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# HOLLISTER HILLS SVRA

# AMBIENT NOISE MONITORING[1]

**2008/2009**

**CHAPTER 6**

**Month of October 2008**

**Session 11 and 12**

**11 November 2008**

[1] *Performed by: Wilson, Ihrig and Associates, Inc.*

The current noise monitoring is being conducted to document ambient noise levels and specifically any noise associated with the newly opened trails on the Renz Ranch Property and the Hudner Ranch Property when that is open to the public. The noise monitoring follows the same methodology used in previous years of noise monitoring for Hollister Hills SVRA subsequent to the EIR for the new property acquisitions.

The locations monitored in October 2008, which are covered by this chapter and the dates of monitoring are as follows:

- Session 11 - Locations 6 and 8 - 10/11/08
- Session 12 - Locations 4 and 7 - 10/26/08

The noise metrics logged on an hourly basis were the $L_{50}$, $L_{25}$, $L_8$, $L_2$, $L_{max}$ and $L_{eq}$ at each location monitored. The hourly noise data have been tabulated for each session. Where an hourly noise metric equals or exceeds the Park's noise criteria, the source of the noise has been identified.

The noise data for Session 11 and 12 are contained in Tables 1 - 4. Where the monitored ambient noise levels exceed the defined noise standards, the source of the noise has been identified. Single event noises that exceed the $L_{max}$ standard of 60 dBA are indicated in Table 5 which also includes the source of noise and the time that the event occurred.

The meteorological data are contained in Tables 6 - 9 for the sessions of noise monitored this month. Wind had a slight effect on the $L_{50}$ noise levels at Location 6 during session 11 for three of the four hours of the measurement. Meteorological conditions did not affect noise levels measured at Location 8 during Session 11 or either location during session 12.

As can be seen in Table 5, the primary source of single event noise during Session 11 which exceeded 60 dBA were an ambulance and small plane at Location 6, and dirt bikes at Location 8 Santa Clara Riders Unlimited ,scheduled for an event at the GP track on October 12, may have been practicing at the track on Saturday. During Session 12, a small plane at Location 4 exceeded 60 dBA.

Of the locations monitored to date, Location 8 clearly exhibits noise levels attributable to Park OHV activity, which registered on the strip chart (i.e., they were discernible on the strip chart from the existing ambient). Location 8 is close to the Park's GP track. When a race or practice is in progress, the noise levels monitored at that location are dominated by the dirt bike activity as was observed during Session 1 (24 May, 2008).

Of the noise levels monitored in August, none of the exceedences were associated with OHV activity on the Renz Ranch Property trails and were clearly attributable to other sources.

**Table 1- Ambient Noise Monitoring Data**

**Session No.** 11

**Location No.** 6

**Date** 10/11/08

**Start Time** 1015

**Comments**

| Hour | L50 | L25 | L8 | L2 | Leq | Lmax |
|---|---|---|---|---|---|---|
| 1 | 41* | 44 | 48 | 54 | 48 | 71** |
| 2 | 39 | 41 | 45 | 49 | 41 | 55 |
| 3 | 41* | 44 | 47 | 50 | 43 | 58 |
| 4 | 41* | 44 | 47 | 53 | 44 | 62*** |

* Noise levels caused by wind
** Noise level caused by ambulance on La Cienega Road
*** Noise level caused by small plane overhead

**Table 2- Ambient Noise Monitoring Data**

**Session No.** 11

**Location No.** 8

**Date** 10/11/08

**Start Time** 1021

**Comments**

| Hour | L50 | L25 | L8 | L2 | Leq | Lmax |
|---|---|---|---|---|---|---|
| 1 | 43* | 46* | 50 | 54 | 47 | 56 |
| 2 | 40 | 43 | 47 | 51 | 44 | 64* |
| 3 | 41* | 44 | 48 | 52 | 45 | 64* |
| 4 | 43* | 45 | 48 | 52 | 45 | 63* |

