

**Former ASARCO-Encycle Demolition
Particulate Monitoring Summary
Week Ending 12-17-11**

Date: 12/12/2011 Technician: Carl Jones

Prevailing Wind Direction	Time	Unit 2-Upwind Reading	Unit 1-Downwind Reading	Action Level	Stop Work
NNE	6:00 AM	30 min Avg	0	0.035	0.045
NNE	6:30 AM	30 min Avg	0	0.035	0.045
NNE	7:00 AM	30 min Avg	0.017	0.052	0.062
NNE	7:30 AM	30 min Avg	0.017	0.052	0.062
NE	8:00 AM	30 min Avg	0.049	0.084	0.094
NE	8:30 AM	30 min Avg	0	0.035	0.045
NE	9:00 AM	30 min Avg	0	0.035	0.045
NE	9:30 AM	30 min Avg	0.036	0.071	0.081
ENE	10:00 AM	30 min Avg	0.025	0.060	0.070
NE	10:30 AM	30 min Avg	0.013	0.048	0.058
NE	11:00 AM	30 min Avg	0	0.035	0.045
NE	11:30 AM	30 min Avg	0.043	0.078	0.088
E	12:00 PM	30 min Avg	0.128	0.163	0.173
E	12:30 PM	30 min Avg	0.024	0.059	0.069
ESE	1:00 PM	30 min Avg	0.017	0.052	0.062
ESE	1:30 PM	30 min Avg	0.019	0.054	0.064
ESE	2:00 PM	30 min Avg	0.032	0.067	0.077
ESE	2:30 PM	30 min Avg	0.025	0.060	0.070
ESE	3:00 PM	30 min Avg	0.03	0.065	0.075
ESE	3:30 PM	30 min Avg	0.019	0.054	0.064
ESE	4:00 PM	30 min Avg	0.018	0.053	0.063
ESE	4:30 PM	30 min Avg	0.012	0.047	0.057
ESE	5:00 PM	30 min Avg	0.026	0.061	0.071
ESE	5:30 PM	30 min Avg	0.024	0.059	0.069

E-BAM locations (Upwind) NW- west of building 14 (Downwind) SW- south of building 3 [1:35 (Upwind) SW- south of building 3 (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: At 12:30, there was an action level reading. All workers had left for lunch at 12:30 so there was no activity during that time frame. The high readings at 12:00 and 12:30 were due to high humidity after rainy morning.

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 12-17-11**

Date: 12/13/2011 Technician: Carl Jones

Prevailing Wind

Direction	Time	Unit 2-Upwind Reading	Unit 1-Downwind Reading	Action Level	Stop Work		
NE	6:00 AM	30 min Avg	0	30 min Avg	0	0.035	0.045
NE	6:30 AM	30 min Avg	0.102	30 min Avg	0.026	0.137	0.147
NE	7:00 AM	30 min Avg	0.022	30 min Avg	0.017	0.057	0.067
NE	7:30 AM	30 min Avg	0.024	30 min Avg	0.054	0.059	0.069
NE	8:00 AM	30 min Avg	0.072	30 min Avg	0.04	0.107	0.117
N	8:30 AM	30 min Avg	0.028	30 min Avg	0.08	0.063	0.073
N	9:00 AM	30 min Avg	0.076	30 min Avg	0.057	0.111	0.121
ESE	9:30 AM	30 min Avg	0	30 min Avg	0.009	0.035	0.045
SE	10:00 AM	30 min Avg	0.042	30 min Avg	0.039	0.077	0.087
SE	10:30 AM	30 min Avg	0.015	30 min Avg	0.013	0.050	0.060
SE	11:00 AM	30 min Avg	0.003	30 min Avg	0.019	0.038	0.048
SE	11:30 AM	30 min Avg	0.006	30 min Avg	0.011	0.041	0.051
SE	12:00 PM	30 min Avg	0.008	30 min Avg	0.016	0.043	0.053
SE	12:30 PM	30 min Avg	0	30 min Avg	0.008	0.035	0.045
SSE	1:00 PM	30 min Avg	0.007	30 min Avg	0.005	0.042	0.052
SSE	1:30 PM	30 min Avg	0	30 min Avg	0.001	0.035	0.045
SE	2:00 PM	30 min Avg	0.016	30 min Avg	0.018	0.051	0.061
SE	2:30 PM	30 min Avg	0	30 min Avg	0.006	0.035	0.045
SE	3:00 PM	30 min Avg	0.011	30 min Avg	0.015	0.046	0.056
SE	3:30 PM	30 min Avg	0.015	30 min Avg	0.003	0.050	0.060
SE	4:00 PM	30 min Avg	0.016	30 min Avg	0.012	0.051	0.061
SE	4:30 PM	30 min Avg	0.008	30 min Avg	0.013	0.043	0.053
ESE	5:00 PM	30 min Avg	0.02	30 min Avg	0	0.055	0.065
ESE	5:30 PM	30 min Avg	0	30 min Avg	0	0.035	0.045

E-BAM locations (Upwind) NW- west of building 14 (Downwind) SW- south of building 3 [9:35 (Upwind) SW- south of building 3 (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: At 8:30, there was a stop work reading. All work except for dust suppression stopped for 30 minutes until the next reading showed we were in compliance to continue.

