



MEMORANDUM

To: Robert Miller
Turner Construction

From: Zack Dennis
ATS Consulting

Date: December 13, 2007

Subject: Monthly Noise Report for Raintree Noise Monitors, June 2007

This memorandum presents the results of the noise monitoring near the Raintree residential complex near the West Los Angeles College (WLAC) campus. There are four monitors positioned near the property lines of the Raintree complex to monitor truck noise from the haul road that runs from the northwest corner of campus to Jefferson Boulevard. Each monitor is an independent station consisting of a microphone, sound level meter, cellphone modem, and assorted ancillary equipment. The locations of the monitors are shown in Figure 1.

Currently Monitors 3 and 4 are not active due to problems providing power. We are working with Raintree to provide AC power to the units and will begin reporting data as soon as this occurs.

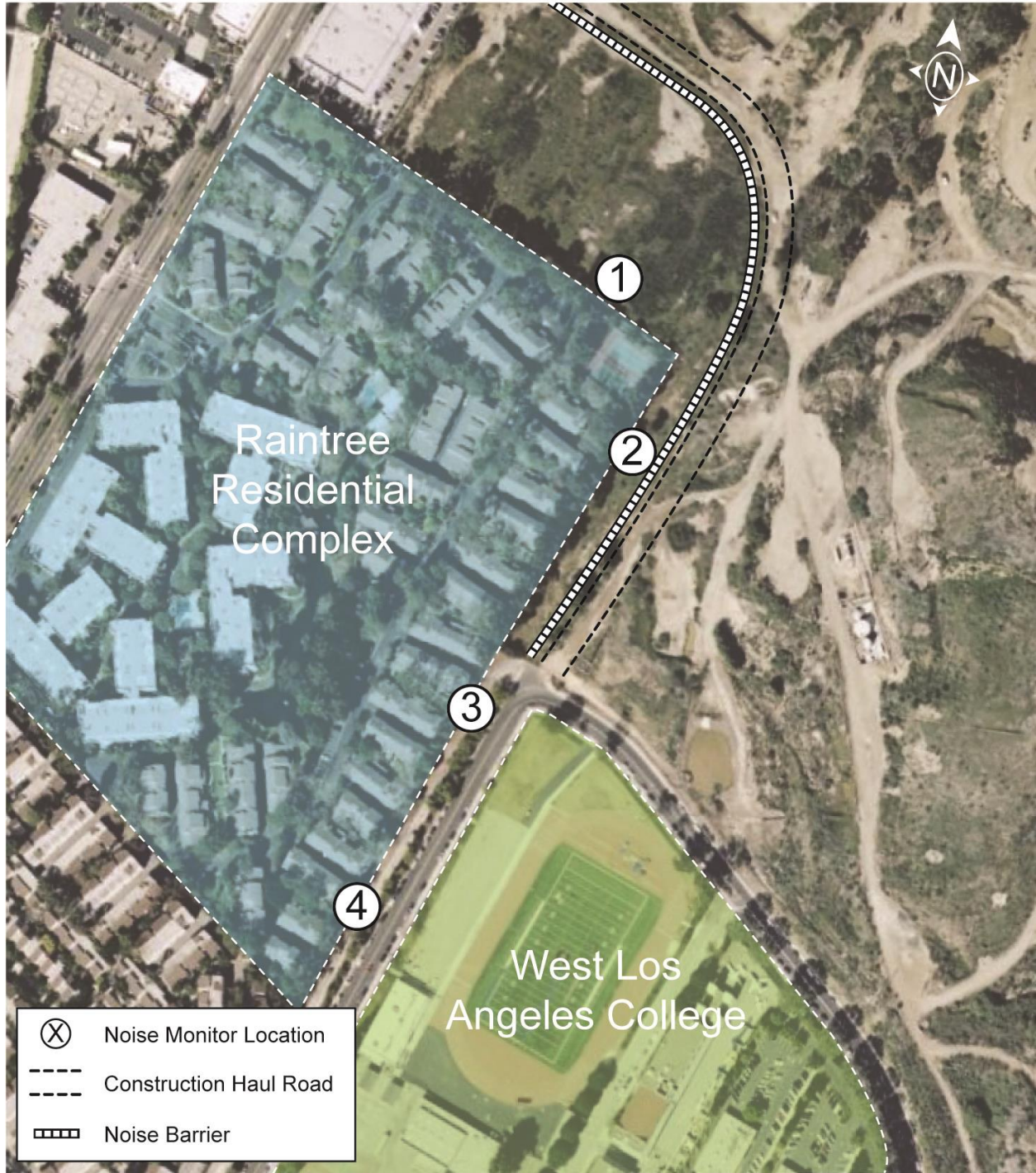


Figure 1: Noise Monitor Locations

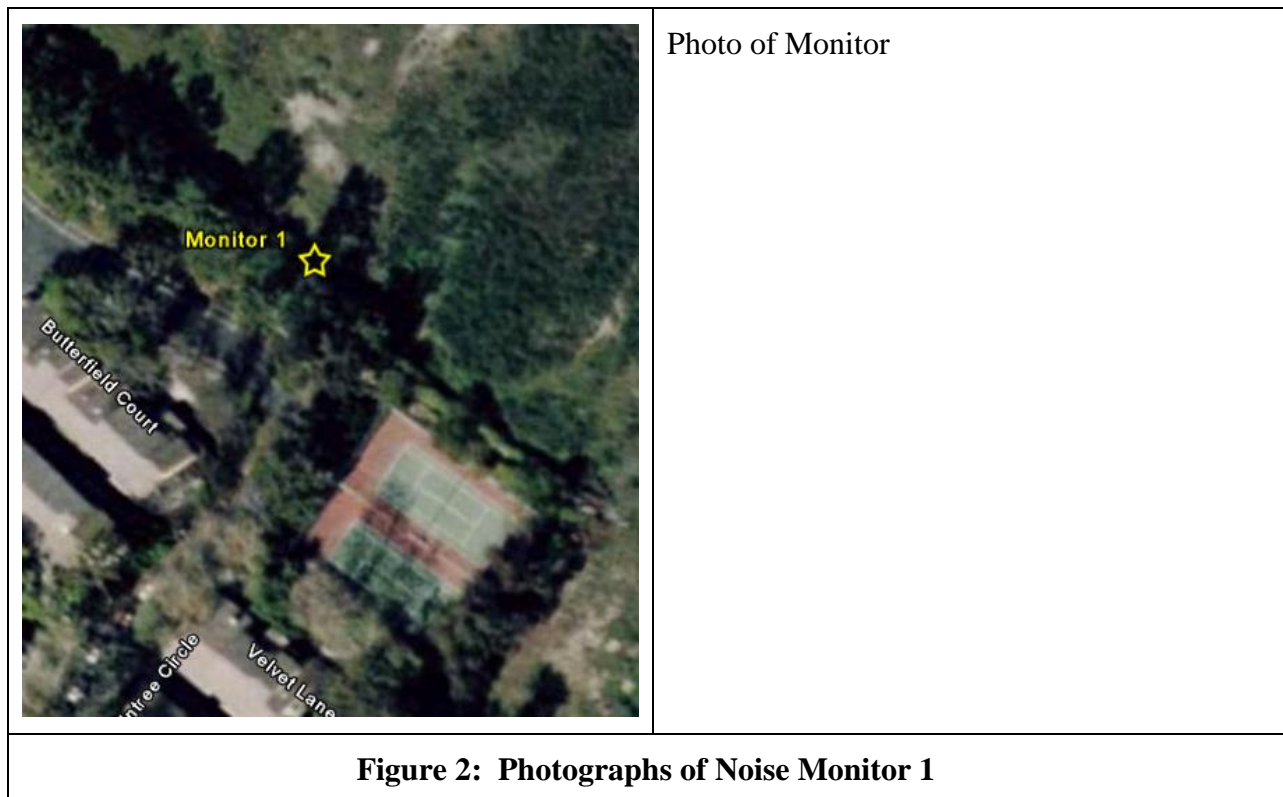


Monitor 1

Monitor 1 is located to the northeast of the Raintree complex, near the property wall that separates Raintree Circle from where the haul road cuts through to Jefferson Boulevard. Due to topography, the microphone head is approximately level with the upper stories of the Raintree residences. The monitor is located about 250 feet away from the closest point on the haul road. Prior to construction activity, the primary noise sources in this area were residential traffic noise and athletic activity on the nearby tennis courts.

