular traffic on State Route 126. The weather conditions during the noise survey were clear to partly cloudy skies, daytime temperatures between 65 and 100 °F, and nighttime temperatures between 55 and 65 °F. Winds were variable, averaging between 2 and 7 mph at the monitor locations.

A summary of the noise level measurements results is presented in *Table 1,* on the following page. The data in *Table 1* show the monitored hourly Leq dBA and the calculated 24-hour CNEL noise levels for monitor locations 1 to 6. Attached *Figure 1* provides a graphic illustration of the noise monitoring locations presented in *Table 1*, and their relationship to State Route 126.

Newhall Ranch
Noise Levels Monitored along State Route 126

TABLE 1 MONITORED NOISE LEVELS (Leq $_{hr}$ - dBA)						
Monitor Location[1]	**1**	**2**	**3**	**4**	**5**	**6**
Monitor Date	August 16/17	August 16/17	August 16/17/21	August 13/14	August 20/21	August 20/21
Distance to SR 126	120 ft	110 ft	540 ft	430 ft	630 ft	1650 ft
Start Time	Leq $_{hr}$ - dBA	Leq $_{hr}$ - dBA	Leq $_{hr}$ - dBA	Leq $_{hr}$ - dBA	Leq $_{hr}$ - dBA	Leq $_{hr}$ - dBA
12:00 PM	62	71	60	54	52	49
1:00 PM	63	71	60	54	53	49
2:00 PM	63	73	62	54	55	51
3:00 PM	63	71	60	55	56	52
4:00 PM	63	71	60	56	56	51
5:00 PM	62	71	60	55	55	50
6:00 PM	62	71	60	56	55	50
7:00 PM	61	70	59	56	56	50
8:00 PM	61	68	57	56	58	52
9:00 PM	61	69	58	55	57	51
10:00 PM	59	68	57	54	55	50
11:00 PM	58	66	55	53	55	49
12:00 AM	57	65	54	53	54	47
1:00 AM	57	64	53	51	53	46
2:00 AM	58	65	54	52	54	46
3:00 AM	59	67	56	53	53	46
4:00 AM	62	68	57	56	57	50
5:00 AM	65	71	60	58	60	52
6:00 AM	66	72	61	58	62	55
7:00 AM	65	72	61	55	60	55
8:00 AM	64	70	59	51	55	49
9:00 AM	64	70	59	52	52	54
10:00 AM	62	70	59	54	51	58
11:00 AM	62	70	59	53	52	57
Average	***61***	***69***	***58***	***54***	***55***	***51***
Highest	***66***	***73***	***62***	***58***	***62***	***58***
CNEL	***67***	***75***	***64***	***61***	***62***	***56***

Note: Refer to Figure 1 for Noise Monitor Locations

A narrative description of the monitor dates and locations is provided below (for easy comparison of their distance from State Route 126).

Monitor Location 1: August 16/17, 2007, within the Santa Clara River channel, approximately 120 feet south from SR 126 centerline.

Monitor Location 2: August 16/17, 2007, on the highway side of a disused wooden cattle-loading structure, approximately 110 feet south from SR 126 centerline.

Monitor Location 3: August 16/17 and 21, 2007, on approximately the same orthogonal line as the disused wooden cattle loading structure (see above), approximately 540 feet south from SR 126 centerline.

Monitor Location 4: August 13/14, 2007, in a stand of trees, approximately 430 feet south from SR 126 centerline.

Monitor Location 5: August 20/21, 2007, between SR 126 and Santa Clara River, approximately 630 feet south from SR 126 centerline.

Monitor Location 6: August 20/21, 2007, on approximately the same orthogonal line as Monitor Location 5, but south of Santa Clara River, approximately 1,650 feet south from SR 126 centerline.

The data presented in Table 1 can be used by the biologist to evaluate the potential impacts upon the biological habitat at the monitored locations. The monitored and calculated noise levels can also be used to calibrate and estimate the location of SR 126 noise contours, based on existing and future anticipated average daily traffic volumes.

