Note: This is a reference cited in *AP 42, Compilation of Air Pollutant Emission Factors, Volume I Stationary Point and Area Sources.* AP42 is located on the EPA web site at www.epa.gov/ttn/chief/ap42/

The file name refers to the reference number, the AP42 chapter and section. The file name "ref02_c01s02.pdf" would mean the reference is from AP42 chapter 1 section 2. The reference may be from a previous version of the section and no longer cited. The primary source should always be checked.

AP42 Section: 11.1

Reference Number: 217

Title: Summary Of Source Test Results At Granite Rock Co., San Jose, CA,

Bay Area Air Quality Management District, San Francisco, CA,

September 13, 1992.

AP-42 Section 11.1
Reference
Report Sect. 4
Reference 217

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BAY AREA
AIR QUALITY MANAGEMENT DISTRICT
939 Ellis Street
San Francisco, California 94109
(415) 771-6000

SUMMARY OF SOURCE TEST RESULTS

Report No. 93(
Test Date: 09/
Test Times:
Run A: 0757-0847
Run B: 0909-0959
Run C: 1014-1104

SOURCE INFORMATION		BAAQMD REPRESENTATIVES
Firm Name and Address GRANITE ROCK COMPANY 110 Granite Rock Way San Jose, CA 95136	Firm Representative and Title Mr. Doug Tolbert, Plant Manager Phone No. (408) 281-8082	Source Test Engineers C. McClure/H. Doi
	Source: S-1 Asphalt Plant	Permit Services Division / Enforcement Division J. Lim
Permit Conditions None	Plant No. 651 Operates on demand	Test Requested by: G. Solomon (NSPS) (CDS)

Operating Parameters:

Plant operated continually at 350 T.P.H. producing 1575 ton of 3/4" Aggregate Asphalt during sampling. Rotary Kiln is Natural Gas fired consuming an average of 509 C.F.M.. Baghouse differential pressure was 3.8 inches w.c..

Applicable Regulations: Regulation 10, Subpart I | VN Recommended: YES

Source Test Results and Comments:

METHOD:	TEST	RUN A	RUN B	RUN C	AVERAGE	LIMIT
ST-17	Stack Volume Flowrate, SDCFM				29,800	
	Stack Gas Temperature, ^{o}F	272	272	273	272	
ST-23	Water Content, Volume %	30.2	30.9	32.8	31.3	
ST-14	Oxygen, Volume %	12.2	12.3	11.4	12.0	
ST-5	Carbon Dioxide, Volume %	5.0	5.1	5.3	5.1	
ST-6	Carbon Monoxide, ppm				> 3300	
	Carbon Monoxide, lb/hr				> 425	
ST-15	Particulate, gr/SDCF	.641	.569	.575	.595	.04
	Particulate, lb/hr	164	145	147	152	
	Isokinetic Ratio, Act./Theo.	1.08	.97	.99		

A " > " indicates results greater than instrument limit of detection.

NOTE: P.E.R. 0910-0917 by E. Brown, Ringelmann 1 to 3 1/4. See attached report.

NO COMMERCIAL USE OF THESE RESULTS IS AUTHORIZED

Air Quality Engineer II	Date	Supervising Air Quality Engineer	Date	Approved by Source Test Manager	Date
C. McClure II C. McClure	9/11/92	K. Kunaniec K. Kunaniec	9/14/92	G. Karels	9/15/92

Form: Summary of Source Test Results

FSSTS: ej: 15 July 88

SOURCE TEST LAB DATA SHEET

PLANT: GRANITE ROCK, SAN JOSE

PAGE: 1 OF 1

SOURCE OPERATION: ASPHALT BAGHOUSE

INITIAL: KC

SOURCE TEST NO.:

TEST DATE: 09/04/92

FILTER MEDIA: GLASS FIBER, 110 MM

FILTER DATA

RUN #	FILTER #	TARE WEIGHT(g)		FINAL WEIGHT(g)		TOTAL(g)
A	652	.6108	.6109	1.1016	1.0913	.4804
B	653	.6148	.6150	1.0864	1.0866	.4714
C	654*	.6062	.6063	1.0742	1.0740	.4677
DATE/TIME		6/2 AM	6/2 PM	9/10 AM	9/10 PM	