* Noise levels due to dirt bikes

**Table 3 - Ambient Noise Monitoring Data**

**Session No.** 12

**Location No.** 4

**Date** 10/26/08

**Start Time** 1045

**Comments**

| Hour | L50 | L25 | L8 | L2 | Leq | Lmax |
|---|---|---|---|---|---|---|
| 1 | 32 | 34 | 38 | 47 | 37 | 57 |
| 2 | 30 | 34 | 42 | 47 | 39 | 61* |
| 3 | 29 | 31 | 34 | 43 | 33 | 50 |
| 4 | 31 | 34 | 41 | 47 | 37 | 54 |

* Noise level due to airplane flyover

**Table 4- Ambient Noise Monitoring Data**

**Session No.** 12

**Location No.** 7

**Date** 10/26/08

**Start Time** 1121

**Comments**

| Hour | L50 | L25 | L8 | L2 | Leq | Lmax |
|---|---|---|---|---|---|---|
| 1 | 32 | 37 | 42 | 46 | 38 | 54 |
| 2 | 32 | 35 | 41 | 52 | 41 | 60 |
| 3 | 34 | 36 | 42 | 47 | 38 | 57 |
| 4 | 34 | 37 | 43 | 50 | 39 | 54 |

**Table 5 Single Event Noise Levels Exceeding 60 dBA**

| Session | Date | Location | Time | $L_{max}$ (dBA) | Source |
|---|---|---|---|---|---|
| 1 | 5/24/08 | 7 | 1300 | 62 | High flying jet |
| | | | 1326 | 62 | Small Plane |
| | | 8 | 1st hour | 67* | Dirt bikes with 8 events over 60dBA |
| | | | 2nd hour | 67* | Dirt bikes with 7 events over 60dBA |
| | | | 3rd hour | 66* | Dirt bikes with many events (20 - 30/hr) over 60 dBA |
| | | | 4th hour | 68* | Dirt bikes with many events (20 - 30/hr) over 60 dBA |
| 3 | 6/21/08 | 3 | 1045 | 62 | Small airplane |
| | | | 1338 | 65 | Wind |
| | | 5 | 1256 | 68 | Wind |
| 4 | 7/5/08 | 4 | 1201 | 64 | Small airplane |
| | | | 1249 | 61 | Small airplane |
| 5 | 7/19/08 | 2 | 12:42 | 64 | Small airplane |
| | | | 13:14 | 61 | Small airplane |
| 7 | 8/16/08 | 3 | 1440 | 73 | Helicopter |
| | | 4 | 1404 | 61 | Small airplane |
| | | | 1440 | 62 | Helicopter |
| 9 | 9/13/08 | 3 | 1241 | 73 | Small plane overhead |
| 10 | 9/28/08 | 2 | 1142 | 65 | Helicopter |
| 11 | 10/11/08 | 6 | 1024 | 71 | Ambulance |
| | | | 1107 | 67 | Helicopter |
| | | | 1340 | 62 | Small Plane |

| Session | Date | Location | Time | $L_{max}$ (dBA) | Source |
|---|---|---|---|---|---|
| 11 | 10/11/08 | 8 | 1216 | 64 | Dirt Bike at GP track |
| | | | 1235 | 64 | Dirt Bike at GP track |
| | | | 1347 | 63 | Dirt Bike at GP track |
| 12 | 10/26/08 | 4 | 1153 | 61 | Plane |

Note 1: Session 1 at Location 8 produced many single events from dirt bikes exceeding 60 dBA during races at the GP Track.

Note 2: Where a race results in many single event noise levels over 60 dBA, the rate at which they occurred is given instead and just the highest $L_{max}$ (*) for the session is indicated.

