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HOLLISTER HILLS SVRA
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AMBIENT NOISE MONITORING¹

2008/2009

CHAPTER 11

Month of April 2009

Session 21, 22 and 23

11 May 2009

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 April 2009, which are covered by this chapter and the dates of monitoring are as follows:

- Session 21 - Locations 2 and 4 - 4/11/09
- Session 22 - Locations 3 and 5 - 4/18/09
- Session 23 - Locations 1 and 7 - 4/25/09

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 21, 22 and 23 are contained in Tables 1 - 6. 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 7 which also includes the source of noise and the time that the event occurred.

The meteorological data are contained in Tables 8 - 13 for the sessions of noise monitored this month. Meteorological conditions did not affect noise levels measured at any of the locations during Session 21 or Session 22. During Session 23, noise generated by wind at average speeds of up to 9 mph contributed to exceedence of the L_{50} and L_{25} criteria at Locations 1 and 7 during the second and third hours of measurement at Location 1 and during the last two hours of the measurement at Location 7.

As can be seen in Table 7, during Session 21 there were single event exceedences of 60 dBA due to small plane flyovers at Locations 2 and 4, and an additional exceedence at Location 4 due to a bird near the microphone. During Session 22 there were exceedences due to small plane and helicopter flyovers at both Location 3 and 5. During Session 23 there was an exceedence due to a helicopter flyover at Location 1.

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, 15, and 20.

Of the noise levels monitored in January, 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. 21

Location No. 2

Date 4/11/09

Start Time 1021

Comments

Hour	L50	L25	L8	L2	Leq	Lmax
1	33	36	40	45	37	55
2	36	39	43	50	41	60
3	35	38	43	53	44	66*
4	31	34	40	48	38	57

* Level due to small plane flyover

Table 2- Ambient Noise Monitoring Data

Session No. 21
Location No. 4
Date 4/11/09
Start Time 1007
Comments

Hour	L50	L25	L8	L2	Leq	Lmax
1	40	45	50	54	45	64*
2	40	45	50	54	45	62**
3	41*	45	51*	58*	50	76**
4	39	43	48	53	44	60

* Levels due to birds near microphone

** Level due to small plane flyovers

Table 3- Ambient Noise Monitoring Data

Session No. 22

Location No. 3

Date 4/18/09

Start Time 1045

Comments

Hour	L50	L25	L8	L2	Leq	Lmax
1	40	42	45	50	46	69*
2	40	44	47	50	43	57
3	39	43	46	48	42	59
4	40	43	46	51	43	61*

* Levels due to small plane flyover

Table 4- Ambient Noise Monitoring Data

Session No. 22
Location No. 5
Date 4/18/09
Start Time 1045
Comments

Hour	L50	L25	L8	L2	Leq	Lmax
1	44*	47*	50	56*	47	64**
2	47*	49*	50	52	48	62***
3	45*	46*	47	49	45	55
4	44*	46*	47	50	46	64**

* Levels due to nearby crickets and birds
** Level due to small plane flyover
***Level due to helicopter

Table 5- Ambient Noise Monitoring Data

Session No. 23
Location No. 1
Date 4/25/09
Start Time 1030

Comments

Hour	L50	L25	L8	L2	Leq	Lmax
1	40	41	43	44	40	54
2	41*	44	46	47	42	51
3	44*	46*	47	51	47	67**
4	36	40	45	47	40	53

* Level due to crickets nearby

** Levels due to helicopter

Table 6- Ambient Noise Monitoring Data

Session No. 23
Location No. 7
Date 4/25/09
Start Time 1015

Comments

Hour	L50	L25	L8	L2	Leq	Lmax
1	38	41	44	47	36	59
2	37	40	44	49	44	55
3	43*	49*	50	51	50	56
4	41*	43	47	50	43	58

* Level due to wind

Table 7 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	1 st hour	67*	Dirt bikes with 8 events over 60dBA
			2 nd hour	67*	Dirt bikes with 7 events over 60dBA
			3 rd hour	66*	Dirt bikes with many events (20 - 30/hr) over 60 dBA
			4 th 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
13	11/8/08	5	1202	62	Plane
			1230	66	Helicopter
14	11/29/08	6	957	63	Plane
			1052	62	Helicopter
			1200	61	Plane
15	12/7/08	7	1236	69	Plane
		8	1 st hour	73*	Dirt bikes with many events (20 - 30/hr) over 60 dBA
			2 nd hour	72*	Dirt bikes with many events (20 - 30/hr) over 60 dBA
			3 rd hour	65*	Dirt bikes with 14 events over 60 dBA
			4 th hour	73*	Dirt bikes with many events (20 - 30/hr) over 60 dBA
16	12/27/08	2	1102	68	Local resident on 4-wheel ATV
			1212	62	Plane
		5	1211	64	Plane
18	1/31/09	3	1335	70	Helicopter
		6	1325	65	Plane
19	3/14/09	4	1215	83	Helicopter
			1216	66	Helicopter
			1230	63	Helicopter

