Former ASARCO-Encycle Demolition
Particulate Monitoring Summary
Week Ending 5-21-11

Date: 5/16/2011 Technician: Carl Jones

Prevailing Wind Direction	Time	Unit 2-Upwind Reading		Unit 1-Downwind Reading		Action Level	Stop Work
NE	7:00 AM	30 min Avg	-0.005	30 min Avg	-0.005	0.040	0.050
NE	7:30 AM	30 min Avg	0.007	30 min Avg	0.065	0.042	0.052
NE	8:00 AM	30 min Avg	0.099	30 min Avg	0.024	0.134	0.144
NE	8:30 AM	30 min Avg	-0.005	30 min Avg	-0.002	0.040	0.050
NE	9:00 AM	30 min Avg	0.003	30 min Avg	0.016	0.038	0.048
NE	9:30 AM	30 min Avg	0.002	30 min Avg	0.016	0.037	0.047
NE	10:00 AM	30 min Avg	-0.001	30 min Avg	0.011	0.036	0.046
NE	10:30 AM	30 min Avg	-0.002	30 min Avg	0.002	0.037	0.047
NE	11:00 AM	30 min Avg	-0.004	30 min Avg	0.004	0.039	0.049
NE	11:30 AM	30 min Avg	0.006	30 min Avg	0.007	0.041	0.051
ENE	12:00 PM	30 min Avg	0.013	30 min Avg	0.002	0.048	0.058
ENE	12:30 PM	30 min Avg	-0.005	30 min Avg	0.003	0.040	0.050
ENE	1:00 PM	30 min Avg	0.004	30 min Avg	0.015	0.039	0.049
ENE	1:30 PM	30 min Avg	0.005	30 min Avg	0.005	0.040	0.050
E	2:00 PM	30 min Avg	0.005	30 min Avg	-0.001	0.040	0.050
E	2:30 PM	30 min Avg	0.008	30 min Avg	0.012	0.043	0.053
E	3:00 PM	30 min Avg	0.011	30 min Avg	0.008	0.046	0.056
E	3:30 PM	30 min Avg	0.000	30 min Avg	0.011	0.035	0.045
ESE	4:00 PM	30 min Avg	0.008	30 min Avg	0.002	0.043	0.053
ESE	4:30 PM	30 min Avg	0.001	30 min Avg	0.005	0.036	0.046
ESE	5:00 PM	30 min Avg	0.010	30 min Avg	0.011	0.045	0.055
ESE	5:30 PM	30 min Avg	0.001	30 min Avg	0.008	0.036	0.046

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 commenced until after 2:00 pm when wind direction switched from out of the North to an East/Southeast direction. 0730
- Background air monitoring readings - no work activities ocuring at site.

Former ASARCO-Encycle Demolition
Particulate Monitoring Summary
Week Ending 5-21-11

Date: **5/17/2011** 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	0.000	30 min Avg	0.000	0.035	0.045
S	6:30 AM	30 min Avg	-0.005	30 min Avg	-0.005	0.040	0.050
S	7:00 AM	30 min Avg	0.009	30 min Avg	0.024	0.044	0.054
S	7:30 AM	30 min Avg	0.073	30 min Avg	0.055	0.108	0.118
S	8:00 AM	30 min Avg	-0.005	30 min Avg	0.024	0.040	0.050
SSE	8:30 AM	30 min Avg	0.064	30 min Avg	0.002	0.099	0.109
E	9:00 AM	30 min Avg	-0.004	30 min Avg	0.014	0.039	0.049
E	9:30 AM	30 min Avg	0.006	30 min Avg	0.009	0.041	0.051
E	10:00 AM	30 min Avg	0.008	30 min Avg	-0.003	0.043	0.053
E	10:30 AM	30 min Avg	0.005	30 min Avg	0.010	0.040	0.050
E	11:00 AM	30 min Avg	-0.001	30 min Avg	0.007	0.036	0.046
E	11:30 AM	30 min Avg	0.009	30 min Avg	0.002	0.044	0.054
ESE	12:00 PM	30 min Avg	0.001	30 min Avg	0.014	0.036	0.046
ESE	12:30 PM	30 min Avg	0.010	30 min Avg	0.008	0.045	0.055
ESE	1:00 PM	30 min Avg	0.015	30 min Avg	0.011	0.050	0.060
ESE	1:30 PM	30 min Avg	0.009	30 min Avg	0.002	0.044	0.054
ESE	2:00 PM	30 min Avg	0.004	30 min Avg	0.012	0.039	0.049
ESE	2:30 PM	30 min Avg	0.007	30 min Avg	0.005	0.042	0.052
ESE	3:00 PM	30 min Avg	0.010	30 min Avg	0.010	0.045	0.055
ESE	3:30 PM	30 min Avg	0.011	30 min Avg	0.007	0.046	0.056
ESE	4:00 PM	30 min Avg	0.013	30 min Avg	0.017	0.048	0.058
ESE	4:30 PM	30 min Avg	0.003	30 min Avg	0.000	0.038	0.048
ESE	5:00 PM	30 min Avg	0.014	30 min Avg	0.012	0.049	0.059
ESE	5:30 PM	30 min Avg	0.012	30 min Avg	0.009	0.047	0.057

