

**Former ASARCO-Encycle Demolition
Particulate Monitoring Summary
Week Ending 09-17-11**

Date: 9/12/2011 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	-0.005	30 min Avg	-0.005	0.040	0.050
S	6:30 AM	30 min Avg	0.096	30 min Avg	0.089	0.131	0.141
S	7:00 AM	30 min Avg	-0.001	30 min Avg	0.014	0.036	0.046
S	7:30 AM	30 min Avg	0.018	30 min Avg	0.016	0.053	0.063
S	8:00 AM	30 min Avg	0.008	30 min Avg	0.007	0.043	0.053
S	8:30 AM	30 min Avg	0.021	30 min Avg	0.008	0.056	0.066
S	9:00 AM	30 min Avg	0.023	30 min Avg	0.016	0.058	0.068
S	9:30 AM	30 min Avg	-0.005	30 min Avg	0.013	0.040	0.050
SE	10:00 AM	30 min Avg	-0.005	30 min Avg	0.010	0.040	0.050
SE	10:30 AM	30 min Avg	0.013	30 min Avg	-0.005	0.048	0.058
SE	11:00 AM	30 min Avg	-0.005	30 min Avg	0.010	0.040	0.050
SSE	11:30 AM	30 min Avg	0.001	30 min Avg	-0.005	0.036	0.046
ESE	12:00 PM	30 min Avg	0.003	30 min Avg	-0.001	0.038	0.048
ENE	12:30 PM	30 min Avg	0.009	30 min Avg	0.006	0.032	0.038
ENE	1:00 PM	30 min Avg	0.019	30 min Avg	0.006	0.042	0.048
ESE	1:30 PM	30 min Avg	0.009	30 min Avg	0.008	0.044	0.054
ESE	2:00 PM	30 min Avg	0.006	30 min Avg	0.001	0.041	0.051
ESE	2:30 PM	30 min Avg	0.007	30 min Avg	0.010	0.042	0.052
ESE	3:00 PM	30 min Avg	0.001	30 min Avg	0.004	0.036	0.046
ESE	3:30 PM	30 min Avg	0.004	30 min Avg	0.004	0.039	0.049
ESE	4:00 PM	30 min Avg	0.015	30 min Avg	0.008	0.050	0.060
ESE	4:30 PM	30 min Avg	0.012	30 min Avg	0.006	0.047	0.057
ESE	5:00 PM	30 min Avg	0.001	30 min Avg	0.009	0.036	0.046
ESE	5:30 PM	30 min Avg	0.002	30 min Avg	0.005	0.037	0.047

Notes:

All readings in mg/m³

Action Levels for wind without a northerly component (Implement Sept. 2 thru Sept. 16):

Action level = upwind concentration + 0.035 mg/m³

Note time/duration of work stoppage:

Note time/duration of work stoppage: NONE

Action Levels for wind with a northerly component (Implement Sept. 2 thru Sept. 16):

Action level = upwind concentration + 0.023 mg/m³

Stop Work Level = upwind concentration + 0.029 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 effect on 9-2-11 while wind has northerly component only

**Former ASARCO-Encycle Demolition
Particulate Monitoring Summary
Week Ending 09-17-11**

Date: 09/13/11 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	-0.005	30 min Avg	-0.005	0.040	0.050
S	6:30 AM	30 min Avg	0.000	30 min Avg	0.020	0.035	0.045
S	7:00 AM	30 min Avg	0.027	30 min Avg	0.035	0.062	0.072
S	7:30 AM	30 min Avg	0.009	30 min Avg	0.005	0.044	0.054
S	8:00 AM	30 min Avg	0.001	30 min Avg	0.027	0.036	0.046
S	8:30 AM	30 min Avg	0.031	30 min Avg	0.006	0.066	0.076
S	9:00 AM	30 min Avg	0.033	30 min Avg	0.008	0.068	0.078
S	9:30 AM	30 min Avg	-0.005	30 min Avg	0.007	0.040	0.050
S	10:00 AM	30 min Avg	-0.005	30 min Avg	0.007	0.040	0.050
S	10:30 AM	30 min Avg	-0.002	30 min Avg	-0.005	0.037	0.047
S	11:00 AM	30 min Avg	-0.005	30 min Avg	0.002	0.040	0.050
S	11:30 AM	30 min Avg	0.007	30 min Avg	-0.001	0.042	0.052
S	12:00 PM	30 min Avg	0.005	30 min Avg	-0.003	0.040	0.050
SE	12:30 PM	30 min Avg	0.013	30 min Avg	-0.005	0.048	0.058
SSE	1:00 PM	30 min Avg	0.011	30 min Avg	0.005	0.046	0.056
SE	1:30 PM	30 min Avg	0.011	30 min Avg	0.002	0.046	0.056
SE	2:00 PM	30 min Avg	0.007	30 min Avg	0.009	0.042	0.052
ESE	2:30 PM	30 min Avg	0.005	30 min Avg	0.003	0.040	0.050
SE	3:00 PM	30 min Avg	0.010	30 min Avg	0.009	0.045	0.055
SE	3:30 PM	30 min Avg	0.010	30 min Avg	0.008	0.045	0.055
SE	4:00 PM	30 min Avg	-0.002	30 min Avg	0.001	0.037	0.047
SE	4:30 PM	30 min Avg	0.010	30 min Avg	0.013	0.045	0.055
SE	5:00 PM	30 min Avg	0.012	30 min Avg	0.003	0.047	0.057
SE	5:30 PM	30 min Avg	0.010	30 min Avg	0.009	0.045	0.055

