

**Former ASARCO-Encycle Demolition
Particulate Monitoring Summary
Week Ending 09-24-11**

Date: 9/19/11 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	0.000	30 min Avg	0.000	0.035	0.045
S	6:30 AM	30 min Avg	0.005	30 min Avg	0.032	0.040	0.050
S	7:00 AM	30 min Avg	0.084	30 min Avg	0.077	0.119	0.129
S	7:30 AM	30 min Avg	0.004	30 min Avg	0.003	0.039	0.049
S	8:00 AM	30 min Avg	0.000	30 min Avg	0.022	0.035	0.045
S	8:30 AM	30 min Avg	0.048	30 min Avg	0.005	0.083	0.093
S	9:00 AM	30 min Avg	0.004	30 min Avg	0.012	0.039	0.049
N	9:30 AM	30 min Avg	0.000	30 min Avg	0.012	0.005	0.007
N	10:00 AM	30 min Avg	0.001	30 min Avg	0.004	0.006	0.008
N	10:30 AM	30 min Avg	0.003	30 min Avg	0.014	0.008	0.010
N	11:00 AM	30 min Avg	0.001	30 min Avg	0.009	0.006	0.008
N	11:30 AM	30 min Avg	0.007	30 min Avg	0.003	0.012	0.014

Notes:

All readings in mg/m³

Action Levels for wind without a northerly component

Action level = upwind concentration + 0.035 mg/m³

Stop Work Level = upwind concentration + 0.045 mg/m³

Note time/duration of work stoppage:

Action Levels for wind with a northerly component (Implement Sept. 14 thru Sept 28)

Action level = upwind concentration + 0.005 mg/m³

Stop Work Level = upwind concentration + 0.007 mg/m³

Note time/duration of work stoppage: 9:38 AM: The particulate matter concentration reading exceeded the site "Stop Work" level; all demo, abatement and waste removal ceased for 30 minutes. At 10:08 AM, work resumed after collection of the PM concentration reading downwind and it was observed to be below both the site Action and Stop Work levels. 10:38 AM: The PM concentration reading exceeded the site "Stop Work" level for a second time. As a result, all work on site immediately ceased and the site was shut down for the remainder of the day. Two additional readings were collected after all equipment shut down and all personnel had departed the site.

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

Note: Revised action levels in bold in effect 9/14/11 thru 9/28/11, only when measured wind direction has northerly component.

**Former ASARCO-Encycle Demolition
Particulate Monitoring Summary
Week Ending 09-24-11**

Date: 9/21/11 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	0.000	0.035	0.045
S	6:30 AM	30 min Avg	0.006	0.038	0.051
S	7:00 AM	30 min Avg	0.015	0.049	0.060
SSW	7:30 AM	30 min Avg	0.019	0.026	0.064
S	8:00 AM	30 min Avg	0.045	0.005	0.080
SSW	8:30 AM	30 min Avg	0.036	0.016	0.081
S	9:00 AM	30 min Avg	0.000	0.000	0.035
SSW	9:30 AM	30 min Avg	0.000	0.000	0.035
S	10:00 AM	30 min Avg	0.000	0.000	0.035
ENE	10:30 AM	30 min Avg	0.000	0.001	0.005
N	11:00 AM	30 min Avg	0.027	0.008	0.032
N	11:30 AM	30 min Avg	0.000	0.003	0.005
ENE	12:00 PM	30 min Avg	0.003	0.000	0.008
E	12:30 PM	30 min Avg	0.004	0.013	0.039
E	1:00 PM	30 min Avg	0.018	0.007	0.053
E	1:30 PM	30 min Avg	0.008	0.000	0.043
E	2:00 PM	30 min Avg	0.005	0.014	0.050
E	2:30 PM	30 min Avg	0.009	0.003	0.044
E	3:00 PM	30 min Avg	0.000	0.002	0.035
E	3:30 PM	30 min Avg	0.012	0.007	0.047
E	4:00 PM	30 min Avg	0.010	0.006	0.045
E	4:30 PM	30 min Avg	0.000	0.014	0.035
E	5:00 PM	30 min Avg	0.008	0.005	0.043
E	5:30 PM	30 min Avg	0.014	0.007	0.049

Notes:

All readings in mg/m3

Action Levels for wind without a northerly component

Action level = upwind concentration + 0.035 mg/m3

Stop Work Level = upwind concentration + 0.045 mg/m3

Note time/duration of work stoppage: At 11:35 a.m., moved downwind E-Bam unit to SW side of property line. The unit was moved during lull and work resumed at 12:30 p.m. Forecasted winds for the afternoon: ENE-E.

Action Levels for wind with a northerly component (Implement Sept. 14 thru Sept 28)

Action level = upwind concentration + 0.005 mg/m3

Stop Work Level = upwind concentration + 0.007 mg/m3

Note time/duration of work stoppage: Wind shifted to a northerly direction at 10:25 a.m. The winds were light and variable and there was a 5-degree deviation in wind direction between 10:00 a.m. and 11:00 a.m.; a 22 degree deviation between 11:00 a.m. and 12:00 a.m.

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

Note: Revised action levels in bold in effect 9/14/11 thru 9/28/11, only when measured wind direction has northerly component.

