

**Former ASARCO-Encycle Demolition  
Particulate Monitoring Summary  
Week Ending 07-29-12**

Date: 7/23/2012 Technician: Carl Jones

Prevailing Wind Direction	Time	Unit 2-Upwind Reading	Unit 1-Downwind Reading	Action Level	Stop Work
SSE	6:00 AM	30 min Avg	0	30 min Avg 0.022	0.035 0.045
SSE	6:30 AM	30 min Avg	0	30 min Avg 0.019	0.035 0.045
SSE	7:00 AM	30 min Avg	0	30 min Avg 0.011	0.035 0.045
SSE	7:30 AM	30 min Avg	0	30 min Avg 0.019	0.035 0.045
SSE	8:00 AM	30 min Avg	0	30 min Avg 0.009	0.035 0.045
SSE	8:30 AM	30 min Avg	0	30 min Avg 0.006	0.035 0.045
S	9:00 AM	30 min Avg	0	30 min Avg 0.035	0.035 0.045
S	9:30 AM	30 min Avg	0	30 min Avg 0	0.035 0.045
S	10:00 AM	30 min Avg	0	30 min Avg 0.01	0.035 0.045
SE	10:30 AM	30 min Avg	0	30 min Avg 0.007	0.035 0.045
SE	11:00 AM	30 min Avg	0	30 min Avg 0.001	0.035 0.045
ESE	11:30 AM	30 min Avg	0	30 min Avg 0	0.035 0.045
ESE	12:00 PM	30 min Avg	0	30 min Avg 0	0.035 0.045
ESE	12:30 PM	30 min Avg	0	30 min Avg 0.006	0.035 0.045
ESE	1:00 PM	30 min Avg	0	30 min Avg 0.004	0.035 0.045
ESE	1:30 PM	30 min Avg	0	30 min Avg 0.003	0.035 0.045
ESE	2:00 PM	30 min Avg	0	30 min Avg 0.007	0.035 0.045
ESE	2:30 PM	30 min Avg	0	30 min Avg 0.006	0.035 0.045
ESE	3:00 PM	30 min Avg	0	30 min Avg 0	0.035 0.045
	3:30 PM	30 min Avg		30 min Avg	0.035 0.045
	4:00 PM	30 min Avg		30 min Avg	0.035 0.045
	4:30 PM	30 min Avg		30 min Avg	0.035 0.045
	5:00 PM	30 min Avg		30 min Avg	0.035 0.045
	5:30 PM	30 min Avg		30 min Avg	0.035 0.045

E-BAM locations ( Downwind) NW- west of building 14

**'Action Levels**

Action level = upwind concentration + 0.035 mg/m3

Stop Work Level = upwind concentration + 0.045 mg/m3

*Note time/duration of work stoppage: The 9:00 reading reached an action level. Dust suppression was added to roadways and work areas.*

*All work ended at 2:30.*

**Notes:**

All readings in mg/m3

Blue text readings are pre-work levels that were collected during the E-Bam instrument warm-up period and are not considered accurate.

**Former ASARCO-Encycle Demolition  
Particulate Monitoring Summary  
Week Ending 07-29-12**

Date: 7/24/2012 Technician: Carl Jones

Prevailing Wind		Time	Unit 2-Upwind Reading		Unit 1-Downwind Reading		Action Level	Stop Work
Direction								
SSE	6:00 AM	30 min Avg	0	30 min Avg	0.017	0.035	0.045	
SSE	6:30 AM	30 min Avg	0	30 min Avg	0.012	0.035	0.045	
SSE	7:00 AM	30 min Avg	0	30 min Avg	0.013	0.035	0.045	
SSE	7:30 AM	30 min Avg	0	30 min Avg	0.003	0.035	0.045	
S	8:00 AM	30 min Avg	0	30 min Avg	0	0.035	0.045	
S	8:30 AM	30 min Avg	0	30 min Avg	0.009	0.035	0.045	
S	9:00 AM	30 min Avg	0	30 min Avg	0.012	0.035	0.045	
S	9:30 AM	30 min Avg	0	30 min Avg	0.02	0.035	0.045	
S	10:00 AM	30 min Avg	0	30 min Avg	0.003	0.035	0.045	
S	10:30 AM	30 min Avg	0	30 min Avg	0.011	0.035	0.045	
S	11:00 AM	30 min Avg	0	30 min Avg	0.003	0.035	0.045	
SE	11:30 AM	30 min Avg	0	30 min Avg	0.013	0.035	0.045	
SE	12:00 PM	30 min Avg	0	30 min Avg	0.01	0.035	0.045	
SE	12:30 PM	30 min Avg	0	30 min Avg	0.015	0.035	0.045	
SE	1:00 PM	30 min Avg	0	30 min Avg	0.006	0.035	0.045	
SE	1:30 PM	30 min Avg	0	30 min Avg	0.013	0.035	0.045	
SE	2:00 PM	30 min Avg	0	30 min Avg	0.017	0.035	0.045	
SE	2:30 PM	30 min Avg	0	30 min Avg	0.006	0.035	0.045	
SE	3:00 PM	30 min Avg	0	30 min Avg	0	0.035	0.045	
ESE	3:30 PM	30 min Avg	0	30 min Avg	0.017	0.035	0.045	
	4:00 PM	30 min Avg		30 min Avg *		0.035	0.045	
	4:30 PM	30 min Avg		30 min Avg		0.035	0.045	
	5:00 PM	30 min Avg		30 min Avg		0.035	0.045	
	5:30 PM	30 min Avg		30 min Avg		0.035	0.045	