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 5-21-11

Date: **5/18/2011** 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	0.091	30 min Avg	0.072	0.126	0.136
SE	7:30 AM	30 min Avg	0.022	30 min Avg	0.010	0.057	0.067
SE	8:00 AM	30 min Avg	0.019	30 min Avg	0.020	0.054	0.064
SE	8:30 AM	30 min Avg	0.019	30 min Avg	0.019	0.054	0.064
SE	9:00 AM	30 min Avg	-0.005	30 min Avg	-0.005	0.040	0.050
SE	9:30 AM	30 min Avg	0.076	30 min Avg	0.040	0.111	0.121
SE	10:00 AM	30 min Avg	-0.001	30 min Avg	0.005	0.036	0.046
SE	10:30 AM	30 min Avg	0.023	30 min Avg	0.022	0.058	0.068
SE	11:00 AM	30 min Avg	0.021	30 min Avg	0.016	0.056	0.066
SE	11:30 AM	30 min Avg	0.000	30 min Avg	0.004	0.035	0.045
SE	12:00 PM	30 min Avg	-0.005	30 min Avg	-0.001	0.040	0.050
SE	12:30 PM	30 min Avg	0.012	30 min Avg	0.015	0.047	0.057
SE	1:00 PM	30 min Avg	0.012	30 min Avg	0.009	0.047	0.057
SE	1:30 PM	30 min Avg	0.004	30 min Avg	0.019	0.039	0.049
SE	2:00 PM	30 min Avg	0.022	30 min Avg	0.019	0.057	0.067
SE	2:30 PM	30 min Avg	0.022	30 min Avg	0.012	0.057	0.067
SE	3:00 PM	30 min Avg	0.010	30 min Avg	0.014	0.045	0.055
SE	3:30 PM	30 min Avg	0.015	30 min Avg	0.013	0.050	0.060
SE	4:00 PM	30 min Avg	0.007	30 min Avg	0.010	0.042	0.052
SE	4:30 PM	30 min Avg	0.020	30 min Avg	0.008	0.055	0.065
SE	5:00 PM	30 min Avg	0.005	30 min Avg	0.015	0.040	0.050
SE	5:30 PM	30 min Avg	0.020	30 min Avg	0.011	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: 6:30 and 7:00 Background air monitoring readings - no work activities ocuring at site.

Former ASARCO-Encycle Demolition
Particulate Monitoring Summary
Week Ending 5-21-11

Date: **5/19/2011** 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	0.064	30 min Avg	0.023	0.099	0.109
SE	7:30 AM	30 min Avg	0.037	30 min Avg	0.020	0.072	0.082
SE	8:00 AM	30 min Avg	0.055	30 min Avg	0.021	0.090	0.100
SE	8:30 AM	30 min Avg	0.006	30 min Avg	0.030	0.041	0.051
SE	9:00 AM	30 min Avg	-0.005	30 min Avg	0.012	0.040	0.050
SE	9:30 AM	30 min Avg	0.114	30 min Avg	0.017	0.149	0.159
SE	10:00 AM	30 min Avg	0.041	30 min Avg	0.026	0.076	0.086
SE	10:30 AM	30 min Avg	0.023	30 min Avg	0.022	0.058	0.068
SE	11:00 AM	30 min Avg	0.027	30 min Avg	0.010	0.062	0.072
SE	11:30 AM	30 min Avg	0.014	30 min Avg	0.019	0.049	0.059
SE	12:00 PM	30 min Avg	0.000	30 min Avg	0.049	0.035	0.045
SE	12:30 PM	30 min Avg	-0.002	30 min Avg	0.029	0.037	0.047
SE	1:00 PM	30 min Avg	0.035	30 min Avg	0.027	0.070	0.080
SE	1:30 PM	30 min Avg	0.020	30 min Avg	0.028	0.055	0.065
SE	2:00 PM	30 min Avg	0.018	30 min Avg	0.015	0.053	0.063
SE	2:30 PM	30 min Avg	0.021	30 min Avg	0.019	0.056	0.066
SE	3:00 PM	30 min Avg	0.023	30 min Avg	0.029	0.058	0.068
SE	3:30 PM	30 min Avg	0.046	30 min Avg	0.032	0.081	0.091
SE	4:00 PM	30 min Avg	0.040	30 min Avg	0.033	0.075	0.085
SE	4:30 PM	30 min Avg	0.043	30 min Avg	0.004	0.078	0.088
SE	5:00 PM	30 min Avg	0.023	30 min Avg	0.040	0.058	0.068
SE	5:30 PM	30 min Avg	0.040	30 min Avg	0.016	0.075	0.085