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. 2 thru Sept. 13):

Action level = upwind concentration + 0.023 mg/m³

Stop Work Level = upwind concentration + 0.029 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 effect on 9-2-11 thru 9-13-11 while wind has northerly component only

**Former ASARCO-Encycle Demolition
Particulate Monitoring Summary
Week Ending 9-17-11**

Date: 09/14/11 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	0.000	0.035	0.045
SSE	6:30 AM	30 min Avg	0.000	30 min Avg	0.035	0.035	0.045
SSE	7:00 AM	30 min Avg	0.070	30 min Avg	0.050	0.105	0.115
S	7:30 AM	30 min Avg	0.020	30 min Avg	0.022	0.055	0.065
SE	8:00 AM	30 min Avg	0.036	30 min Avg	0.005	0.071	0.081
SSE	8:30 AM	30 min Avg	0.001	30 min Avg	0.001	0.036	0.046
SSE	9:00 AM	30 min Avg	0.000	30 min Avg	0.011	0.035	0.045
SE	9:30 AM	30 min Avg	0.000	30 min Avg	0.001	0.035	0.045
SSE	10:00 AM	30 min Avg	0.000	30 min Avg	0.000	0.035	0.045
SSE	10:30 AM	30 min Avg	0.000	30 min Avg	0.000	0.035	0.045
SSE	11:00 AM	30 min Avg	0.000	30 min Avg	0.000	0.035	0.045
SSE	11:30 AM	30 min Avg	0.009	30 min Avg	0.009	0.044	0.054
SE	12:00 PM	30 min Avg	0.000	30 min Avg	0.002	0.035	0.045
SE	12:30 PM	30 min Avg	0.000	30 min Avg	0.000	0.035	0.045
SE	1:00 PM	30 min Avg	0.014	30 min Avg	0.003	0.049	0.059
ESE	1:30 PM	30 min Avg	0.001	30 min Avg	0.009	0.036	0.046
ESE	2:00 PM	30 min Avg	0.017	30 min Avg	0.002	0.052	0.062
ESE	2:30 PM	30 min Avg	0.002	30 min Avg	0.005	0.037	0.047
ESE	3:00 PM	30 min Avg	0.011	30 min Avg	0.019	0.046	0.056
ESE	3:30 PM	30 min Avg	0.018	30 min Avg	0.006	0.053	0.063
ESE	4:00 PM	30 min Avg	0.010	30 min Avg	0.011	0.045	0.055
ESE	4:30 PM	30 min Avg	0.012	30 min Avg	0.015	0.047	0.057
ESE	5:00 PM	30 min Avg	0.006	30 min Avg	0.001	0.041	0.051
ESE	5:30 PM	30 min Avg	0.011	30 min Avg	0.011	0.046	0.056

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 effect on 9-14-11 to 9-28-11 while wind has northerly component only

**Former ASARCO-Encycle Demolition
Particulate Monitoring Summary
Week Ending 09-17-11**

Date: 9/15/11 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	0.000	30 min Avg	0.041	0.035	0.045
SE	6:30 AM	30 min Avg	0.069	30 min Avg	0.032	0.104	0.114
SE	7:00 AM	30 min Avg	0.015	30 min Avg	0.009	0.050	0.060
SE	7:30 AM	30 min Avg	0.011	30 min Avg	0.015	0.046	0.056
SE	8:00 AM	30 min Avg	0.012	30 min Avg	0.012	0.047	0.057
SE	8:30 AM	30 min Avg	0.010	30 min Avg	0.018	0.045	0.055
SSE	9:00 AM	30 min Avg	0.009	30 min Avg	0.018	0.044	0.054
SSE	9:30 AM	30 min Avg	0.002	30 min Avg	0.009	0.037	0.047
SSE	10:00 AM	30 min Avg	0.009	30 min Avg	0.002	0.044	0.054
SSE	10:30 AM	30 min Avg	0.009	30 min Avg	0.004	0.044	0.054
SE	11:00 AM	30 min Avg	0.006	30 min Avg	0.000	0.041	0.051
ESE	11:30 AM	30 min Avg	0.020	30 min Avg	0.019	0.055	0.065
ESE	12:00 PM	30 min Avg	0.006	30 min Avg	0.004	0.041	0.051
ESE	12:30 PM	30 min Avg	0.026	30 min Avg	0.000	0.061	0.071
ESE	1:00 PM	30 min Avg	0.013	30 min Avg	0.020	0.048	0.058
ESE	1:30 PM	30 min Avg	0.014	30 min Avg	0.007	0.049	0.059
ESE	2:00 PM	30 min Avg	0.010	30 min Avg	0.007	0.045	0.055
ESE	2:30 PM	30 min Avg	0.016	30 min Avg	0.009	0.051	0.061
ESE	3:00 PM	30 min Avg	0.015	30 min Avg	0.006	0.050	0.060
ESE	3:30 PM	30 min Avg	0.003	30 min Avg	0.008	0.038	0.048
ESE	4:00 PM	30 min Avg	0.016	30 min Avg	0.007	0.051	0.061
ESE	4:30 PM	30 min Avg	0.004	30 min Avg	0.010	0.039	0.049
ESE	5:00 PM	30 min Avg	0.012	30 min Avg	0.011	0.047	0.057
ESE	5:30 PM	30 min Avg	0.007	30 min Avg	0.012	0.042	0.052

