

**Former ASARCO-Encycle Demolition
Particulate Monitoring Summary
Week Ending 5-14-11**

Date: 5/9/2011 Technician: Carl Jones

Prevailing Wind

Direction	Time	Unit 2-Upwind Reading	Unit 1-Downwind Reading	Action Level	Stop Work		
SE	6:30 AM	30 min Avg	-0.005	30 min Avg	-0.005	0.040	0.050
SE	7:00 AM	30 min Avg	0.026	30 min Avg	0.036	0.061	0.071
SE	7:30 AM	30 min Avg	0.113	30 min Avg	0.049	0.148	0.158
SE	8:00 AM	30 min Avg	0.043	30 min Avg	0.069	0.078	0.088
SE	8:30 AM	30 min Avg	0.072	30 min Avg	0.057	0.107	0.117
SE	9:00 AM	30 min Avg	0.029	30 min Avg	0.050	0.064	0.074
SE	9:30 AM	30 min Avg	0.015	30 min Avg	0.023	0.050	0.060
SE	10:00 AM	30 min Avg	0.034	30 min Avg	0.031	0.069	0.079
SE	10:30 AM	30 min Avg	0.028	30 min Avg	0.037	0.063	0.073
SE	11:00 AM	30 min Avg	0.029	30 min Avg	0.031	0.064	0.074
SE	11:30 AM	30 min Avg	0.040	30 min Avg	0.040	0.075	0.085
SE	12:00 PM	30 min Avg	0.039	30 min Avg	0.037	0.074	0.084
SE	12:30 PM	30 min Avg	0.060	30 min Avg	0.038	0.095	0.105
SE	1:00 PM	30 min Avg	0.040	30 min Avg	0.043	0.075	0.085
SE	1:30 PM	30 min Avg	0.030	30 min Avg	0.032	0.065	0.075
SE	2:00 PM	30 min Avg	0.036	30 min Avg	0.033	0.071	0.081
SE**	2:30 PM	30 min Avg	0.002	30 min Avg	0.011	0.037	0.047
SE	3:00 PM	30 min Avg	0.009	30 min Avg	0.012	0.044	0.054
SE	3:30 PM	30 min Avg	0.008	30 min Avg	0.008	0.043	0.053
SE	4:00 PM	30 min Avg	0.012	30 min Avg	0.013	0.047	0.057
SE	4:30 PM	30 min Avg	0.011	30 min Avg	0.014	0.046	0.056
SE	5:00 PM	30 min Avg	0.019	30 min Avg	0.016	0.054	0.064
SE	5:30 PM	30 min Avg	0.021	30 min Avg	0.019	0.056	0.066

Notes:

All readings in mg/m3
 Action level = upwind concentration + 0.035 mg/m3
 Stop Work Level = upwind concentration + 0.045 mg/m3

Note time/duration of work stoppage:
**The sky was hazy from start of monitoring (prior to work beginning at the site) and cleared to partly cloudy between 2:00 and 2:30 pm. Additionally, the prevailing winds were strong out of Southeast, between 16 and 26 MPH with gusts as high as 46 MPH. The data collected at both E-Bam Units at 2:30 pm through remainder of the day reflect a marked decrease in particulate matter concentrations.

**Former ASARCO-Encycle Demolition
Particulate Monitoring Summary
Week Ending 5-14-11**

Date: 5/10/2011 Technician: Carl Jones

Prevailing Wind

Direction	Time	Unit 2-Upwind Reading	Unit 1-Downwind Reading	Action Level	Stop Work		
SE	6:30 AM	30 min Avg	-0.005	30 min Avg	-0.005	0.040	0.050
SE	7:00 AM	30 min Avg	0.112	30 min Avg	0.045	0.147	0.157
SE	7:30 AM	30 min Avg	0.031	30 min Avg	0.066	0.066	0.076
SE	8:00 AM	30 min Avg	0.047	30 min Avg	0.027	0.082	0.092
SE	8:30 AM	30 min Avg	0.032	30 min Avg	0.056	0.067	0.077
SE	9:00 AM	30 min Avg	0.017	30 min Avg	0.014	0.052	0.062
SE	9:30 AM	30 min Avg	0.000	30 min Avg	0.010	0.035	0.045
SE	10:00 AM	30 min Avg	0.002	30 min Avg	0.005	0.037	0.047
SE	10:30 AM	30 min Avg	0.006	30 min Avg	0.016	0.041	0.051
SE	11:00 AM	30 min Avg	0.014	30 min Avg	0.018	0.049	0.059
SE	11:30 AM	30 min Avg	0.003	30 min Avg	0.001	0.038	0.048
SE	12:00 PM	30 min Avg	0.007	30 min Avg	0.015	0.042	0.052
SE	12:30 PM	30 min Avg	0.015	30 min Avg	0.026	0.050	0.060
SE	1:00 PM	30 min Avg	0.025	30 min Avg	0.021	0.060	0.070
SE	1:30 PM	30 min Avg	0.022	30 min Avg	0.025	0.057	0.067
SE	2:00 PM	30 min Avg	0.025	30 min Avg	0.022	0.060	0.070
SE	2:30 PM	30 min Avg	0.019	30 min Avg	0.021	0.054	0.064
SE	3:00 PM	30 min Avg	0.014	30 min Avg	0.014	0.049	0.059
SE	3:30 PM	30 min Avg	0.018	30 min Avg	0.019	0.053	0.063
SE	4:00 PM	30 min Avg	0.023	30 min Avg	0.026	0.058	0.068
SE	4:30 PM	30 min Avg	0.022	30 min Avg	0.022	0.057	0.067
SE	5:00 PM	30 min Avg	0.019	30 min Avg	0.016	0.054	0.064
SE	5:30 PM	30 min Avg	0.026	30 min Avg	0.037	0.061	0.071

