

**Former ASARCO-Encycle Demolition
Particulate Monitoring Summary
Week Ending 02-19-12**

Date: 2/13/2012 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	0.035	0.045
S	6:30 AM	30 min Avg	0	0.035	0.045
S	7:00 AM	30 min Avg	0.002	0.037	0.047
S	7:30 AM	30 min Avg	0.006	0.041	0.051
S	8:00 AM	30 min Avg	0.003	0.038	0.048
S	8:30 AM	30 min Avg	0.004	0.039	0.049
WSW	9:00 AM	30 min Avg	0.001	0.036	0.046
WSW	9:30 AM	30 min Avg	0.005	0.040	0.050
WNW	10:00 AM	30 min Avg	0.006	0.037	0.045
WNW	10:30 AM	30 min Avg	0	0.031	0.039
NW	11:00 AM	30 min Avg	0	0.031	0.039
NW	11:30 AM	30 min Avg	0.012	0.043	0.051
NW	12:00 PM	30 min Avg	0	0.031	0.039
NW	12:30 PM	30 min Avg	0	0.031	0.039
WNW	1:00 PM	30 min Avg	0.01	0.041	0.049
WNW	1:30 PM	30 min Avg	0	0.031	0.039
WNW	2:00 PM	30 min Avg	0.006	0.037	0.045
WNW	2:30 PM	30 min Avg	0.026	0.057	0.065
WNW	3:00 PM	30 min Avg	0	0.031	0.039
WNW	3:30 PM	30 min Avg	0.016	0.047	0.055
WNW	4:00 PM	30 min Avg	0.015	0.046	0.054
WNW	4:30 PM	30 min Avg	0.005	0.036	0.044
WNW	5:00 PM	30 min Avg	0	0.031	0.039
WNW	5:30 PM	30 min Avg	0.01	0.041	0.049
	6:00 PM	30 min Avg			

E-BAM locations (Upwind) SW- south of building 3 (Downwind) NW- west of building 14 [12:05(Upwind) NW- west of building 14 (Downwind) SW- south of building 3]

Action Levels

Action level = upwind concentration + 0.035 mg/m3

Stop Work Level = upwind concentration + 0.045 mg/m3

With a northerly component:

Action level+ upwind concentration + 0.031 mg/m3

Stop Work Level = upwind concentration + 0.039 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 02-19-12**

Date: 2/14/2012 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	0.031	0.039
N	6:30 AM	30 min Avg	0.009	30 min Avg	0.011	0.040	0.048
ENE	7:00 AM	30 min Avg	0.017	30 min Avg	0.018	0.048	0.056
E	7:30 AM	30 min Avg	0.012	30 min Avg	0.008	0.047	0.057
ENE	8:00 AM	30 min Avg	0.017	30 min Avg	0.016	0.048	0.056
NE	8:30 AM	30 min Avg	0.014	30 min Avg	0.02	0.045	0.053
ENE	9:00 AM	30 min Avg	0.005	30 min Avg	0.003	0.036	0.044
ENE	9:30 AM	30 min Avg	0.006	30 min Avg	0.012	0.037	0.045
ENE	10:00 AM	30 min Avg	0.005	30 min Avg	0.01	0.036	0.044
E	10:30 AM	30 min Avg	0.006	30 min Avg	0	0.041	0.051
ENE	11:00 AM	30 min Avg	0.051	30 min Avg	0.053	0.082	0.090
E	11:30 AM	30 min Avg	0.008	30 min Avg	0	0.043	0.053
E	12:00 PM	30 min Avg	0.006	30 min Avg	0.026	0.041	0.051
ESE	12:30 PM	30 min Avg	0.024	30 min Avg	0	0.059	0.069
ESE	1:00 PM	30 min Avg	0.009	30 min Avg	0.047	0.044	0.054
ESE	1:30 PM	30 min Avg	0	30 min Avg	0	0.035	0.045
E	2:00 PM	30 min Avg	0	30 min Avg	0	0.035	0.045
E	2:30 PM	30 min Avg	0.014	30 min Avg	0.007	0.049	0.059
E	3:00 PM	30 min Avg	0	30 min Avg	0.01	0.035	0.045
E	3:30 PM	30 min Avg	0	30 min Avg	0.013	0.035	0.045
E	4:00 PM	30 min Avg	0.02	30 min Avg	0.004	0.055	0.065
E	4:30 PM	30 min Avg	0.002	30 min Avg	0.008	0.037	0.047
ESE	5:00 PM	30 min Avg	0.002	30 min Avg	0.006	0.037	0.047
ESE	5:30 PM	30 min Avg	0.016	30 min Avg	0.005	0.051	0.061

E-BAM locations (Upwind) NW- west of building 14 (Upwind) SW- south of building 3 [12:05 (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

With a northerly component:

Action level+ upwind concentration + 0.031 mg/m³
 Stop Work Level = upwind concentration + 0.039 mg/m³

Note time/duration of work stoppage: The 1:00 reading reached an action level. Additional dust suppression was added to roadways and 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 02-19-12**