E-BAM locations (Downwind) NW- west of building 14

**Action Levels**

Action level = upwind concentration + 0.035 mg/m3  
 Stop Work Level = upwind concentration + 0.045 mg/m3

*Note time/duration of work stoppage:*

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**Notes:**

All readings in mg/m3  
 Blue text readings are pre-work levels that were collected during the E-Bam instrument warm-up period and are not considered accurate.

**Former ASARCO-Encycle Demolition  
Particulate Monitoring Summary  
Week Ending 07-29-12**

Date: 7/25/2012 Technician: Carl Jones

**Prevailing Wind**

Direction	Time	Unit 2-Upwind Reading	Unit 1-Downwind Reading	Action Level	Stop Work
S	6:00 AM	30 min Avg	0	0.014	0.035
S	6:30 AM	30 min Avg	0	0.008	0.035
S	7:00 AM	30 min Avg	0	0.008	0.035
S	7:30 AM	30 min Avg	0	0.005	0.035
S	8:00 AM	30 min Avg	0	0.003	0.035
S	8:30 AM	30 min Avg	0	0.007	0.035
S	9:00 AM	30 min Avg	0	0.005	0.035
S	9:30 AM	30 min Avg	0	0.026	0.035
S	10:00 AM	30 min Avg	0	0.011	0.035
S	10:30 AM	30 min Avg	0	0	0.035
SSE	11:00 AM	30 min Avg	0	0.003	0.035
SSE	11:30 AM	30 min Avg	0	0.005	0.035
SSE	12:00 PM	30 min Avg	0	0.007	0.035
SE	12:30 PM	30 min Avg	0	0	0.035
SE	1:00 PM	30 min Avg	0	0.004	0.035
SE	1:30 PM	30 min Avg	0	0.003	0.035
SE	2:00 PM	30 min Avg	0	0.012	0.035
SE	2:30 PM	30 min Avg	0	0.005	0.035
SE	3:00 PM	30 min Avg	0	0	0.035
SE	3:30 PM	30 min Avg	0	0.014	0.035
	4:00 PM	30 min Avg			0.035
	4:30 PM	30 min Avg			0.035
	5:00 PM	30 min Avg			0.035
	5:30 PM	30 min Avg			0.035
	6:00PM	30 min Avg			0.035

E-BAM locations (Downwind) NW- west of bldg. 14

**Action Levels**

Action level = upwind concentration + 0.035 mg/m<sup>3</sup>

Stop Work Level = upwind concentration + 0.045 mg/m<sup>3</sup>

*Note time/duration of work stoppage:*

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**Notes:**

All readings in mg/m<sup>3</sup>

Blue text readings are pre-work levels that were collected during the E-Bam instrument warm-up period and are considered accurate.

**Former ASARCO-Encycle Demolition  
Particulate Monitoring Summary  
Week Ending 07-29-12**

Date: 7/26/2012 Technician: Carl Jones

Prevailing Wind Direction	Time	Unit 2-Upwind Reading	Unit 1-Downwind Reading	Action Level	Stop Work
S	6:00 AM	30 min Avg	0	0.031	0.045
S	6:30 AM	30 min Avg	0	0.019	0.045
S	7:00 AM	30 min Avg	0	0.021	0.045
S	7:30 AM	30 min Avg	0	0.026	0.045
S	8:00 AM	30 min Avg	0	0.014	0.045
S	8:30 AM	30 min Avg	0	0.016	0.045
S	9:00 AM	30 min Avg	0	0.02	0.045
S	9:30 AM	30 min Avg	0	0.026	0.045
S	10:00 AM	30 min Avg	0	0.013	0.045
S	10:30 AM	30 min Avg	0	0.037	0.045
S	11:00 AM	30 min Avg	0	0.028	0.045
SSE	11:30 AM	30 min Avg	0	0.034	0.045
SSE	12:00 PM	30 min Avg	0	0.023	0.045
SSE	12:30 PM	30 min Avg	0	0.014	0.045
SE	1:00 PM	30 min Avg	0	0.03	0.045
SE	1:30 PM	30 min Avg	0	0.025	0.045
SE	2:00 PM	30 min Avg	0	0.023	0.045
SE	2:30 PM	30 min Avg	0	0.018	0.045
SE	3:00 PM	30 min Avg	0	0.024	0.045
SE	3:30 PM	30 min Avg	0	0.015	0.045
SE	4:00 PM	30 min Avg	0	0.032	0.045
SE	4:30 PM	30 min Avg	0	0.021	0.045
SE	5:00 PM	30 min Avg	0	0.025	0.045
SE	5:30 PM	30 min Avg	0	0.032	0.045
	6:00 PM	30 min Avg			0.045

