EILAR ASSOCIATES, INC.

Acoustical and Environmental Consulting

210 South Juniper Street, Suite 100, Escondido, CA 92025
Phone: 760-738-5570 or 800-439-8205 • Fax: 760-738-5227
www.eilarassociates.com • info@eilarassociates.com

September 14, 2017

Job #B70904N1

Insignia Environmental
Attention: Armen Keochekian
904 Second Street
Encinitas, California 92024

Subject: Ambient Noise Monitoring for SDG&E Pipeline Safety and Reliability Project – Mainline Valve #6

Per the request of Armen Keochekian of Insignia Environmental, Eilar Associates, Inc. has conducted ambient noise monitoring for the SDG&E Pipeline Safety and Reliability Project. Noise monitoring was performed at the Mainline Valve #6 site in the City of Escondido, California. The purpose of this report is to establish the current ambient noise levels impacting this project site in terms of hourly noise levels.

Sound Level Descriptors

All noise level or sound level values presented herein are expressed in terms of decibels, with A-weighting to approximate the hearing sensitivity of humans. Time-averaged noise levels are expressed by the symbol L_{EQ}, for a specified duration. These metrics are used to express noise levels for both measurement and municipal regulations, and for enforcement of noise ordinances. Further explanation can be provided upon request.

Measurement Equipment

The following equipment was used at the site to measure ambient noise levels:

- Larson Davis Model 720, Type 2 Sound Level Meter, Serial # 0462, with microphone and windscreen
- Larson Davis Model CAL150B, Type 2 Calibrator, Serial # 2056

The sound level meters were field-calibrated immediately prior to the noise measurement and checked afterwards, to ensure accuracy. All sound level measurements conducted and presented in this report, in accordance with the regulations, were made with sound level meters that conform to the American National Standards Institute specifications for sound level meters (ANSI S1.4). All instruments are maintained with National Bureau of Standards traceable calibration, per the manufacturers' standards.

Noise Monitoring Results

A long-term noise measurement was made beginning the morning of Tuesday, September 12, 2017, and running through the afternoon of Wednesday, September 13, 2017. The noise monitor was placed approximately 58 feet northeast of the Centre City Parkway centerline and approximately 86 feet northwest of the West Fifth Avenue centerline. Dominant noise sources in the vicinity of the site include roadway traffic noise from Centre City Parkway and West Fifth Avenue. Results of this long-term noise monitoring conducted at the project site are shown in Table 1. For a graphical representation of the noise monitoring location for this measurement, please refer to Figure 1.

Table 1. Measured Hourly Average Ambient Noise Levels

Date	Hour Beginning	Hourly Average Noise Level (dBA L_{EQ})
September 12, 2017	10:00 AM	65.1
	11:00 AM	64.0
	12:00 PM	64.0
	1:00 PM	65.0
	2:00 PM	64.2
	3:00 PM	66.1
	4:00 PM	65.8
	5:00 PM	67.6
	6:00 PM	66.6
	7:00 PM	63.4
	8:00 PM	63.5
	9:00 PM	60.1
	10:00 PM	60.2
	11:00 PM	54.3
September 13, 2017	12:00 AM	53.6
	1:00 AM	51.6
	2:00 AM	50.6
	3:00 AM	52.8
	4:00 AM	54.7
	5:00 AM	61.8
	6:00 AM	64.7
	7:00 AM	67.0
	8:00 AM	65.3
	9:00 AM	65.3
	10:00 AM	63.4
	11:00 AM	65.5
	12:00 PM	63.8

Measured noise levels were observed to range from 50.6 dBA between the hours of 2 a.m. and 3 a.m. on September 13 to 67.6 dBA between 5 p.m. and 6 p.m. on September 12.

Conclusion and Certification

It should be noted that measured noise levels may vary from day-to-day based on the number of vehicles passing a site, the number of aircraft overflights, or the presence of other unpredictable noise sources, such as nearby construction or special event traffic. The 27 hours of noise monitoring performed for this project are assumed to be generally representative of the current noise environment at the project site.

This report is based on project information received and measured noise levels, and represents a true and factual analysis of the ambient noise environment at the SDG&E Mainline Valve #6 site, located in the City of Escondido. This report was prepared by Mo Ouwenga and Amy Hool.

EILAR ASSOCIATES, INC.

Mo Ouwenga, Acoustical Consultant I

Amy Hool, Senior Acoustical Consultant

Figure

1. Satellite Aerial Photograph Showing Noise Monitoring Location

Eilar Associates, Inc. **210 South Juniper Street, Suite 100** **Escondido, California 92025** **760-738-5570**	**Satellite Aerial Photograph Showing** **Noise Monitoring Location** **Job # B70904N1**	**Figure 1**