Date: 2/15/2012 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	0.035	0.045
SSE	6:30 AM	30 min Avg	0.022	0.057	0.067
SSE	7:00 AM	30 min Avg	0.009	0.044	0.054
SSE	7:30 AM	30 min Avg	0.013	0.048	0.058
S	8:00 AM	30 min Avg	0.014	0.049	0.059
S	8:30 AM	30 min Avg	0.007	0.042	0.052
S	9:00 AM	30 min Avg	0.015	0.050	0.060
S	9:30 AM	30 min Avg	0	0.035	0.045
S	10:00 AM	30 min Avg	0.013	0.048	0.058
S	10:30 AM	30 min Avg	0.03	0.065	0.075
S	11:00 AM	30 min Avg	0.014	0.049	0.059
S	11:30 AM	30 min Avg	0.048	0.083	0.093
SSW	12:00 PM	30 min Avg	0.019	0.054	0.064
SSW	12:30 PM	30 min Avg	0.023	0.058	0.068
SSW	1:00 PM	30 min Avg	0.017	0.052	0.062
NE	1:30 PM	30 min Avg	0.036	0.067	0.075
NE	2:00 PM	30 min Avg	0.021	0.052	0.060
NNE	2:30 PM	30 min Avg	0.033	0.064	0.072
N	3:00 PM	30 min Avg	0.018	0.049	0.057
N	3:30 PM	30 min Avg	0.043	0.074	0.082
NNW	4:00 PM	30 min Avg	0.024	0.055	0.063
NNW	4:30 PM	30 min Avg	0.036	0.067	0.075
N	5:00 PM	30 min Avg	0.015	0.046	0.054
N	5:30 PM	30 min Avg	0.019	0.050	0.058
	6:00PM	30 min Avg			

E-BAM locations (Upwind) SW- south of building 3 (Downwind) NW- west of building 14
[2:40 (Upwind) NW- west of building 14 (Downwind) SW- south of building 3]

Action Levels

Action level = upwind concentration + 0.035 mg/m3

Stop Work Level = upwind concentration + 0.045 mg/m3

With a northerly component:

Action level+ upwind concentration + 0.031 mg/m3

Stop Work Level = upwind concentration + 0.039 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 considered accurate.

**Former ASARCO-Encycle Demolition
Particulate Monitoring Summary
Week Ending 02-19-12**

Date: 2/16/2012 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	0.031	0.039
NE	6:30 AM	30 min Avg	0.016	30 min Avg	0.024	0.047	0.055
E	7:00 AM	30 min Avg	0.01	30 min Avg	0.008	0.045	0.055
E	7:30 AM	30 min Avg	0.01	30 min Avg	0.027	0.045	0.055
N	8:00 AM	30 min Avg	0.01	30 min Avg	0.014	0.041	0.049
N	8:30 AM	30 min Avg	0.008	30 min Avg	0.004	0.039	0.047
N	9:00 AM	30 min Avg	0.006	30 min Avg	0.002	0.037	0.045
NNE	9:30 AM	30 min Avg	0.013	30 min Avg	0.011	0.044	0.052
NE	10:00 AM	30 min Avg	0.003	30 min Avg	0.004	0.034	0.042
NE	10:30 AM	30 min Avg	0.006	30 min Avg	0.01	0.037	0.045
NE	11:00 AM	30 min Avg	0.008	30 min Avg	0.011	0.039	0.047
NE	11:30 AM	30 min Avg	0.012	30 min Avg	0.011	0.043	0.051
NE	12:00 PM	30 min Avg	0.027	30 min Avg	0.009	0.058	0.066
NE	12:30 PM	30 min Avg	0.071	30 min Avg	0.001	0.102	0.110
ENE	1:00 PM	30 min Avg	0	30 min Avg	0.016	0.031	0.039
ENE	1:30 PM	30 min Avg	0.04	30 min Avg	0.043	0.071	0.079
ENE	2:00 PM	30 min Avg	0.006	30 min Avg	0.008	0.037	0.045
ENE	2:30 PM	30 min Avg	0.009	30 min Avg	0.022	0.040	0.048
ENE	3:00 PM	30 min Avg	0.013	30 min Avg	0.002	0.044	0.052
ENE	3:30 PM	30 min Avg	0.013	30 min Avg	0	0.044	0.052
ENE	4:00 PM	30 min Avg	0.003	30 min Avg	0.001	0.034	0.042
	4:30 PM	30 min Avg		30 min Avg			
	5:00 PM	30 min Avg		30 min Avg			
	5:30 PM	30 min Avg		30 min Avg			
	6:00 PM	30 min Avg		30 min Avg			

E-BAM locations (Upwind) NW- west of building 14 (Upwind) SW- south of building 3

Action Levels

Action level = upwind concentration + 0.035 mg/m3

Stop Work Level = upwind concentration + 0.045 mg/m3

With a northerly component:

Action level+ upwind concentration + 0.031 mg/m3

Stop Work Level = upwind concentration + 0.039 mg/m3

Note time/duration of work stoppage: At 3:30, all work ended due to high northerly winds.