Table 1. Summary of Monthly Results, Monitor 1				
Metric	Hourly Sound Level, dBA			
	Average	Maximum	Minimum	Standard Deviation
Day-Night Sound Level (Ldn)	54	66	51	3.6
Daytime Hourly Leq	51	68	47	5.4

Source: ATS Consulting, 2005



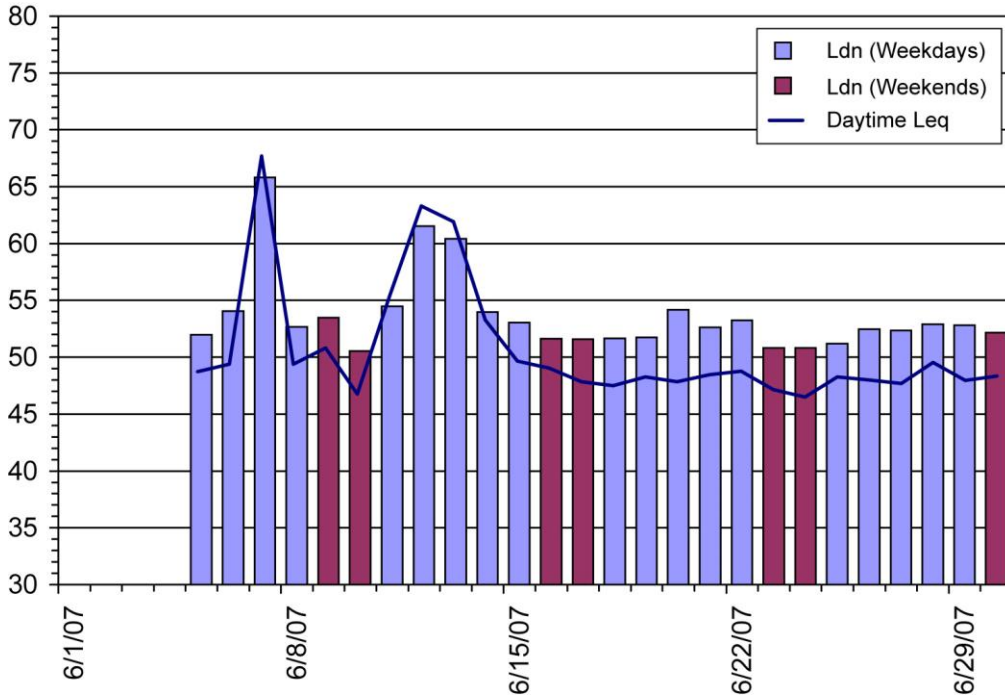


Figure 3: Ldn and Daytime Leq Results

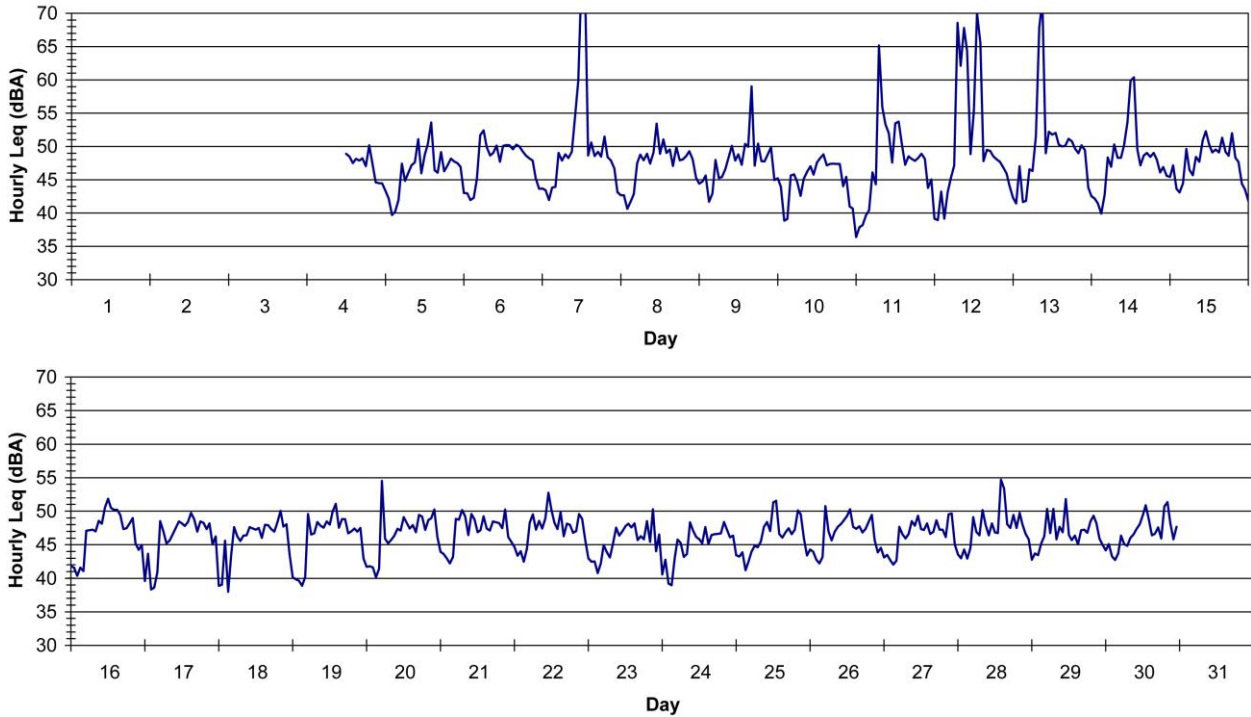


Figure 4: Hourly Leq Results



**Table 2. Daily Results
Monitor 1, June 2007**

Date	Sound Level, dBA			
	Daytime Leq	Maximum	Minimum	Ldn
6/5/2007	49	66	38	52
6/6/2007	49	64	40	54
6/7/2007	68	89	39	66
6/8/2007	49	63	40	53
6/9/2007	51	76	39	53
6/10/2007	47	59	36	51
6/11/2007	55	77	33	54
6/12/2007	63	87	37	62
6/13/2007	62	75	38	60
6/14/2007	53	70	39	54
6/15/2007	50	64	39	53
6/16/2007	49	61	37	52
6/17/2007	48	59	36	52