**Table 6 – Meteorological Data**

Session: 11

Day: Saturday

Date: 10/11/08

Monitoring Location No. 6

| Time | Air Temp. (°F) | Humidity (%) | Cloud Cover | Precipitation | Wind Direction | Wind Speed* (mph) |
|---|---|---|---|---|---|---|
| 1018 | 56 | 29 | Clear | None | SW | 7 / 9 |
| 1030 | 54 | 30 | Clear | None | SW | 8 / 10 |
| 1100 | 57 | 28 | Clear | None | SW | 6 / 8 |
| 1130 | 60 | 23 | Clear | None | SW | 5 / 6 |
| 1200 | 64 | 20 | Clear | None | SW | 8 / 9 |
| 1230 | 63 | 20 | Clear | None | SW | 4 / 7 |
| 1300 | 63 | 16 | Clear | None | SW | 3 / 7 |
| 1330 | 62 | 16 | Clear | None | SW | 10 / 17 |
| 1400 | 66 | 17 | Clear | None | SW | 8 / 11 |
| 1418 | 65 | 17 | Clear | None | SW | 9 / 12 |

* Wind speed - (average/maximum)

**Table 7 – Meteorological Data**

Session: 11

Day: Saturday

Date: 10/11/08

Monitoring Location No. 8

| Time | Air Temp. (°F) | Humidity (%) | Cloud Cover | Precipitation | Wind Direction | Wind Speed* (mph) |
|---|---|---|---|---|---|---|
| 1021 | 57 | 25 | Clear | None | SE | 2 / 5 |
| 1051 | 58 | 28 | Clear | None | SE | 2 / 4 |
| 1121 | 60 | 27 | Clear | None | SE | 1 / 3 |
| 1151 | 60 | 25 | Clear | None | SE | 1 / 3 |
| 1221 | 61 | 24 | Clear | None | SE | 5 / 10 |
| 1251 | 63 | 21 | Clear | None | SE | 1 / 3 |
| 1321 | 63 | 23 | Clear | None | SE | 2 / 3 |
| 1351 | 64 | 19 | Clear | None | SE | 3 / 5 |
| 1421 | 65 | 19 | Clear | None | SE | 3 / 4 |

* Wind speed - (average/maximum)

**Table 8 – Meteorological Data**

Session: 12

Day: Sunday

Date: 10/26/08

Monitoring Location No. 4

| Time | Air Temp. (°F) | Humidity (%) | Cloud Cover | Precipitation | Wind Direction | Wind Speed* (mph) |
|---|---|---|---|---|---|---|
| 1049 | 76 | 38 | Clear | None | E | 1 / 1 |
| 1117 | 73 | 35 | Clear | None | SW | 1 / 1 |
| 1141 | 76 | 36 | Clear | None | N | 1 / 2 |
| 1207 | 78 | 34 | Clear | None | N | 2 / 3 |
| 1230 | 81 | 29 | Clear | None | NW | 2 / 3 |
| 1305 | 83 | 25 | Clear | None | NW | 3 / 4 |
| 1330 | 83 | 25 | Clear | None | W | 4 / 6 |
| 1403 | 83 | 35 | Clear | None | NW | 3 / 7 |
| 1435 | 82 | 37 | Clear | None | W | 4 / 6 |

* Wind speed - (average/maximum)

**Table 9 – Meteorological Data**

Session: 12

Day: Sunday

Date: 10/26/08

Monitoring Location No. 7

| Time | Air Temp. (°F) | Humidity (%) | Cloud Cover | Precipitation | Wind Direction | Wind Speed* (mph) |
|---|---|---|---|---|---|---|
| 1100 | 76 | 26 | Clear | None | W | 1 / 3 |
| 1200 | 76 | 37 | Clear | None | W | 3 / 4 |
| 1230 | 77 | 41 | Clear | None | W | 2 / 3 |
| 1300 | 80 | 25 | Clear | None | W | 3 / 4 |
| 1330 | 83 | 24 | Clear | None | W | 1 / 3 |
| 1400 | 84 | 22 | Clear | None | NW | 3 / 4 |
| 1430 | 80 | 33 | Clear | None | NW | 5 / 9 |
| 1500 | 82 | 33 | Clear | None | NW | 2 / 4 |

* Wind speed - (average/maximum)