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

***The downwind E-Bam unit was located on the northwest side of the plant, west of Building 14.**

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 effect on 9-14-11 while wind has northerly component only

**Former ASARCO-Encycle Demolition
Particulate Monitoring Summary
Week Ending 09-17-11**

Date: 9/16/11 Technician: Carl Jones

Prevailing Wind

Direction	Time	Unit 2-Upwind Reading	Unit 1-Downwind Reading	Action Level	Stop Work		
ESE	6:00 AM	30 min Avg	0.000	30 min Avg	0.000	0.035	0.045
ESE	6:30 AM	30 min Avg	0.089	30 min Avg	0.076	0.124	0.134
ESE	7:00 AM	30 min Avg	0.025	30 min Avg	0.023	0.060	0.070
ESE	7:30 AM	30 min Avg	0.026	30 min Avg	0.020	0.061	0.071
SE	8:00 AM	30 min Avg	0.000	30 min Avg	0.005	0.035	0.045
SE/Rain	8:30 AM	30 min Avg	0.084	30 min Avg	0.029	0.119	0.129
SE	9:00 AM	30 min Avg	0.014	30 min Avg	0.008	0.049	0.059
ESE	9:30 AM	30 min Avg	0.009	30 min Avg	0.015	0.044	0.054
ESE	10:00 AM	30 min Avg	0.000	30 min Avg	0.008	0.035	0.045
S	10:30 AM	30 min Avg	0.020	30 min Avg	0.005	0.055	0.065
SSE	11:00 AM	30 min Avg	0.000	30 min Avg	-0.005	0.035	0.045
SW/Rain	11:30 AM	30 min Avg	0.022	30 min Avg	0.020	0.057	0.067
N	12:00 PM	30 min Avg	0.047	30 min Avg	0.025	0.052	0.054
NNE	12:30 PM	30 min Avg	0.000	30 min Avg	0.034	0.005	0.007
NNE	1:00 PM	30 min Avg	0.000	30 min Avg	0.005	0.005	0.007
ENE	1:30 PM	30 min Avg	0.006	30 min Avg	0.000	0.011	0.013
E	2:00 PM	30 min Avg	0.010	30 min Avg	0.002	0.045	0.055
E	2:30 PM	30 min Avg	0.011	30 min Avg	0.012	0.046	0.056
ENE	3:00 PM	30 min Avg	0.001	30 min Avg	0.012	0.006	0.008

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: 12:38 PM-particulate concentration readings reached site "Stop Work" level. All workers were returning from lunch at that time. The particulate concentration reading collected at 1:00 PM reached site "Action" level. Site work did not commence again until after the 1:38 PM reading, when particulate concentrations were below Action and Stop Work levels. At 2:45 pm all work at site shut down due to high winds with a Northerly component.

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 effect on 9-14-11 while wind has northerly component only

**Former ASARCO-Encycle Demolition
 Particulate Monitoring Summary
 Week Ending 09-17-11**

Date: 9/17/11 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	0.076	30 min Avg	0.111	0.121
SSE	7:00 AM	30 min Avg	0.042	30 min Avg	0.077	0.087
SE	7:30 AM	30 min Avg	0.021	30 min Avg	0.056	0.066
SE	8:00 AM	30 min Avg	0.000	30 min Avg	0.035	0.045
SE	8:30 AM	30 min Avg	0.005	30 min Avg	0.040	0.050
SE	9:00 AM	30 min Avg	0.015	30 min Avg	0.050	0.060
SE	9:30 AM	30 min Avg	0.024	30 min Avg	0.059	0.069
SE	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
SSE	11:00 AM	30 min Avg	0.014	30 min Avg	0.049	0.059
SE	11:30 AM	30 min Avg	0.000	30 min Avg	0.035	0.045
S	12:00 PM	30 min Avg	0.014	30 min Avg	0.049	0.059

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: All work stopped at 12:10 PM due to rain and lightning in the area. The 12:30 PM reading could not be collected due to rain and lightning.

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 lower Action & Stop Work levels in effect on 9-14-11 while wind has northerly component only