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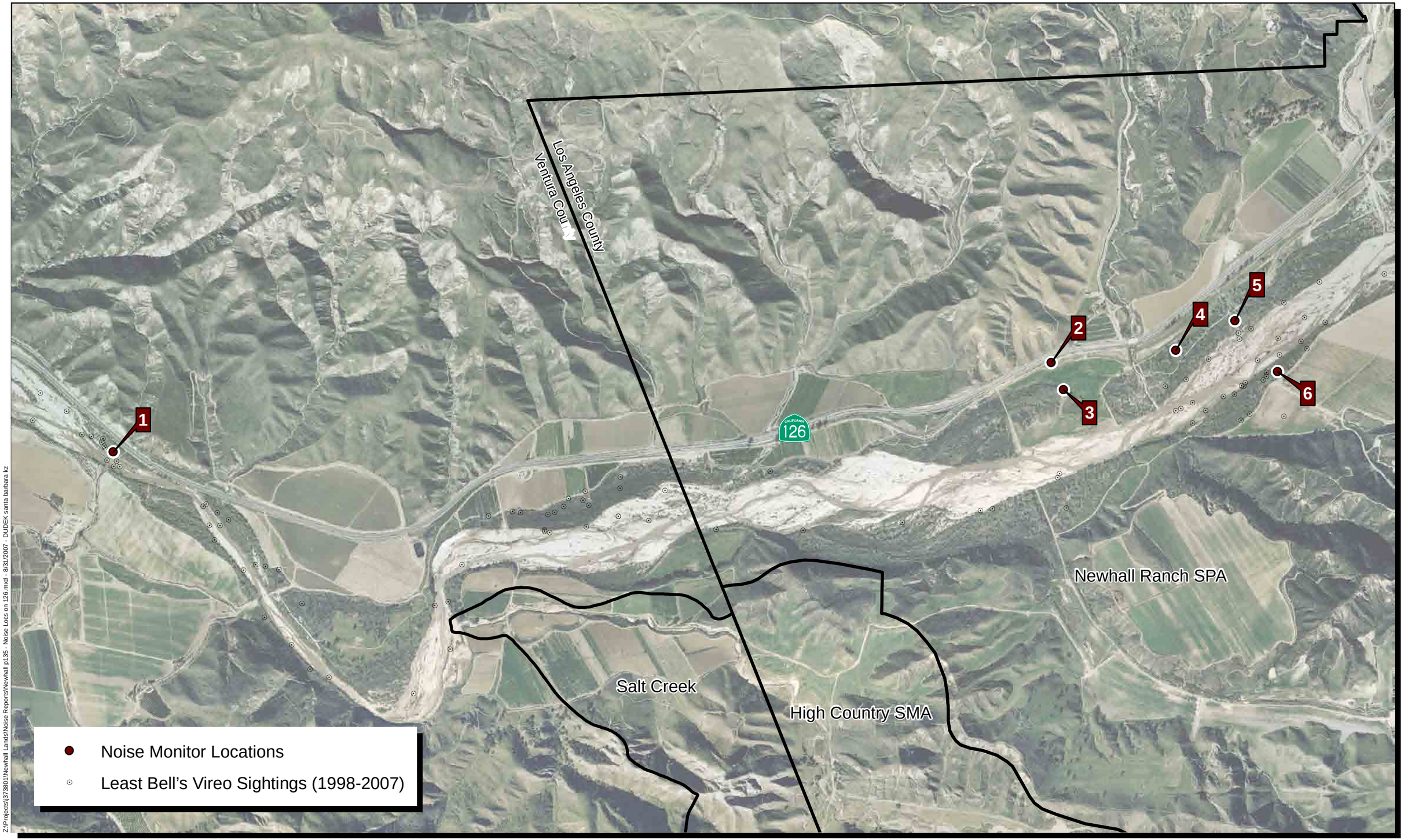
Should you have any questions regarding the above information, please do not hesitate to call me at (805) 963-0651, x-3523.

Sincerely,
DUDEK

Cornelis H. Overweg, P.E., INCE
Senior Acoustician

Enclosure: *Figure 1*



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DUDEK

0 390 780 1,560 2,340 3,120 Feet

Newhall Lands

Noise Levels Along SR 126

FIGURE 1