* 7/13 AM, 7/14 AM

PROBE & NOZZLE RINSE DATA

RUN #	JAR #	TARE WEIGHT(g)		FINAL WEIGHT(g)		TOTAL(g)
A	1	66.1466	66.1470	66.5255	66.5257	.3785
B	2	64.5988	64.5987	65.0287	65.0287	.4299
C	3	70.7028	70.7029	71.1315	71.1313	.4284
DATE/TIME		7/28 PM	7/29 PM	9/10 AM	9/10 PM	

TOTAL WEIGHTS (FILTER AND PROBE & NOZZLE)

RUN #	FILTER FINAL WT(g)	P & N FINAL WT(g)	TOTAL(g)
A	.4804	.3785	.8589
B	.4714	.4299	.9013
C	.4677	.4284	.8961

GRANITE ROCK CO S/T
PLT # 657 S-1
9/4/92

GRAIN LOADING $G_{gr/SDCF} = 15.43 \frac{(W_p)\,g}{(V_o)_{SDCF}}$

$W_{p_A} = 0.8589$

$W_{p_B} = 0.9013$

$W_{p_C} = 0.8961$

$V_{oA} = 20.678$ SDCF

$V_{oB} = 24.459$ SDCF

$V_{oC} = 24.034$ SDCF

$G_A = 15.43 \frac{(0.8589)\,g}{20.678\,SDCF} = 0.641\,gr/SDCF$

$G_B = 15.43 \frac{(0.9013)\,g}{(24.459)\,SDCF} = 0.569\,gr/SDCF$

$G_C = 15.43 \frac{(0.8961)\,g}{(24.034)\,SDCF} = 0.575\,gr/SDCF$

$G_{AVG} = \underline{0.595}\,gr/SDCF$

MASS EMISSIONS (LB/HR) $M_{LB/HR} = \frac{G \cdot Q_{o(SDCF)}}{116.67}$

$Q_o = 29{,}834$ SDCFM

$M_A = \frac{(0.641)(29834)}{116.67} = 164\,LB/HR$

$M_B = \frac{(0.569)(29834)}{116.67} = 145\,LB/HR$

$M_C = \frac{(0.575)(29834)}{116.67} = 147\,LB/HR$

$M_{AVG} = \underline{152}\,LB/HR$

SOURCE TEST LAB DATA SHEET

IMPINGER DATA

PLANT: GRANITE ROCK, SAN JOSE

PAGE: 1 OF 1

SOURCE OPERATION: ASPHALT BAGHOUSE

INITIAL: KC

SOURCE TEST NO.:

TEST DATE: 9/4/92

IMPINGER SOLUTION: DI H2O

DATA

IMPINGER#	A TARE WEIGHT(g)	B FILLED WEIGHT(g)	C FINAL WEIGHT(g)
S-1	515.8	615.3	763.8
S-2	509.2	609.3	647.1
S-3	485.0	584.9	734.8
S-4	492.6	592.2	669.5
S-5	481.2	581.3	821.3
S-6	499.7	599.5	603.9

IMPINGER#	C-A SAMPLE WEIGHT(g)	C-B CONDENSATE WT(g)	TOTAL WEIGHT(g)
P-1	248.0	148.5	RUN A
P-2	137.9	37.8	186.3
P-3	249.8	149.9	RUN B
P-4	176.9	77.3	227.2
P-5	340.1	240.0	RUN C
P-6	104.2	4.4	244.4

ISOKINETIC RATIOS

E.P.A. EQUASION 5-8

$$R_I = \frac{(T_s\ {}^\circ R)(V_{o\ SDCF})(K_I)}{(V_s\ FPS)(100-\%H_2O)(A_n\ FT^2)(t\ MINUTES)(P_s\ "Hg)}$$