E-BAM locations (Downwind) NW- west of building 14

**Action Levels**

Action level = upwind concentration + 0.035 mg/m<sup>3</sup>

Stop Work Level = upwind concentration + 0.045 mg/m<sup>3</sup>

Note time/duration of work stoppage: The 10:30 reading reached an action level. Light rain during the morning provided dust suppression to the job site.

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**Notes:**

All readings in mg/m<sup>3</sup>

Blue text readings are pre-work levels that were collected during the E-Bam instrument warm-up period and are not considered accurate.

**Former ASARCO-Encycle Demolition  
Particulate Monitoring Summary  
Week Ending 07-29-12**

Date: 7/27/2012 Technician: Carl Jones

**Prevailing Wind**

Direction	Time	Unit 2-Upwind Reading	Unit 1-Downwind Reading	Action Level	Stop Work
SE	6:00 AM	30 min Avg	0	30 min Avg 0.036	0.035 0.045
SE	6:30 AM	30 min Avg	0	30 min Avg 0.027	0.035 0.045
SE	7:00 AM	30 min Avg	0	30 min Avg 0.04	0.035 0.045
SE	7:30 AM	30 min Avg	0	30 min Avg 0.024	0.035 0.045
SE	8:00 AM	30 min Avg	0	30 min Avg 0.03	0.035 0.045
SE	8:30 AM	30 min Avg	0	30 min Avg 0.023	0.035 0.045
SE	9:00 AM	30 min Avg	0	30 min Avg 0.031	0.035 0.045
SE	9:30 AM	30 min Avg	0	30 min Avg 0.047	0.035 0.045
SE	10:00 AM	30 min Avg	0	30 min Avg 0.028	0.035 0.045
SE	10:30 AM	30 min Avg	0	30 min Avg 0.016	0.035 0.045
SE	11:00 AM	30 min Avg	0	30 min Avg 0.027	0.035 0.045
SE	11:30 AM	30 min Avg	0	30 min Avg 0.032	0.035 0.045
SE	12:00 PM	30 min Avg	0	30 min Avg 0.018	0.035 0.045
SE	12:30 PM	30 min Avg	0	30 min Avg 0.015	0.035 0.045
SE	1:00 PM	30 min Avg	0	30 min Avg 0.038	0.035 0.045
SE	1:30 PM	30 min Avg	0	30 min Avg 0.024	0.035 0.045
SE	2:00 PM	30 min Avg	0	30 min Avg 0.038	0.035 0.045
SE	2:30 PM	30 min Avg	0	30 min Avg 0.024	0.035 0.045
SE	3:00 PM	30 min Avg	0	30 min Avg 0.03	0.035 0.045
SE	3:30 PM	30 min Avg	0	30 min Avg 0.027	0.035 0.045
	4:00 PM	30 min Avg		30 min Avg	0.035 0.045
	4:30 PM	30 min Avg		30 min Avg	0.035 0.045
	5:00 PM	30 min Avg		30 min Avg	0.035 0.045
	5:30 PM	30 min Avg		30 min Avg	0.035 0.045

E-BAM locations (Downwind) NW- west of building 14

**Action Levels**

Action level = upwind concentration + 0.035 mg/m<sup>3</sup>

Stop Work Level = upwind concentration + 0.045 mg/m<sup>3</sup>

Note time/duration of work stoppage: The 9:30 reading reached a stop work level. All work stopped for 30 minutes until the next reading had shown that work could continue. The 1:00 and 2:00 readings reached action levels. The only work happening after lunch was pumping water out of the large sump at the West Cell House.

**Notes:**

All readings in mg/m<sup>3</sup>

Blue text readings are pre-work levels that were collected during the E-Bam instrument warm-up period and are not considered accurate.