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 12-17-11**

Date: 12/14/2011 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	0.035	0.045
SSE	6:30 AM	30 min Avg	0.002	0.037	0.047
SSE	7:00 AM	30 min Avg	0.027	0.062	0.072
SSE	7:30 AM	30 min Avg	0.01	0.045	0.055
SSE	8:00 AM	30 min Avg	0.025	0.060	0.070
SSE	8:30 AM	30 min Avg	0.056	0.091	0.101
SSE	9:00 AM	30 min Avg	0.003	0.038	0.048
SSE	9:30 AM	30 min Avg	0.028	0.063	0.073
SSE	10:00 AM	30 min Avg	0	0.035	0.045
SSE	10:30 AM	30 min Avg	0.013	0.048	0.058
SSE	11:00 AM	30 min Avg	0	0.035	0.045
SSE	11:30 AM	30 min Avg	0.016	0.051	0.061
SSE	12:00 PM	30 min Avg	0	0.035	0.045
SSE	12:30 PM	30 min Avg	0.013	0.048	0.058
SSE	1:00 PM	30 min Avg	0.008	0.043	0.053
SSE	1:30 PM	30 min Avg	0.005	0.040	0.050
SSE	2:00 PM	30 min Avg	0.002	0.037	0.047
SSE	2:30 PM	30 min Avg	0.016	0.051	0.061
SSE	3:00 PM	30 min Avg	0.001	0.036	0.046
SSE	3:30 PM	30 min Avg	0.017	0.052	0.062
SSE	4:00 PM	30 min Avg	0.013	0.048	0.058
SSE	4:30 PM	30 min Avg	0.008	0.043	0.053
SSE	5:00 PM	30 min Avg	0.019	0.054	0.064
SSE	5:30 PM	30 min Avg	0.04	0.075	0.085

E-BAM locations (Upwind) S- east of building 46 (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:

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 12-17-11**

Date: 12/15/2011 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	0.035	0.045
SE	6:30 AM	30 min Avg	0	30 min Avg	0.015	0.035	0.045
SE	7:00 AM	30 min Avg	0.006	30 min Avg	0.017	0.041	0.051
SE	7:30 AM	30 min Avg	0.003	30 min Avg	0.01	0.038	0.048
SE	8:00 AM	30 min Avg	0.019	30 min Avg	0.018	0.054	0.064
SE	8:30 AM	30 min Avg	0.046	30 min Avg	0.029	0.081	0.091
SE	9:00 AM	30 min Avg	0	30 min Avg	0	0.035	0.045
SE	9:30 AM	30 min Avg	0.038	30 min Avg	0.027	0.073	0.083
SE	10:00 AM	30 min Avg	0.044	30 min Avg	0.033	0.079	0.089
SE	10:30 AM	30 min Avg	0	30 min Avg	0.019	0.035	0.045
SE	11:00 AM	30 min Avg	0	30 min Avg	0.008	0.035	0.045
SE	11:30 AM	30 min Avg	0.022	30 min Avg	0.014	0.057	0.067
SE	12:00 PM	30 min Avg	0.005	30 min Avg	0.013	0.040	0.050
SE	12:30 PM	30 min Avg	0	30 min Avg	0.007	0.035	0.045
SE	1:00 PM	30 min Avg	0.036	30 min Avg	0.018	0.071	0.081
SE	1:30 PM	30 min Avg	0.015	30 min Avg	0	0.050	0.060
SE	2:00 PM	30 min Avg	0	30 min Avg	0.02	0.035	0.045
SE	2:30 PM	30 min Avg	0.019	30 min Avg	0.009	0.054	0.064
SE	3:00 PM	30 min Avg	0	30 min Avg	0	0.035	0.045
SE	3:30 PM	30 min Avg	0.052	30 min Avg	0.052	0.087	0.097
SE	4:00 PM	30 min Avg	0	30 min Avg	0	0.035	0.045
SE	4:30 PM	30 min Avg	0	30 min Avg	0.016	0.035	0.045
SE	5:00 PM	30 min Avg	0.004	30 min Avg	0	0.039	0.049
SE	5:30 PM	30 min Avg	0	30 min Avg	0.008	0.035	0.045
SE	6:00 PM	30 min Avg	0.001	30 min Avg	0.004	0.036	0.046

E-BAM locations (Upwind) S- east of building 46 (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: All work ended at 5:40.