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: 12:00 PM-30 minute average of particulate matter concentrations collected at the upwind E-Bam unit between 11:30 AM and 12:00 PM was "zero", resulting in a Stop Work Action Level downwind. PM's were notified and all demo, abatement and hazardous waste removal ceased while additional dust suppression measures were implemented in the work areas and roadway. Work resumed at the site after a subsequent lower reading was collected 30 minutes later.

Former ASARCO-Encycle Demolition
Particulate Monitoring Summary
Week Ending 5-21-11

Date: **5/20/2011** 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	0.048	30 min Avg	0.071	0.083	0.093
ESE	7:30 AM	30 min Avg	0.149	30 min Avg	0.072	0.184	0.194
ESE	8:00 AM	30 min Avg	0.095	30 min Avg	0.077	0.130	0.140
ESE	8:30 AM	30 min Avg	0.061	30 min Avg	0.074	0.096	0.106
ESE	9:00 AM	30 min Avg	0.038	30 min Avg	0.072	0.073	0.083
SE	9:30 AM	30 min Avg	0.028	30 min Avg	0.025	0.063	0.073
SE	10:00 AM	30 min Avg	0.015	30 min Avg	0.024	0.050	0.060
SE	10:30 AM	30 min Avg	0.024	30 min Avg	0.035	0.059	0.069
SE	11:00 AM	30 min Avg	0.038	30 min Avg	0.034	0.073	0.083
SE	11:30 AM	30 min Avg	0.020	30 min Avg	0.022	0.055	0.065
SE	12:00 PM	30 min Avg	0.024	30 min Avg	0.036	0.059	0.069
SE	12:30 PM	30 min Avg	0.040	30 min Avg	0.040	0.075	0.085
SE	1:00 PM	30 min Avg	0.038	30 min Avg	0.046	0.073	0.083
SE	1:30 PM	30 min Avg	0.039	30 min Avg	0.030	0.074	0.084
SE	2:00 PM	30 min Avg	0.036	30 min Avg	0.035	0.071	0.081
SE	2:30 PM	30 min Avg	0.031	30 min Avg	0.023	0.066	0.076
SE	3:00 PM	30 min Avg	0.026	30 min Avg	0.034	0.061	0.071
SE	3:30 PM	30 min Avg	0.039	30 min Avg	0.035	0.074	0.084
SE	4:00 PM	30 min Avg	0.035	30 min Avg	0.034	0.070	0.080
SE	4:30 PM	30 min Avg	0.037	30 min Avg	0.043	0.072	0.082
SE	5:00 PM	31 min Avg	0.048	31 min Avg	0.038	0.083	0.093
SE	5:30 PM	32 min Avg	0.043	32 min Avg	0.053	0.078	0.088

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 5-21-11

Date: **5/21/2011** 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	-0.004	0.040	0.050
SE	7:00 AM	30 min Avg	0.064	30 min Avg	0.043	0.099	0.109
SE	7:30 AM	30 min Avg	0.11	30 min Avg	0.071	0.145	0.155
SE	8:00 AM	30 min Avg	0.054	30 min Avg	0.056	0.089	0.099
SE	8:30 AM	30 min Avg	0.065	30 min Avg	0.072	0.100	0.110
SE	9:00 AM	30 min Avg	0.035	30 min Avg	0.038	0.070	0.080
SE	9:30 AM	30 min Avg	0.033	30 min Avg	0.023	0.068	0.078
ESE	10:00 AM	30 min Avg	0.001	30 min Avg	0.005	0.036	0.046
ESE	10:30 AM	30 min Avg	0.016	30 min Avg	0.016	0.051	0.061
ESE	11:00 AM	30 min Avg	0.021	30 min Avg	0.025	0.056	0.066
ESE	11:30 AM	30 min Avg	-0.005	30 min Avg	0.003	0.040	0.050
ESE	12:00 PM	30 min Avg	0.004	30 min Avg	0.004	0.039	0.049
ESE	12:30 PM	30 min Avg	0.025	30 min Avg	0.029	0.060	0.070

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: All work stopped at 12:15 for the weekend.