

**APPENDIX D**  
**Noise Worksheets**



# Interim Removal Measure Workplan for Ascon Landfill Site

Noise Worksheets

Provided by PCR Services Corporation

September 2009

- D-1 Construction Noise Calculations
- D-2 Truck Traffic Noise Calculations



# Appendix D-1

- Construction Noise Calculations



**Project: ASCON**

**The Interim Removal Measure Work**

**Equipment**

Description	No. of Equip.	Reference Noise		Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
		Level at 50ft, Lmax				
Backhoe	1	80		40%	450	5
Dozer	1	82		40%	450	5
Excavator	1	81		40%	450	5
Rubber Tired Loader	1	79		50%	450	5
Water Trucks	1	80		10%	450	5
Dump/Haul Trucks	1	76		20%	450	5

**Receptor:** *R1*

**Results:**

**Hourly Leq: 59**

Source for Ref. Noise Levels: FHWA, RCNM 2005

**Project: ASCON**

**The Interim Removal Measure Work**

**Equipment**

Description	No. of Equip.	Reference Noise		Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
		Level at 50ft, Lmax				
Backhoe	1	80		40%	550	5
Dozer	1	82		40%	550	5
Excavator	1	81		40%	550	5
Rubber Tired Loader	1	79		50%	550	5
Water Trucks	1	80		10%	550	5
Dump/Haul Trucks	1	76		20%	550	5

**Receptor:** *R2*

**Results:**

**Hourly Leq: 57**

Source for Ref. Noise Levels: FHWA, RCNM 2005

**Project: ASCON**

**The Interim Removal Measure Work**

**Equipment**

Description	No. of Equip.	Reference Noise		Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
		Level at 50ft, Lmax				
Backhoe	1	80		40%	800	5
Dozer	1	82		40%	800	5
Excavator	1	81		40%	800	5
Rubber Tired Loader	1	79		50%	800	5
Water Trucks	1	80		10%	800	5
Dump/Haul Trucks	1	76		20%	800	5

**Receptor:** *R3*

**Results:**

**Hourly Leq: 54**

Source for Ref. Noise Levels: FHWA, RCNM 2005



# Appendix D-2

- Truck Traffic Noise Calculations



Off-Site Truck Traffic Noise Calculations

1 of 2

Existing									
Roadway/Segment	Traffic Volumes			Leq			CNEL		
	AM	PM	ADT	ROW	25 Feet	200 Feet	ROW	25 Feet	200 Feet
Magnolia Street			168	62.2	59.9	54.1	59.2	56.9	51.0
Hamilton Avenue			168	62.2	59.9	54.1	59.2	56.9	51.0
Newland Avenue			168	62.2	59.9	54.1	59.2	56.9	51.0
Atlanta Avenue			168	62.2	59.9	54.1	59.2	56.9	51.0
0			0	-	-	-	-	-	-
Future No Project									
Roadway/Segment	Traffic Volumes			Leq			CNEL		
	AM	PM	ADT	ROW	25 Feet	200 Feet	ROW	25 Feet	200 Feet
Magnolia Street			0	-	-	-	-	-	-
Hamilton Avenue			0	-	-	-	-	-	-
Newland Avenue			0	-	-	-	-	-	-
Atlanta Avenue			0	-	-	-	-	-	-
0			0	-	-	-	-	-	-
Future With Project									
Roadway/Segment	Traffic Volumes			Leq			CNEL		
	AM	PM	ADT	ROW	25 Feet	200 Feet	ROW	25 Feet	200 Feet
Magnolia Street			0	-	-	-	-	-	-
Hamilton Avenue			0	-	-	-	-	-	-
Newland Avenue			0	-	-	-	-	-	-
Atlanta Avenue			0	-	-	-	-	-	-
0			0	-	-	-	-	-	-

CNEL				
Summary	25 ft. from ROW		At ROW	
	Project Increment	Cumulative Increment	Project Increment	Cumulative Increment
Magnolia Street	-	-	-	-
Hamilton Avenue	-	-	-	-
Newland Avenue	-	-	-	-
Atlanta Avenue	-	-	-	-
0	-	-	-	-

Off-Site Truck Traffic Noise Calculations  
2 of 2

Existing									
Roadway/Segment	Traffic Volumes			Leq			CNEL		
	AM	PM	ADT	ROW	25 Feet	50 Feet	ROW	25 Feet	50 Feet
Beach Boulevard			168	61.8	59.7	58.3	58.8	56.7	55.3
Brookhurst Street			168	62.2	59.9	58.4	59.2	56.9	55.4
Pacific Coast HWY			168	63.0	60.4	58.8	60.0	57.4	55.8
	0		0	-	-	-	-	-	-
	0		0	-	-	-	-	-	-
Future No Project									
Roadway/Segment	Traffic Volumes			Leq			CNEL		
	AM	PM	ADT	ROW	25 Feet	50 Feet	ROW	25 Feet	50 Feet
Beach Boulevard			0	-	-	-	-	-	-
Brookhurst Street			0	-	-	-	-	-	-
Pacific Coast HWY			0	-	-	-	-	-	-
	0		0	-	-	-	-	-	-
	0		0	-	-	-	-	-	-
Future With Project									
Roadway/Segment	Traffic Volumes			Leq			CNEL		
	AM	PM	ADT	ROW	25 Feet	50 Feet	ROW	25 Feet	50 Feet
Beach Boulevard			0	-	-	-	-	-	-
Brookhurst Street			0	-	-	-	-	-	-
Pacific Coast HWY			0	-	-	-	-	-	-
	0		0	-	-	-	-	-	-
	0		0	-	-	-	-	-	-

Summary	CNEL			
	25 ft. from ROW		At ROW	
	Project Increment	Cumulative Increment	Project Increment	Cumulative Increment
Beach Boulevard	-	-	-	-
Brookhurst Street	-	-	-	-
Pacific Coast HWY	-	-	-	-
	0	-	-	-
	0	-	-	-