



**Former ASARCO-Encyle Demolition  
Particulate Monitoring Summary  
Week Ending 09-10-11**

Date: 09/06/11 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	0.013	30 min Avg	0.028	0.036	0.042
NNE	6:30 AM	30 min Avg	0.012	30 min Avg	0.025	0.035	0.041
NNE	7:00 AM	30 min Avg	0.007	30 min Avg	0.017	0.030	0.036
NNE	7:30 AM	30 min Avg	0.005	30 min Avg	0.018	0.028	0.034
NNE	8:00 AM	30 min Avg	0.014	30 min Avg	0.024	0.037	0.043
N	8:30 AM	30 min Avg	0.006	30 min Avg	0.010	0.029	0.035
NE	9:00 AM	30 min Avg	0.008	30 min Avg	0.016	0.031	0.037
N	9:30 AM	30 min Avg	0.007	30 min Avg	0.014	0.030	0.036
NE	10:00 AM	30 min Avg	0.019	30 min Avg	0.023	0.042	0.048
NE	10:30 AM	30 min Avg	0.016	30 min Avg	0.018	0.039	0.045
NE	11:00 AM	30 min Avg	0.021	30 min Avg	0.011	0.044	0.050
NE	11:30 AM	30 min Avg	0.017	30 min Avg	0.020	0.040	0.046
ENE	12:00 PM	30 min Avg	0.029	30 min Avg	0.018	0.052	0.058
ENE	12:30 PM	30 min Avg	0.045	30 min Avg	0.035	0.068	0.074
ENE	1:00 PM	30 min Avg	0.038	30 min Avg	0.033	0.061	0.067
ENE	1:30 PM	30 min Avg	0.045	30 min Avg	0.036	0.068	0.074
ENE	2:00 PM	30 min Avg	0.047	30 min Avg	0.040	0.070	0.076
ESE	2:30 PM	30 min Avg	0.033	30 min Avg	0.034	0.068	0.078
ESE	3:00 PM	30 min Avg	0.040	30 min Avg	0.043	0.075	0.085
ESE	3:30 PM	30 min Avg	0.039	30 min Avg	0.030	0.074	0.084
ESE	4:00 PM	30 min Avg	0.046	30 min Avg	0.034	0.081	0.091
ESE	4:30 PM	30 min Avg	0.040	30 min Avg	0.037	0.075	0.085
ESE	5:00 PM	30 min Avg	0.042	30 min Avg	0.048	0.077	0.087
ESE	5:30 PM	30 min Avg	0.050	30 min Avg	0.049	0.085	0.095

Notes:

All readings in mg/m<sup>3</sup>

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

Action level = upwind concentration + 0.035 mg/m<sup>3</sup>

Stop Work Level = upwind concentration + 0.045 mg/m<sup>3</sup>

Note time/duration of work stoppage: Elevated readings were due to smoke and haze originating from wildfires burning in Central Texas.

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

Action level = upwind concentration + 0.023 mg/m<sup>3</sup>

Stop Work Level = upwind concentration + 0.029 mg/m<sup>3</sup>

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 while wind has northerly component only

**Former ASARCO-Encycle Demolition  
Particulate Monitoring Summary  
Week Ending 09-10-11**

Date: 9/7/11 Technician: Carl Jones

**Prevailing Wind**

<b>Direction</b>	<b>Time</b>	<b>Unit 2-Upwind Reading</b>	<b>Unit 1-Downwind Reading</b>	<b>Action Level</b>	<b>Stop Work</b>		
NNE	6:00 AM	30 min Avg	-0.005	30 min Avg	-0.005	0.028	0.034
NNE	6:30 AM	30 min Avg	0.121	30 min Avg	0.124	0.144	0.150
NNE	7:00 AM	30 min Avg	0.051	30 min Avg	0.047	0.074	0.080
NNE	7:30 AM	30 min Avg	0.044	30 min Avg	0.046	0.067	0.073
NE	8:00 AM	30 min Avg	0.045	30 min Avg	0.051	0.068	0.074
N	8:30 AM	30 min Avg	0.019	30 min Avg	0.043	0.042	0.048
N	9:00 AM	30 min Avg	0.011	30 min Avg	0.035	0.034	0.040
N	9:30 AM	30 min Avg	0.024	30 min Avg	0.037	0.047	0.053
NNE	10:00 AM	30 min Avg	0.031	30 min Avg	0.031	0.054	0.060
NNE	10:30 AM	30 min Avg	0.021	30 min Avg	0.028	0.044	0.050
NE	11:00 AM	30 min Avg	0.020	30 min Avg	0.011	0.043	0.049
ENE	11:30 AM	30 min Avg	0.024	30 min Avg	0.021	0.047	0.053
ENE	12:00 PM	30 min Avg	0.015	30 min Avg	0.010	0.038	0.044
N	12:30 PM	30 min Avg	0.006	30 min Avg	0.016	0.029	0.035
ENE	1:00 PM	30 min Avg	0.014	30 min Avg	0.023	0.037	0.043
ESE	1:30 PM	30 min Avg	0.026	30 min Avg	0.016	0.061	0.071
ESE	2:00 PM	30 min Avg	0.011	30 min Avg	0.014	0.046	0.056
ESE	2:30 PM	30 min Avg	0.015	30 min Avg	0.014	0.050	0.060
ESE	3:00 PM	30 min Avg	0.013	30 min Avg	0.011	0.048	0.058
ESE	3:30 PM	30 min Avg	0.019	30 min Avg	0.019	0.054	0.064
ESE	4:00 PM	30 min Avg	0.019	30 min Avg	0.019	0.054	0.064
ESE	4:30 PM	30 min Avg	0.013	30 min Avg	0.016	0.048	0.058
ESE	5:00 PM	30 min Avg	0.028	30 min Avg	0.026	0.063	0.073
ESE	5:30 PM	30 min Avg	0.027	30 min Avg	0.028	0.062	0.072