$K_I = 9.414 \times 10^{-2}$ AT STANDARD CONDITIONS OF 29.92"Hg & 70°F

$$P_s = P_{BAR} + \left(\frac{P_{STATIC}\ "H_2O}{13.6\ "H_2O/"Hg}\right) = 30.09 + \left(\frac{-.65}{13.6}\right)$$

PLANT: ~~GRANITE ROCK~~ #651
SOURCE: S-1 ASPHALT PLANT
DATE: 9/4/92

$P_s = 30.042$ "Hg t = TIME = 50 MINUTES

$A_n = 8.454 \times 10^{-4} (D_n\ cm)^2\ FT^2$ $D_{n_A} = 3.8\ mm = .38\ cm$

$A_n = 8.454 \times 10^{-4} (.38\ cm)^2\ FT^2$ $D_{n_{B\&C}} = 4.4\ mm = .44\ cm$

$A_{n_A} = 1.221 \times 10^{-4}\ FT^2$ $A_{n_{B\&C}} = 8.454 \times 10^{-4} (.44\ cm)^2\ FT^2$

GROUP TERMS: $A_{n_{B\&C}} = 1.637 \times 10^{-4}\ FT^2$

$$R_I = \frac{(T_s)(V_o)(9.414 \times 10^{-2})}{(V_s)(100-\%H_2O)(A_n)(30.042)(50)} = \frac{(T_s)(V_o)(6.267 \times 10^{-5})}{V_s(100-\%H_2O)(A_n)}$$

RUN A) $T_s = 731°R$ $V_o = 20.678$ SDCF $V_s = 102.81$ $\%H_2O = 30.2$ $100-\%H_2O = 69.8$ $A_{n_A} = 1.221 \times 10^{-4}\ FT^2$

$$R_{I_A} = \frac{(731)(20.678)(\cancel{9.414 \times 10^{-2}}\ 6.267 \times 10^{-5})}{(102.81)(69.8)(1.221 \times 10^{-4})} = 1.081 = \underline{\underline{1.08}}$$

RUN B) $T_s = 732°R$ $V_o = 24.459$ SDCF $V_s = 102.33$ $\%H_2O = 30.9$ $100-\%H_2O = 69.1$ $A_{n_{B\&C}} = 1.637 \times 10^{-4}\ FT^2$

$$R_{I_B} = \frac{(732)(24.459)(6.267 \times 10^{-5})}{(102.33)(69.1)(1.637 \times 10^{-4})} = 0.969 = \underline{\underline{0.97}}$$

RUN C) $T_s = 732°R$ $V_o = 24.034$ SDCF $V_s = 100.85$ $\%H_2O = 32.8$ $100-\%H_2O = 67.2$ $A_{n_{B\&C}} = 1.637 \times 10^{-4}\ FT^2$

$$R_{I_C} = \frac{(732)(24.034)(6.267 \times 10^{-5})}{(100.85)(67.2)(1.637 \times 10^{-4})} = 0.993 = \underline{\underline{0.99}}$$

GAS ANALYSIS — SPAN CYLINDER #17-1597 — GRANITE ROCK CO S/J #657 S-1 9/4/92

GAS	SPAN VALUE	SPAN UNITS
O_2	20.95%	7.63u
CO_2	15.2%	6.95u
CO	1200 PPM	2.75u → FULL SCALE OF 7.52u (AT 200mv SCALE)

RUN A)

O_2	CO_2
4.45	2.34
4.47	2.21
4.45	2.35
4.46u	2.3u

CO: 7.52 ⇒ > 328 PPM

$\frac{20.95\%}{7.63} \propto \frac{X_{O_2}\%}{4.46}$

$\frac{\cancel{1200\,PPM}\ 15.2\%}{\cancel{2.75u}\ 6.95u} \propto \frac{X_{CO_2}\%}{2.3u}$

RUN A
$O_2 = 12.2\%$
$CO_2 = 5.0\%$
CO > 328 PPM

RUN B)