**Former ASARCO-Encycle Demolition  
Particulate Monitoring Summary  
Week Ending 07-29-12**

Date: 7/28/2012 Technician: Carl Jones

Prevailing Wind Direction	Time	Unit 2-Upwind Reading	Unit 1-Downwind Reading	Action Level	Stop Work
	6:00 AM	30 min Avg	30 min Avg	0.035	0.045
	6:30 AM	30 min Avg	30 min Avg	0.035	0.045
	7:00 AM	30 min Avg	30 min Avg	0.035	0.045
	7:30 AM	30 min Avg	30 min Avg	0.035	0.045
	8:00 AM	30 min Avg	30 min Avg	0.035	0.045
	8:30 AM	30 min Avg	30 min Avg	0.035	0.045
	9:00 AM	30 min Avg	30 min Avg	0.035	0.045
	9:30 AM	30 min Avg	30 min Avg	0.035	0.045
	10:00 AM	30 min Avg	30 min Avg	0.035	0.045
	10:30 AM	30 min Avg	30 min Avg	0.035	0.045
	11:00 AM	30 min Avg	30 min Avg	0.035	0.045
	11:30 AM	30 min Avg	30 min Avg	0.035	0.045
	12:00 PM	30 min Avg	30 min Avg	0.035	0.045
	12:30 PM	30 min Avg	30 min Avg	0.035	0.045
	1:00 PM	30 min Avg	30 min Avg	0.035	0.045
	1:30 PM	30 min Avg	30 min Avg	0.035	0.045
	2:00 PM	30 min Avg	30 min Avg	0.035	0.045
	2:30 PM	30 min Avg	30 min Avg	0.035	0.045
	3:00 PM	30 min Avg	30 min Avg	0.035	0.045
	3:30 PM	30 min Avg	30 min Avg	0.035	0.045
	4:00 PM	30 min Avg	30 min Avg	0.035	0.045
	4:30 PM	30 min Avg	30 min Avg	0.035	0.045
	5:00 PM	30 min Avg	30 min Avg	0.035	0.045
	5:30 PM	30 min Avg	30 min Avg	0.035	0.045

E-BAM locations

**Action Levels**

Action level = upwind concentration + 0.035 mg/m<sup>3</sup>

Stop Work Level = upwind concentration + 0.045 mg/m<sup>3</sup>

*Note time/duration of work stoppage:*

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**Notes:**

All readings in mg/m<sup>3</sup>

Blue text readings are pre-work levels that were collected during the E-Bam instrument warm-up period and are not considered accurate.

**Former ASARCO-Encycle Demolition  
Particulate Monitoring Summary  
Week Ending 07-29-12**

Date: 7/29/2012 Technician: Carl Jones

Prevailing Wind Direction	Time	Unit 2-Upwind Reading	Unit 1-Downwind Reading	Action Level	Stop Work
	6:00 AM	30 min Avg	30 min Avg	0.035	0.045
	6:30 AM	30 min Avg	30 min Avg	0.035	0.045
	7:00 AM	30 min Avg	30 min Avg	0.035	0.045
	7:30 AM	30 min Avg	30 min Avg	0.035	0.045
	8:00 AM	30 min Avg	30 min Avg	0.035	0.045
	8:30 AM	30 min Avg	30 min Avg	0.035	0.045
	9:00 AM	30 min Avg	30 min Avg	0.035	0.045
	9:30 AM	30 min Avg	30 min Avg	0.035	0.045
	10:00 AM	30 min Avg	30 min Avg	0.035	0.045
	10:30 AM	30 min Avg	30 min Avg	0.035	0.045
	11:00 AM	30 min Avg	30 min Avg	0.035	0.045
	11:30 AM	30 min Avg	30 min Avg	0.035	0.045
	12:00 PM	30 min Avg	30 min Avg	0.035	0.045
	12:30 PM	30 min Avg	30 min Avg	0.035	0.045
	1:00 PM	30 min Avg	30 min Avg	0.035	0.045
	1:30 PM	30 min Avg	30 min Avg	0.035	0.045
	2:00 PM	30 min Avg	30 min Avg	0.035	0.045
	2:30 PM	30 min Avg	30 min Avg	0.035	0.045
	3:00 PM	30 min Avg	30 min Avg	0.035	0.045
	3:30 PM	30 min Avg	30 min Avg	0.035	0.045
	4:00 PM	30 min Avg	30 min Avg	0.035	0.045
	4:30 PM	30 min Avg	30 min Avg	0.035	0.045
	5:00 PM	30 min Avg	30 min Avg	0.035	0.045
	5:30 PM	30 min Avg	30 min Avg	0.035	0.045
	6:00PM	30 min Avg	30 min Avg	0.035	0.045

E-BAM locations

**Action Levels**

Action level = upwind concentration + 0.035 mg/m<sup>3</sup>

Stop Work Level = upwind concentration + 0.045 mg/m<sup>3</sup>

*Note time/duration of work stoppage:*

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**Notes:**

All readings in mg/m<sup>3</sup>

Blue text readings are pre-work levels that were collected during the E-Bam instrument warm-up period and are considered accurate.