

**Former ASARCO-Encycle Demolition
Particulate Monitoring Summary
Week Ending 10-01-11**

Date: 9/26/11 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	0.000	30 min Avg	0.035	0.045
SSE	6:30 AM	30 min Avg	0.000	30 min Avg	0.035	0.045
SSE	7:00 AM	30 min Avg	0.039	30 min Avg	0.074	0.084
SSE	7:30 AM	30 min Avg	0.004	30 min Avg	0.039	0.049
SSE	8:00 AM	30 min Avg	0.027	30 min Avg	0.062	0.072
SSE	8:30 AM	30 min Avg	0.025	30 min Avg	0.060	0.070
SSE	9:00 AM	30 min Avg	0.002	30 min Avg	0.037	0.047
SSE	9:30 AM	30 min Avg	0.000	30 min Avg	0.035	0.045
SSE	10:00 AM	30 min Avg	0.000	30 min Avg	0.035	0.045
SE	10:30 AM	30 min Avg	0.000	30 min Avg	0.035	0.045
SE	11:00 AM	30 min Avg	0.000	30 min Avg	0.035	0.045
SSE	11:30 AM	30 min Avg	0.000	30 min Avg	0.035	0.045
SSE	12:00 PM	30 min Avg	0.001	30 min Avg	0.036	0.046
SE	12:30 PM	30 min Avg	0.000	30 min Avg	0.035	0.045
SE	1:00 PM	30 min Avg	0.010	30 min Avg	0.045	0.055
SE	1:30 PM	30 min Avg	0.009	30 min Avg	0.044	0.054
SE	2:00 PM	30 min Avg	0.010	30 min Avg	0.045	0.055
SE	2:30 PM	30 min Avg	0.000	30 min Avg	0.035	0.045
SE	3:00 PM	30 min Avg	0.003	30 min Avg	0.038	0.048
SE	3:30 PM	30 min Avg	0.012	30 min Avg	0.047	0.057
SE	4:00 PM	30 min Avg	0.007	30 min Avg	0.042	0.052
SE	4:30 PM	30 min Avg	0.007	30 min Avg	0.042	0.052
SE	5:00 PM	30 min Avg	0.004	30 min Avg	0.039	0.049
SE	5:30 PM	30 min Avg	0.002	30 min Avg	0.037	0.047

Notes: E-Bam Locations-Unit 2 location (Upwind): SE Corner of site; Unit 1 (downwind) location: NW of Bldg 14

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: **None**

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:

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

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 10-01-11**

Date: 9/27/11 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	0.000	0.035	0.045
SSE	6:30 AM	30 min Avg	0.000	0.035	0.045
SSE	7:00 AM	30 min Avg	0.077	0.112	0.122
SSE	7:30 AM	30 min Avg	0.015	0.050	0.060
SSE	8:00 AM	30 min Avg	0.015	0.050	0.060
SSE	8:30 AM	30 min Avg	0.010	0.045	0.055
SSE	9:00 AM	30 min Avg	0.000	0.035	0.045
SSE	9:30 AM	30 min Avg	0.000	0.035	0.045
SSE	10:00 AM	30 min Avg	0.000	0.035	0.045
SSE	10:30 AM	30 min Avg	0.002	0.037	0.047
SSE	11:00 AM	30 min Avg	0.000	0.035	0.045
SSE	11:30 AM	30 min Avg	0.013	0.048	0.058
SSE	12:00 PM	30 min Avg	0.004	0.039	0.049
SSE	12:30 PM	30 min Avg	0.021	0.056	0.066
SE	1:00 PM	30 min Avg	0.015	0.050	0.060
SE	1:30 PM	30 min Avg	0.011	0.046	0.056
SE	2:00 PM	30 min Avg	0.016	0.051	0.061
SE	2:30 PM	30 min Avg	0.006	0.041	0.051
SE	3:00 PM	30 min Avg	0.012	0.047	0.057
SE	3:30 PM	30 min Avg	0.022	0.057	0.067
SE	4:00 PM	30 min Avg	0.008	0.043	0.053
SE	4:30 PM	30 min Avg	0.015	0.050	0.060
SE	5:00 PM	30 min Avg	0.024	0.059	0.069
SE	5:30 PM	30 min Avg	0.021	0.056	0.066

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: **NONE**

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:

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 10-01-11**

Date: 9/28/11 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	0.014	0.049	0.059
S	7:00 AM	30 min Avg	0.052	0.087	0.097
S	7:30 AM	30 min Avg	0.051	0.086	0.096
S	8:00 AM	30 min Avg	0.000	0.035	0.045
SSW	8:30 AM	30 min Avg	0.038	0.073	0.083
SSW	9:00 AM	30 min Avg	0.050	0.085	0.095
S	9:30 AM	30 min Avg	0.000	0.035	0.045
SSW	10:00 AM	30 min Avg	0.000	0.035	0.045
S	10:30 AM	30 min Avg	0.007	0.042	0.052
S	11:00 AM	30 min Avg	0.000	0.035	0.045
S	11:30 AM	30 min Avg	0.012	0.047	0.057
S	12:00 PM	30 min Avg	0.002	0.037	0.047
ENE	12:30 PM	30 min Avg	0.016	0.021	0.023
ENE	1:00 PM	30 min Avg	0.007	0.012	0.014
ENE	1:30 PM	30 min Avg	0.028	0.033	0.035
E	2:00 PM	30 min Avg	0.009	0.044	0.054
E	2:30 PM	30 min Avg	0.030	0.065	0.075
E	3:00 PM	30 min Avg	0.022	0.057	0.067
E	3:30 PM	30 min Avg	0.013	0.048	0.058
E	4:00 PM	30 min Avg	0.007	0.042	0.052
E	4:30 PM	30 min Avg	0.011	0.046	0.056
E	5:00 PM	30 min Avg	0.008	0.043	0.053
E	5:30 PM	30 min Avg	0.006	0.041	0.051

Notes: E-Bam Unit 2 (upwind) located SE corner of plant; E-Bam Unit 1 (downwind) located NW side of plant-W of Bldg 14, then moved to SW side of plant-South of Bldg 3

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: At 1:30 p.m., all abatement, demo and hazardous waste removal stopped while downwind E-Bam Unit 1 was moved from NW side of plant to the SW side due to changing wind direction. All work resumed at 2:00 p.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.

**Former ASARCO-Encycle Demolition
Particulate Monitoring Summary
Week Ending 10-01-11**

Date: 9/30/11 Technician: Carl Jones

Prevailing Wind

Direction	Time	Unit 2-Upwind Reading	Unit 1-Downwind Reading	Action Level	Stop Work		
NNW	6:00 AM	30 min Avg	0.000	30 min Avg	0.004	0.022	0.028
NNW	6:30 AM	30 min Avg	0.078	30 min Avg	0.064	0.100	0.106
NNW	7:00 AM	30 min Avg	0.009	30 min Avg	0.006	0.031	0.037
NW	7:30 AM	30 min Avg	0.004	30 min Avg	0.013	0.026	0.032
NW	8:00 AM	30 min Avg	0.011	30 min Avg	0.015	0.033	0.039
NW	8:30 AM	30 min Avg	0.001	30 min Avg	0.003	0.023	0.029
NNW	9:00 AM	30 min Avg	0.004	30 min Avg	0.002	0.026	0.032
NNW	9:30 AM	30 min Avg	0.000	30 min Avg	0.013	0.022	0.028
N	10:00 AM	30 min Avg	0.005	30 min Avg	0.003	0.027	0.033
N	10:30 AM	30 min Avg	0.001	30 min Avg	0.000	0.023	0.029
N	11:00 AM	30 min Avg	0.000	30 min Avg	0.012	0.022	0.028
NNE	11:30 AM	30 min Avg	0.005	30 min Avg	0.011	0.027	0.033
NNE	12:00 PM	30 min Avg	0.008	30 min Avg	0.001	0.030	0.036
NNE	12:30 PM	30 min Avg	0.000	30 min Avg	0.000	0.022	0.028
NNE	1:00 PM	30 min Avg	0.005	30 min Avg	0.005	0.027	0.033
NNE	1:30 PM	30 min Avg	0.011	30 min Avg	0.006	0.033	0.039
ENE	2:00 PM	30 min Avg	0.007	30 min Avg	0.019	0.029	0.035
NE	2:30 PM	30 min Avg	0.003	30 min Avg	0.016	0.025	0.031
ENE	3:00 PM	30 min Avg	0.008	30 min Avg	0.012	0.030	0.036
ENE	3:30 PM	30 min Avg	0.016	30 min Avg	0.008	0.038	0.044
ENE	4:00 PM	30 min Avg	0.015	30 min Avg	0.008	0.037	0.043
ENE	4:30 PM	30 min Avg	0.013	30 min Avg	0.004	0.035	0.041
E	5:00 PM	30 min Avg	0.008	30 min Avg	0.015	0.043	0.053
E	5:30 PM	30 min Avg	0.003	30 min Avg	0.010	0.038	0.048

Notes: E-Bam Unit 2 (Upwind) located N side of Plant, east of Bldg 14; Unit 1 (downwind) located S side of Plant, east of Bldg 47.

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: **NONE**

Action Levels for wind with a northerly component (Effective 9/30/11 thru 10/14/11)

Action level = upwind concentration + 0.022 mg/m³

Stop Work Level = upwind concentration + 0.028 mg/m³

Note time/duration of work stoppage: **NONE**

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 9/30/11 thru 10/14/11, only when measured wind direction has northerly component.