Session	Date	Location	Time	L _{max} (dBA)	Source
19	3/14/09	4	1303	70	Small Plane
			1359	71	Small Plane
		5	1216	61	Helicopter
			1303	76	Small Plane
20	3/28/09	2	1238	62	Small Plane
			1353	64	Small Plane
		8	1 st hour	69*	Dirt bikes with many events (20 - 30/hr) over 60 dBA
			2 nd hour	65*	Dirt bikes with many events (20 - 30/hr) over 60 dBA
			1256	61	Dirt Bike on GP track
			1350	67	Small Plane
21	4/11/09	2	1252	66	Small Plane
		4	1041	64	Bird near microphone
			1231	62	Small plane
			1252	76	Small plane
22	4/18/09	3	1110	69	Small plane
			1417	61	Small plane
		5	1110	64	Small plane
			1230	62	Helicopter
			1417	64	Small plane
23	4/25/09	1	1249	67	Helicopter

Note 1: Session 1, 15, and 20 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 8 – Meteorological Data

Session: 21

Day: Saturday

Date: 4/11/09

Monitoring Location No. 2

Time	Air Temp. (°F)	Humidity (%)	Cloud Cover	Precipitation	Wind Direction	Wind Speed* (mph)
1022	55	58	Partial	None	NW	1 / 5
1052	55	59	Partial	None	NW	1 / 2
1122	55	57	Partial	None	W	5 / 9
1152	56	57	Partial	None	W	2 / 7
1222	57	51	Partial	None	SW	3 / 5
1252	58	51	Partial	None	SW	2 / 5
1322	60	55	Partial	None	SW	1 / 4
1352	61	52	Partial	None	SW	2 / 3
1422	60	48	Partial	None	W	3 / 4

* Wind speed - (average/maximum)

Table 9 – Meteorological Data

Session: 21

Day: Saturday

Date: 4/11/09

Monitoring Location No. 4

Time	Air Temp. (°F)	Humidity (%)	Cloud Cover	Precipitation	Wind Direction	Wind Speed* (mph)
1030	52	59	Cloudy	None	NW	4 / 7
1100	57	56	Cloudy	None	NW	3 / 5
1130	60	54	Cloudy	None	N	4 / 6
1200	59	53	Cloudy	None	NW	5 / 9
1230	61	55	Cloudy	None	W	4 / 8
1300	59	54	Cloudy	None	NW	5 / 8
1330	60	49	Cloudy	None	NW	4 / 10
1400	62	47	Clear	None	NW	4 / 9
1430	62	45	Clear	None	NW	3 / 6

* Wind speed - (average/maximum)

Table 10 – Meteorological Data

Session: 22

Day: Saturday

Date: 4/18/09

Monitoring Location No. 3

Time	Air Temp. (°F)	Humidity (%)	Cloud Cover	Precipitation	Wind Direction	Wind Speed* (mph)
1045	75	54	Clear	None	NW	1 / 2
1115	75	50	Clear	None	NW	2 / 3
1145	77	45	Clear	None	NW	1 / 3
1215	76	46	Clear	None	NW	2 / 3
1245	80	45	Clear	None	NW	3 / 5
1315	79	42	Clear	None	NW	1 / 2
1345	81	37	Clear	None	NW	2 / 3
1415	82	36	Clear	None	NW	2 / 4
1445	81	35	Clear	None	NW	3 / 5

* Wind speed - (average/maximum)

Table 11 – Meteorological Data

Session: 22

Day: Saturday

Date:4/18/09

Monitoring Location No. 5

Time	Air Temp. (°F)	Humidity (%)	Cloud Cover	Precipitation	Wind Direction	Wind Speed* (mph)
1050	75	52	Clear	None	W	1 / 2
1120	76	50	Clear	None	N	1 / 3
1145	76	48	Clear	None	N	2 / 3
1215	79	48	Clear	None	NE	1 / 3
1245	86	46	Clear	None	NE	1 / 2
1315	81	41	Clear	None	NE	1 / 2
1349	83	38	Clear	None	W	2 / 3
1417	84	37	Clear	None	SW	2 / 3
1445	82	37	Clear	None	W	3 / 5

* Wind speed - (average/maximum)

Table 12 – Meteorological Data

Session: 23

Day: Saturday

Date: 4/23/09 285

Monitoring Location No. 1

Time	Air Temp. (°F)	Humidity (%)	Cloud Cover	Precipitation	Wind Direction	Wind Speed* (mph)
1030	60	50	Clear	None	NW	2 / 4
1100	61	48	Clear	None	NW	1 / 3
1130	63	46	Clear	None	NW	2 / 4
1200	64	43	Clear	None	NW	2 / 4
1230	66	42	Clear	None	NW	2 / 4
1300	64	42	Clear	None	NW	2 / 4
1330	64	43	Clear	None	NW	5 / 9
1400	64	37	Clear	None	NW	6 / 13
1430	63	41	Clear	None	NW	5 / 13

* Wind speed - (average/maximum)

Table 13 – Meteorological Data

Session: 23

Day: Saturday

Date: 4/25/09

Monitoring Location No. 7

Time	Air Temp. (°F)	Humidity (%)	Cloud Cover	Precipitation	Wind Direction	Wind Speed* (mph)
1015	58	30	Cloudy	None	SW	1 / 4
1045	54	60	Clear	None	SW	3 / 6
1115	57	59	Clear	None	SW	2 / 4
1145	62	59	Clear	None	SW	2 / 3
1215	62	57	Clear	None	W	2 / 6
1245	66	37	Clear	None	W	2 / 4
1315	66	31	Clear	None	WSW	4 / 8
1345	67	41	Clear	None	WSW	2 / 6
1415	64	40	Clear	None	W	5 / 9

* Wind speed - (average/maximum)