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 12-17-11**

Date: 12/16/2011 Technician: Carl Jones

Prevailing Wind

Direction	Time	Unit 2-Upwind Reading	Unit 1-Downwind Reading	Action Level	Stop Work		
N	6:00 AM	30 min Avg	0	30 min Avg	0	0.035	0.045
N	6:30 AM	30 min Avg	0.005	30 min Avg	0.004	0.040	0.050
N	7:00 AM	30 min Avg	0.003	30 min Avg	0.02	0.038	0.048
N	7:30 AM	30 min Avg	0.001	30 min Avg	0	0.036	0.046
N	8:00 AM	30 min Avg	0.002	30 min Avg	0.004	0.037	0.047
N	8:30 AM	30 min Avg	0.008	30 min Avg	0.028	0.043	0.053
N	9:00 AM	30 min Avg	0.01	30 min Avg	0	0.045	0.055
N	9:30 AM	30 min Avg	0.001	30 min Avg	0.006	0.036	0.046
N	10:00 AM	30 min Avg	0.024	30 min Avg	0.015	0.059	0.069
N	10:30 AM	30 min Avg	0	30 min Avg	0.004	0.035	0.045
N	11:00 AM	30 min Avg	0.005	30 min Avg	0.012	0.040	0.050
N	11:30 AM	30 min Avg	0.015	30 min Avg	0	0.050	0.060
N	12:00 PM	30 min Avg	0	30 min Avg	0.029	0.035	0.045
N	12:30 PM	30 min Avg	0.011	30 min Avg	0.015	0.046	0.056
N	1:00 PM	30 min Avg	0.013	30 min Avg	0.019	0.048	0.058
N	1:30 PM	30 min Avg	0	30 min Avg	0	0.035	0.045
N	2:00 PM	30 min Avg	0.016	30 min Avg	0.025	0.051	0.061
N	2:30 PM	30 min Avg	0	30 min Avg	0.006	0.035	0.045
N	3:00 PM	30 min Avg	0.016	30 min Avg	0.033	0.051	0.061
N	3:30 PM	30 min Avg	0.003	30 min Avg	0.012	0.038	0.048
N	4:00 PM	30 min Avg	0	30 min Avg	0	0.035	0.045
N	4:30 PM	30 min Avg	0.028	30 min Avg	0.006	0.063	0.073
N	5:00 PM	30 min Avg	0.003	30 min Avg	0.045	0.038	0.048
N	5:30 PM	30 min Avg	0.006	30 min Avg	0	0.041	0.051

E-BAM locations (Upwind) NW-west of building 14 (Downwind) S- east of building 46

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: At 5:00, an action level was recorded. All work stopped at 5:00 for the remainder of the day except for dust suppression which continued until 5:15 wetting down work areas.

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 12-17-11**

Date: 12/17/2011 Technician: Carl Jones

Prevailing Wind

Direction	Time	Unit 2-Upwind Reading	Unit 1-Downwind Reading	Action Level	Stop Work		
NNE	6:00 AM	30 min Avg	0	30 min Avg	0	0.035	0.045
NNE	6:30 AM	30 min Avg	0.01	30 min Avg	0.023	0.045	0.055
NNE	7:00 AM	30 min Avg	0.014	30 min Avg	0.049	0.049	0.059
NNE	7:30 AM	30 min Avg	0.028	30 min Avg	0	0.063	0.073
NNE	8:00 AM	30 min Avg	0.016	30 min Avg	0.024	0.051	0.061
NNE	8:30 AM	30 min Avg	0.011	30 min Avg	0.006	0.046	0.056
NNE	9:00 AM	30 min Avg	0.032	30 min Avg	0.015	0.067	0.077
NNE	9:30 AM	30 min Avg	0	30 min Avg	0.028	0.035	0.045
NNE	10:00 AM	30 min Avg	0	30 min Avg	0	0.035	0.045
NNE	10:30 AM	30 min Avg	0	30 min Avg	0.009	0.035	0.045
N	11:00 AM	30 min Avg	0.009	30 min Avg	0	0.044	0.054
N	11:30 AM	30 min Avg	0.02	30 min Avg	0.041	0.055	0.065
N	12:00 PM	30 min Avg	0.062	30 min Avg	0.04	0.097	0.107
N	12:30 PM	30 min Avg	0.003	30 min Avg	0	0.038	0.048
NNW	1:00 PM	30 min Avg	0.004	30 min Avg	0.012	0.039	0.049
NNW	1:30 PM	30 min Avg	0.001	30 min Avg	0.02	0.036	0.046
NNW	2:00 PM	30 min Avg	0.019	30 min Avg	0	0.054	0.064
NNW	2:30 PM	30 min Avg	0.009	30 min Avg	0.024	0.044	0.054
NW	3:00 PM	30 min Avg	0.003	30 min Avg	0.007	0.038	0.048
NW	3:30 PM	30 min Avg	0	30 min Avg	0	0.035	0.045
WNW	4:00 PM	30 min Avg	0.013	30 min Avg	0.028	0.048	0.058
WNW	4:30 PM	30 min Avg	0.012	30 min Avg	0.033	0.047	0.057
WNW	5:00 PM	30 min Avg	0.011	30 min Avg	0.007	0.046	0.056
WNW	5:30 PM	30 min Avg		30 min Avg		0.035	0.045

E-BAM locations (Upwind) NW- west of building 14 (Downwind) S- east of building 46

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: All work ended at 4:30 for the weekend.

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.