Notes:

- All readings in mg/m3
- Action level = upwind concentration + 0.035 mg/m3
- Stop Work Level = upwind concentration + 0.045 mg/m3

Note time/duration of work stoppage: The 30-minute particulate average between 7:00 and 7:30 AM equaled the particulate action level, however, all project personnel were attending the daily safety meeting at this time. No demolition, abatement or waste removal was being conducted and no vehicles were moving about the site.

**Former ASARCO-Encycle Demolition
Particulate Monitoring Summary
Week Ending 5-14-11**

Date: 5/11/2011 Technician: Carl Jones

Prevailing Wind

Direction	Time	Unit 2-Upwind Reading	Unit 1-Downwind Reading	Action Level	Stop Work		
SE	6:30 AM	30 min Avg	-0.005	30 min Avg	-0.005	0.040	0.050
SE	7:00 AM	30 min Avg	0.023	30 min Avg	0.010	0.058	0.068
SE	7:30 AM	30 min Avg	0.084	30 min Avg	0.072	0.119	0.129
SE	8:00 AM	30 min Avg	0.041	30 min Avg	0.025	0.076	0.086
SE	8:30 AM	30 min Avg	0.018	30 min Avg	0.040	0.053	0.063
SE	9:00 AM	30 min Avg	0.011	30 min Avg	0.009	0.046	0.056
ESE	9:30 AM	30 min Avg	0.013	30 min Avg	0.017	0.048	0.058
ESE	10:00 AM	30 min Avg	0.035	30 min Avg	0.023	0.070	0.080
ESE	10:30 AM	30 min Avg	-0.005	30 min Avg	-0.005	0.040	0.050
ESE	11:00 AM	30 min Avg	0.003	30 min Avg	0.011	0.038	0.048
ESE	11:30 AM	30 min Avg	0.005	30 min Avg	0.006	0.040	0.050
ESE	12:00 PM	30 min Avg	0.014	30 min Avg	0.007	0.049	0.059
ESE	12:30 PM	30 min Avg	0.015	30 min Avg	0.022	0.050	0.060
ESE	1:00 PM	30 min Avg	0.016	30 min Avg	0.025	0.051	0.061
ESE	1:30 PM	30 min Avg	0.025	30 min Avg	0.030	0.060	0.070
ESE	2:00 PM	30 min Avg	0.016	30 min Avg	0.019	0.051	0.061
SE	2:30 PM	30 min Avg	0.026	30 min Avg	0.021	0.061	0.071
SE	3:00 PM	30 min Avg	0.022	30 min Avg	0.027	0.057	0.067
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	0.022	30 min Avg	0.012	0.057	0.067
SE	4:30 PM	30 min Avg	0.011	30 min Avg	0.021	0.046	0.056
SE	5:00 PM	30 min Avg	0.017	30 min Avg	0.014	0.052	0.062
SE	5:30 PM	30 min Avg	0.022	30 min Avg	0.025	0.057	0.067

Notes:

All readings in mg/m³

Action level = upwind concentration + 0.035 mg/m³

Stop Work Level = upwind concentration + 0.045 mg/m³

Note time/duration of work stoppage:

**Former ASARCO-Encycle Demolition
Particulate Monitoring Summary
Week Ending 5-14-11**

Date: 5/12/2011 Technician: Carl Jones

Prevailing Wind

Direction	Time	Unit 2-Upwind Reading	Unit 1-Downwind Reading	Action Level	Stop Work		
SE	6:30 AM	30 min Avg	-0.005	30 min Avg	-0.005	0.040	0.040
SE	7:00 AM	30 min Avg	0.001	30 min Avg	0.007	0.036	0.046
SE	7:30 AM	30 min Avg	0.067	30 min Avg	0.014	0.102	0.112
ESE	8:00 AM	30 min Avg	0.019	30 min Avg	0.013	0.054	0.064
ESE	8:30 AM	30 min Avg	0.037	30 min Avg	0.023	0.072	0.082
ESE	9:00 AM	30 min Avg	0.047	30 min Avg	0.024	0.082	0.092
ESE	9:30 AM	30 min Avg	0.032	30 min Avg	0.041	0.067	0.077
ESE	10:00 AM	30 min Avg	0.013	30 min Avg	0.045	0.048	0.058
ESE	10:30 AM	30 min Avg	0.009	30 min Avg	0.022	0.044	0.054
ESE	11:00 AM	30 min Avg	0.007	30 min Avg	0.009	0.042	0.052
ESE	11:30 AM	30 min Avg	0.022	30 min Avg	0.023	0.057	0.067
ESE	12:00 PM	30 min Avg	0.025	30 min Avg	0.021	0.060	0.070
ESE	12:30 PM	30 min Avg	0.022	30 min Avg	0.043	0.057	0.067
ESE	1:00 PM	30 min Avg	0.030	30 min Avg	0.017	0.065	0.075
ESE	1:30 PM	30 min Avg	0.020	30 min Avg	0.000	0.055	0.065

Notes:
 All readings in mg/m3
 Action level = upwind concentration + 0.035 mg/m3
 Stop Work Level = upwind concentration + 0.045 mg/m3

Note time/duration of work stoppage: 1:45 PM-Shut down and evacuated site due to severe thunderstorms and gusty North winds, with possibility of damaging hail and cloud to ground lightening as per NOAA forecast.

**Former ASARCO-Encycle Demolition
Particulate Monitoring Summary
Week Ending 5-14-11**

Date: 5/13/2011 Technician: Carl Jones

Prevailing Wind

Direction	Time	Unit 2-Upwind Reading	Unit 1-Downwind Reading	Action Level	Stop Work		
SSW	6:30 AM	30 min Avg	-0.005	30 min Avg	-0.005	0.040	0.050
SSW	7:00 AM	30 min Avg	0.003	30 min Avg	0.005	0.038	0.048
N	7:30 AM	30 min Avg	0.042	30 min Avg	0.007	0.077	0.087
NE	8:00 AM	30 min Avg	0.021	30 min Avg	0.039	0.056	0.066
NE	8:30 AM	30 min Avg	0.045	30 min Avg		0.080	0.090
NE	9:00 AM	30 min Avg		30 min Avg	-0.005	0.035	0.045
NE	9:30 AM	30 min Avg		30 min Avg	0.050	0.035	0.045
NE	10:00 AM	30 min Avg	0.023	30 min Avg	0.024	0.058	0.068
NNE	10:30 AM	30 min Avg	0.041	30 min Avg	0.017	0.076	0.086
NNE	11:00 AM	30 min Avg	0.038	30 min Avg	0.025	0.073	0.083
NNE	11:30 AM	30 min Avg	-0.003	30 min Avg	0.002	0.038	0.048
NE	12:00 PM	30 min Avg	0.019	30 min Avg	0.014	0.054	0.064
NE	12:30 PM	30 min Avg		30 min Avg	-0.005	0.035	0.045
NE	1:00 PM	30 min Avg		30 min Avg	-0.005	0.035	0.045
NE	1:30 PM	30 min Avg	0.009	30 min Avg	-0.005	0.044	0.054
NE	2:00 PM	30 min Avg	0.039	30 min Avg	0.015	0.074	0.084
NE	2:30 PM	30 min Avg	0.017	30 min Avg	0.017	0.052	0.062
NE	3:00 PM	30 min Avg	0.032	30 min Avg	0.037	0.067	0.077
NE	3:30 PM	30 min Avg	0.006	30 min Avg	0.020	0.041	0.051
NE	4:00 PM	30 min Avg	0.016	30 min Avg	0.020	0.051	0.061
NE	4:30 PM	30 min Avg	0.019	30 min Avg	0.022	0.054	0.064
NE	5:00 PM	31 min Avg	0.019	31 min Avg	0.014	0.054	0.064
NE	5:30 PM	32 min Avg	0.026	32 min Avg	0.015	0.061	0.071

Notes:

- All readings in mg/m³
- Action level = upwind concentration + 0.035 mg/m³
- Stop Work Level = upwind concentration + 0.045 mg/m³

Note time/duration of work stoppage: No demo, abatement or hazardous waste removal was started due to the northerly wind direction. Between 8:30 am and 9:30 am, both E-Bam units were moved in order to collect data from the northerly wind direction, so no readings taken during the move for each unit. At 12:30 pm, Unit 2 had a power outage due to generator running out of fuel with the gauge indicating 1/4 tank remaining; Unit 2 had a flow failure alarm and was taken out of service and replaced with the backup unit (#M3634).

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Prevailing Wind

Direction	Time	Unit 2-Upwind Reading	Unit 1-Downwind Reading	Action Level	Stop Work
	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

Notes:

All readings in mg/m³
 Action level = upwind concentration + 0.035 mg/m³
 Stop Work Level = upwind concentration + 0.045 mg/m³

Note time/duration of work stoppage: No particulate air monitoring data collected/no work at site.