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 02-19-12**

Date: 2/17/2012 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	0.031	0.039
NE	6:30 AM	30 min Avg	0.021	30 min Avg	0.028	0.052	0.060
NE	7:00 AM	30 min Avg	0.017	30 min Avg	0.012	0.048	0.056
NE	7:30 AM	30 min Avg	0.01	30 min Avg	0.01	0.041	0.049
NE	8:00 AM	30 min Avg	0.015	30 min Avg	0.025	0.046	0.054
ENE	8:30 AM	30 min Avg	0.01	30 min Avg	0.008	0.041	0.049
ENE	9:00 AM	30 min Avg	0.009	30 min Avg	0.01	0.040	0.048
ENE	9:30 AM	30 min Avg	0.023	30 min Avg	0.011	0.054	0.062
ENE	10:00 AM	30 min Avg	0.01	30 min Avg	0.008	0.041	0.049
ENE	10:30 AM	30 min Avg	0.012	30 min Avg	0.011	0.043	0.051
ENE	11:00 AM	30 min Avg	0.011	30 min Avg	0.013	0.042	0.050
ENE	11:30 AM	30 min Avg	0	30 min Avg	0.013	0.031	0.039
ENE	12:00 PM	30 min Avg	0.015	30 min Avg	0.014	0.046	0.054
ENE	12:30 PM	30 min Avg	0.01	30 min Avg	0.019	0.041	0.049
NE	1:00 PM	30 min Avg	0.015	30 min Avg	0.017	0.046	0.054
NE	1:30 PM	30 min Avg	0.012	30 min Avg	0.016	0.043	0.051
NE	2:00 PM	30 min Avg	0.007	30 min Avg	0.004	0.038	0.046
NE	2:30 PM	30 min Avg	0.016	30 min Avg	0.025	0.047	0.055
	3:00 PM	30 min Avg		30 min Avg			
	3:30 PM	30 min Avg		30 min Avg			
	4:00 PM	30 min Avg		30 min Avg			
	4:30 PM	30 min Avg		30 min Avg			
	5:00 PM	30 min Avg		30 min Avg			
	5:30 PM	30 min Avg		30 min Avg			

E-BAM locations (Upwind) NW- west of building 14 (Downwind) SW- south of building 3

Action Levels

Action level = upwind concentration + 0.035 mg/m³

Stop Work Level = upwind concentration + 0.045 mg/m³

With a northerly component:

Action level+ upwind concentration + 0.031 mg/m³

Stop Work Level = upwind concentration + 0.039 mg/m³

Note time/duration of work stoppage: All work ended at 2:10 ahead of approaching thunderstorms.

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 02-19-12**

Date: 2/18/2012 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/m³

Stop Work Level = upwind concentration + 0.045 mg/m³

With a northerly component:

Action level+ upwind concentration + 0.031 mg/m³

Stop Work Level = upwind concentration + 0.039 mg/m³

Note time/duration of work stoppage: No work was started due to the forecast of high northerly winds.

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 02-19-12**

Date: 2/19/2012 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	0.031	0.039
N	6:30 AM	30 min Avg	0.015	0.046	0.054
WNW	7:00 AM	30 min Avg	0	0.031	0.039
WNW	7:30 AM	30 min Avg	0.005	0.036	0.044
WNW	8:00 AM	30 min Avg	0.02	0.051	0.059
WNW	8:30 AM	30 min Avg	0	0.031	0.039
N	9:00 AM	30 min Avg	0.046	0.077	0.085
N	9:30 AM	30 min Avg	0	0.031	0.039
NE	10:00 AM	30 min Avg	0	0.031	0.039
NE	10:30 AM	30 min Avg	0.002	0.033	0.041
NNE	11:00 AM	30 min Avg	0	0.031	0.039
NNE	11:30 AM	30 min Avg	0.008	0.039	0.047
N	12:00 PM	30 min Avg	0	0.031	0.039
N	12:30 PM	30 min Avg	0.005	0.036	0.044
N	1:00 PM	30 min Avg	0.031	0.062	0.070
N	1:30 PM	30 min Avg	0.007	0.038	0.046
NNE	2:00 PM	30 min Avg	0.006	0.037	0.045
NNE	2:30 PM	30 min Avg	0.008	0.039	0.047
ENE	3:00 PM	30 min Avg	0.005	0.036	0.044
ENE	3:30 PM	30 min Avg	0.012	0.043	0.051
ENE	4:00 PM	30 min Avg	0.009	0.040	0.048
E	4:30 PM	30 min Avg	0.01	0.045	0.055
	5:00 PM	30 min Avg			
	5:30 PM	30 min Avg			
	6:00PM	30 min Avg			

E-BAM locations (Upwind) NW- west of building 14 (Downwind) SW- south of building 3

Action Levels

Action level = upwind concentration + 0.035 mg/m³

Stop Work Level = upwind concentration + 0.045 mg/m³

With a northerly component:

Action level+ upwind concentration + 0.031 mg/m³

Stop Work Level = upwind concentration + 0.039 mg/m³

Note time/duration of work stoppage: The 8:30 reading reached an action level. Additional dust suppression was added to roadways and work areas.

All work ended at 4:10.

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 considered accurate.