6/18/2007	47	61	37	52
6/19/2007	48	60	38	52
6/20/2007	48	63	38	54
6/21/2007	48	64	41	53
6/22/2007	49	62	41	53
6/23/2007	47	61	39	51
6/24/2007	47	62	38	51
6/25/2007	48	62	40	51
6/26/2007	48	62	40	52
6/27/2007	48	59	40	52
6/28/2007	50	62	41	53
6/29/2007	48	66	41	53
6/30/2007	48	62	41	52

Source: ATS Consulting, 2005



Discussion

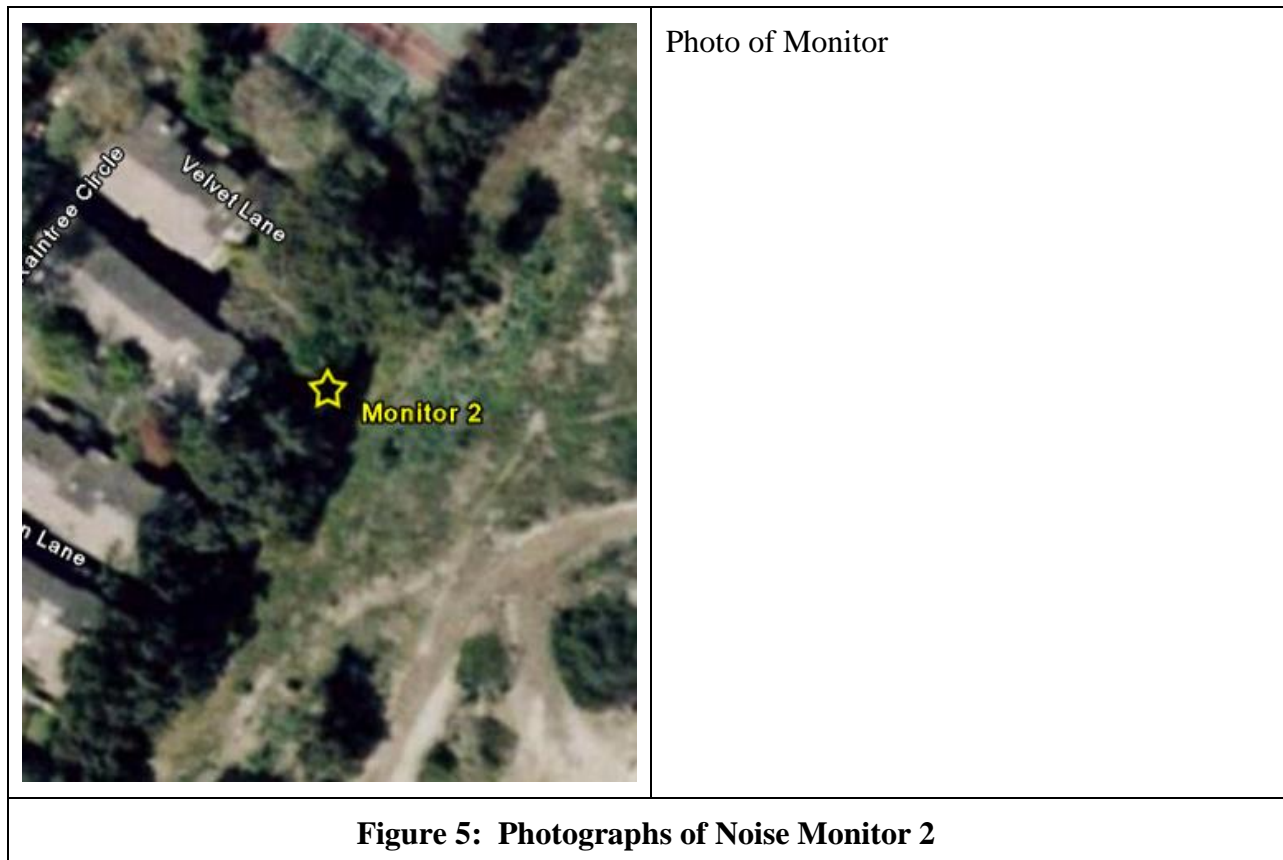
During the month of June there were three days where noise levels were significantly higher than normal – 6/7, 6/12, and 6/13. Both the Ldn and Daytime Leq were in excess of 60 dBA during each day. It is not evident what caused the high noise levels, but it is possible that they were caused by landscaping activities either in the Raintree complex or in brush clearing operations on the vacant land near the monitor.