Notes:

All readings in mg/m<sup>3</sup>

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

Action level = upwind concentration + 0.035 mg/m<sup>3</sup>

Stop Work Level = upwind concentration + 0.045 mg/m<sup>3</sup>

*Note time/duration of work stoppage:*

---



---



---

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

Action level = upwind concentration + 0.023 mg/m<sup>3</sup>

Stop Work Level = upwind concentration + 0.029 mg/m<sup>3</sup>

*Note time/duration of work stoppage:* Particulate matter concentrations collected at both 8:00 a.m. and 9:00 a.m were elevated to ".Site Action Levels".

**Additional dust suppression measures implemented included adding more water in the work areas and roadways around plant.**

---



---

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 09-10-11**

Date: 9/8/01 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	-0.005	30 min Avg	-0.005	0.028	0.034
N	6:30 AM	30 min Avg	0.075	30 min Avg	0.066	0.098	0.104
N	7:00 AM	30 min Avg	0.020	30 min Avg	0.025	0.043	0.049
N	7:30 AM	30 min Avg	0.009	30 min Avg	0.014	0.032	0.038
N	8:00 AM	30 min Avg	0.012	30 min Avg	0.010	0.035	0.041
N	8:30 AM	30 min Avg	-0.005	30 min Avg	0.015	0.028	0.034
N	9:00 AM	30 min Avg	-0.002	30 min Avg	0.010	0.025	0.031
N	9:30 AM	30 min Avg	-0.005	30 min Avg	0.017	0.028	0.034
N	10:00 AM	30 min Avg	0.010	30 min Avg	0.004	0.033	0.039
N	10:30 AM	30 min Avg	0.009	30 min Avg	0.019	0.032	0.038
N	11:00 AM	30 min Avg	0.005	30 min Avg	0.004	0.028	0.034
N	11:30 AM	30 min Avg	0.010	30 min Avg	0.003	0.033	0.039
N	12:00 PM	30 min Avg	0.012	30 min Avg	0.004	0.035	0.041
N	12:30 PM	30 min Avg	0.015	30 min Avg	-0.002	0.038	0.044
NE	1:00 PM	30 min Avg	0.001	30 min Avg	0.009	0.024	0.030
NNE	1:30 PM	30 min Avg	0.015	30 min Avg	0.011	0.038	0.044
NNE	2:00 PM	30 min Avg	0.019	30 min Avg	-0.005	0.042	0.048
NE	2:30 PM	30 min Avg	0.013	30 min Avg	0.012	0.036	0.042
NE	3:00 PM	30 min Avg	0.024	30 min Avg	0.015	0.047	0.053
ESE	3:30 PM	30 min Avg	0.017	30 min Avg	0.020	0.052	0.062
ESE	4:00 PM	30 min Avg	0.016	30 min Avg	0.003	0.051	0.061
ESE	4:30 PM	30 min Avg	0.015	30 min Avg	0.005	0.050	0.060
ESE	5:00 PM	30 min Avg	0.008	30 min Avg	0.028	0.043	0.053
ESE	5:30 PM	30 min Avg	0.004	30 min Avg	0.018	0.039	0.049

Notes:

All readings in mg/m<sup>3</sup>

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

Action level = upwind concentration + 0.035 mg/m<sup>3</sup>

Stop Work Level = upwind concentration + 0.045 mg/m<sup>3</sup>

*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/m<sup>3</sup>

Stop Work Level = upwind concentration + 0.029 mg/m<sup>3</sup>

*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 09-10-11**

Date: 9/9/01 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	-0.005	30 min Avg	-0.005	0.040	0.050
SSE	6:30 AM	30 min Avg	0.099	30 min Avg	0.095	0.134	0.144
SSE	7:00 AM	30 min Avg	0.032	30 min Avg	0.029	0.067	0.077
SSE	7:30 AM	30 min Avg	0.006	30 min Avg	0.024	0.041	0.051
SSE	8:00 AM	30 min Avg	0.021	30 min Avg	0.014	0.056	0.066
NNE	8:30 AM	30 min Avg	-0.002	30 min Avg	0.017	0.025	0.031
NNE	9:00 AM	30 min Avg	-0.005	30 min Avg	0.015	0.028	0.034
NNE	9:30 AM	30 min Avg	0.002	30 min Avg	0.025	0.025	0.031
N	10:00 AM	30 min Avg	0.020	30 min Avg	0.012	0.043	0.049
NNE	10:30 AM	30 min Avg	0.012	30 min Avg	0.013	0.035	0.041
NE	11:00 AM	30 min Avg	0.016	30 min Avg	0.014	0.039	0.045
NNE	11:30 AM	30 min Avg	0.020	30 min Avg	0.019	0.043	0.049
ENE	12:00 PM	30 min Avg	0.015	30 min Avg	0.013	0.038	0.044
ENE	12:30 PM	30 min Avg	0.038	30 min Avg	0.033	0.061	0.067
ENE	1:00 PM	30 min Avg	0.019	30 min Avg	0.019	0.042	0.048
ENE	1:30 PM	30 min Avg	0.023	30 min Avg	0.019	0.046	0.052
ESE	2:00 PM	30 min Avg	0.023	30 min Avg	0.015	0.058	0.068
ESE	2:30 PM	30 min Avg	0.027	30 min Avg	0.018	0.062	0.072
ESE	3:00 PM	30 min Avg	0.016	30 min Avg	0.022	0.051	0.061
ESE	3:30 PM	30 min Avg	0.015	30 min Avg	0.023	0.050	0.060
ESE	4:00 PM	30 min Avg	0.021	30 min Avg	0.015	0.056	0.066
ESE	4:30 PM	30 min Avg	0.013	30 min Avg	0.018	0.048	0.058
ESE	5:00 PM	30 min Avg	0.022	30 min Avg	0.013	0.057	0.067
ESE	5:30 PM	30 min Avg	0.014	30 min Avg	0.016	0.049	0.059

Notes:

All readings in mg/m<sup>3</sup>

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

Action level = upwind concentration + 0.035 mg/m<sup>3</sup>

Stop Work Level = upwind concentration + 0.045 mg/m<sup>3</sup>

*Note time/duration of work stoppage:*

---



---



---

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

Action level = upwind concentration + 0.023 mg/m<sup>3</sup>

Stop Work Level = upwind concentration + 0.029 mg/m<sup>3</sup>

*Note time/duration of work stoppage:* Particulate matter concentration collected at 9:30 AM was elevated to ".Site Action Levels".

**Additional dust suppression measures implemented included adding more water in the work areas and roadways around plant.**

---



---

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 09-10-11**

Date: 9/10/11 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	0.088	30 min Avg	0.091	0.123	0.133
S	7:00 AM	30 min Avg	0.008	30 min Avg	0.019	0.043	0.053
S	7:30 AM	30 min Avg	0.018	30 min Avg	0.028	0.053	0.063
N	8:00 AM	30 min Avg	0.029	30 min Avg	0.018	0.052	0.058
NE	8:30 AM	30 min Avg	-0.004	30 min Avg	0.012	0.027	0.033
NE	9:00 AM	30 min Avg	-0.004	30 min Avg	0.018	0.027	0.033
NNE	9:30 AM	30 min Avg	0.003	30 min Avg	0.018	0.026	0.032
NNE	10:00 AM	30 min Avg	0.011	30 min Avg	0.008	0.034	0.040
NNE	10:30 AM	30 min Avg	0.010	30 min Avg	0.013	0.033	0.039
NNE	11:00 AM	30 min Avg	0.014	30 min Avg	0.015	0.037	0.043
NNE	11:30 AM	30 min Avg	0.018	30 min Avg	0.019	0.041	0.047
NNE	12:00 PM	30 min Avg	0.020	30 min Avg	0.014	0.043	0.049
ENE	12:30 PM	30 min Avg	0.026	30 min Avg	0.003	0.049	0.055
ENE	1:00 PM	30 min Avg	0.014	30 min Avg	0.021	0.037	0.043
E	1:30 PM	30 min Avg	0.018	30 min Avg	0.013	0.053	0.063
ESE	2:00 PM	30 min Avg	0.014	30 min Avg	0.003	0.049	0.059
ESE	2:30 PM	30 min Avg	0.012	30 min Avg	0.014	0.047	0.057
ESE	3:00 PM	30 min Avg	0.011	30 min Avg	0.012	0.046	0.056
ESE	3:30 PM	30 min Avg	0.020	30 min Avg	0.017	0.055	0.065
ESE	4:00 PM	30 min Avg	0.015	30 min Avg	0.018	0.050	0.060
ESE	4:30 PM	30 min Avg	0.007	30 min Avg	0.009	0.042	0.052
ESE	5:00 PM	30 min Avg	0.020	30 min Avg	0.013	0.055	0.065

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

Stop Work Level = upwind concentration + 0.045 mg/m3

*Note time/duration of work stoppage: All work stopped at 4:40 PM and site shut down for the weekend.*

---



---



---

**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:*

---



---



---

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