Monitor 2

Monitor 2 is located near the northeast corner of the Raintree complex, south of the tennis courts and close to the property fence on the eastern edge of the Raintree complex. The microphone head is approximately level with the lower stories of the Raintree residences. The monitor is located about 100 feet away from the closest point on the haul road. Prior to construction activity, the primary noise sources in this area were residential traffic noise and athletic activity on the nearby tennis courts.

Table 3. Summary of Monthly Results, Monitor 1				
Metric	Hourly Sound Level, dBA			
	Average	Maximum	Minimum	Standard Deviation
Day-Night Sound Level (Ldn)	54	62	51	2.2
Daytime Hourly Leq	52	64	49	3.3
Source: ATS Consulting, 2005				



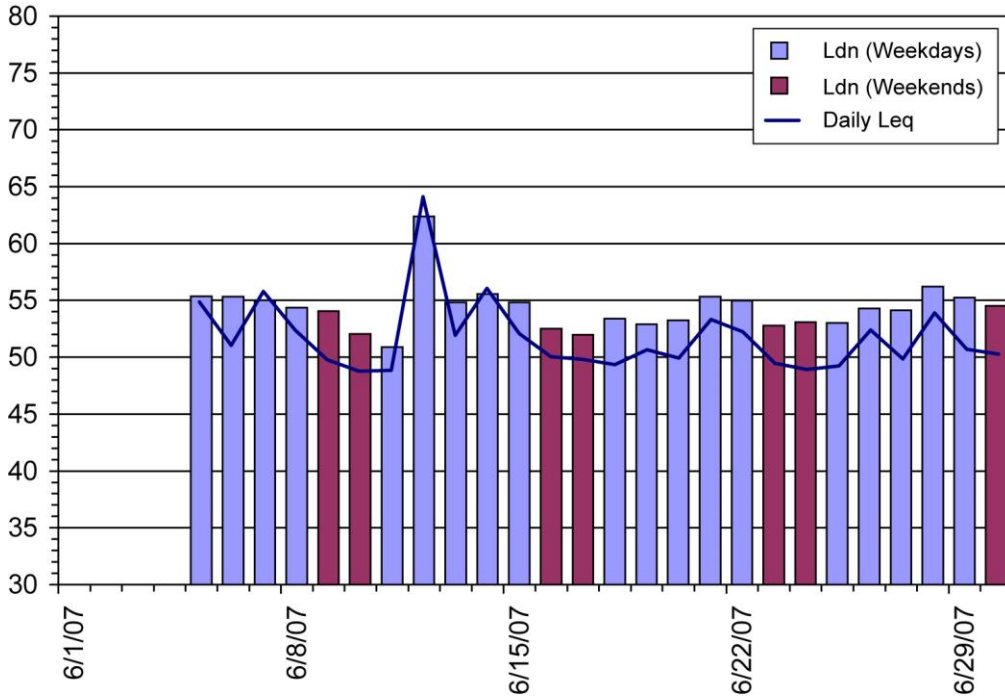


Figure 6: Ldn and Daytime Leq Results

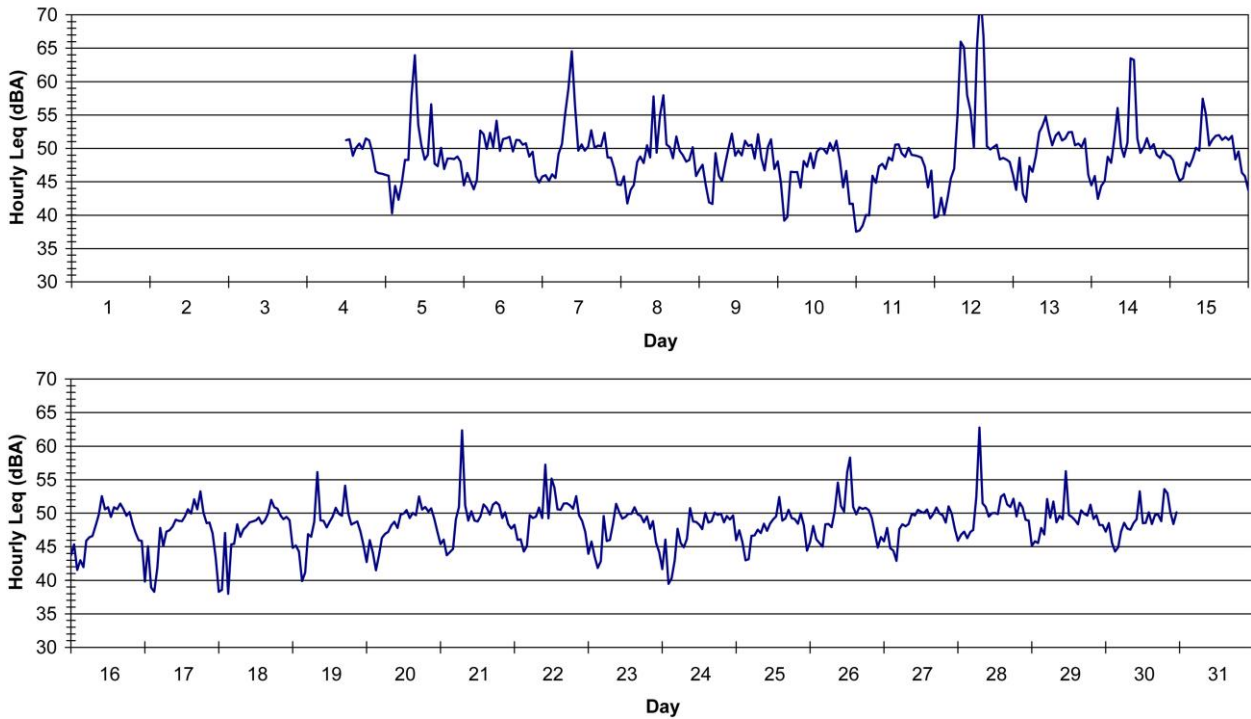


Figure 7: Hourly Leq Results



Date	Sound Level, dBA			
	Daytime Leq	Maximum	Minimum	Ldn
6/5/2007	55	79	38	55
6/6/2007	51	69	41	55
6/7/2007	56	78	40	56
6/8/2007	52	71	40	54
6/9/2007	50	68	39	54
6/10/2007	49	60	35	52
6/11/2007	49	61	33	51
6/12/2007	64	76	36	62
6/13/2007	52	66	39	55
6/14/2007	56	73	39	56
6/15/2007	52	73	39	55
6/16/2007	50	64	37	52
6/17/2007	50	61	36	52
6/18/2007	49	62	36	53
6/19/2007	51	69	38	53
6/20/2007	50	59	38	53
6/21/2007	53	77	41	55
6/22/2007	52	72	42	55
6/23/2007	49	61	39	53
6/24/2007	49	64	37	53
6/25/2007	49	64	41	53
6/26/2007	52	67	41	55
6/27/2007	50	60	40	54
6/28/2007	54	79	42	56
6/29/2007	51	69	41	55
6/30/2007	50	64	42	54

Source: ATS Consulting, 2005



Discussion

During the month of June there was only one day where noise levels were significantly higher than normal – 6/11. Both the Ldn and Daytime Leq were in excess of 60 dBA. It is not evident what caused the high noise levels, but it should be noted that they correspond closely to the noise levels at Monitor 1 during the same time period.