O_2	CO_2
4.54	2.27
4.55	2.28
4.45	2.38
4.40	2.39
4.48u	2.33u

CO: 7.52 ⇒ > 328 PPM

$\frac{20.95\%}{7.63u} \propto \frac{X_{O_2}\%}{4.48u}$

$\frac{15.2\%}{6.95u} \propto \frac{X_{CO_2}\%}{2.33u}$

RUN B
$O_2 = 12.3\%$
$CO_2 = 5.1\%$
CO > 328 PPM

RUN C)

O_2	CO_2
4.18	2.47
4.14	2.44
4.15	2.44
4.13	2.43
4.15u	2.44u

CO: 7.52

$\frac{1200}{\cancel{7.52}\ 2.75} \propto \frac{X}{7.52} \Rightarrow > 328$ PPM

$\frac{20.95\%}{7.63u} \propto \frac{X_{O_2}\%}{4.15u}$

$\frac{15.2\%}{6.95u} \propto \frac{X_{CO_2}\%}{2.44u}$

RUN C
$O_2 = 11.4\%$
$CO_2 = 5.3\%$
CO > 328 PPM

$O_{2\,AVG} = 12.0\%$
$CO_{2\,AVG} = 5.1\%$
CO_2 > 328 PPM

8562

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
939 Ellis Street, San Francisco, Calif. 94109 · 771-6000

Source Test Data Sheet

Source Operation S-1
Plant GRANITE ROCK #651
Sample Type PARTICULATE & COMBUSTION
Process Cycle B/H STACK
Duct Size R-42" + 3.25" PORT
Duct Pressure -.65
ASSUMED H_2O 20%

Source Test No.
Run No. T&A
Date: 9/4/92

I-60 .835 P-44
3.8 mm Nozzle Diameter
P-44 .826 Pitot Tube
VAN #12 Gas Collector No.
30.09 Barometric Pressure
0.003 @ 20 Leak Rate
5 TIME EACH POINT
10 # OF POINTS
50 TIME EACH RUN

DIGI 4376163
MAG GAGE RACK# VR-111 METER(Y)=.99456

Sampling Train: PROBE ⇒ FILTER # 652 ⇒ IMP# S-1 IMP# S-2 ⇒ PUMP# 522 ⇒ METER# 1027581 ⇒ EXH.

Traverse Point	Dist. From PORT inches	INITIAL TRAVERSE Duct Temp °F	ΔP H_2O	Traverse Point	ΔP H_2O	V_s FPS	Time (757)	METER Rate CFH	METER Temp °F	METER Volume Ft^3	Vac "Hg	Sat'd Gas Temp °F	T_s Duct Temp °F	REMARKS
A-1 3.6	4.3	B-1 1.30		B-1	1.45	79.4	5	20.4	67	505.12 / 6.82 / 506.89	7.5	33	252	
2 3.6	6.6	2 1.50		2	1.35	77.5	10	19.4	67	8.51 / 508.48	6	38	268	
3 2.5	9.5	3 1.10		3	1.05	68.5	15	17.1	67	9.91 / 509.95	6	38	271	
4 1.6	12.7	4 .85		4	.77	58.7	20	14.6	68	511.17	5	39	273	
5 1.0	17.6	5 .70		5	.62	52.7	25	13.1	68	10 / 512.26 / 512.33	4.5	40	274	
6 .62	30.8	6 1.90		6	1.90	92.3	30	23.0	68	14.24 / 514.17	8.5	40	275	
7 1.15	35.7	7 3.8		7	3.7	128.8	35	32.1	68	16.84 / 516.75	12.5	40	275	
8 1.60	39.1	8 5.0		8	5.0	149.9	40	37.2	69	19.83 / 519.75	18.0	42	276	
9 2.6	41.8	9 5.3		9	5.0	149.9	45	37.2	69	23.85 / 523.70	18.0	43	276	
10 3.5	44.1	10 5.8		10	4.8	147.9	50	36.5	69	29.74 / 525.72	18.0	42	277	
T_s = 276 2.80									(68.0)	20.60	(10.4)	(39.5)	(271.7)	
#3				250 / 138 / 388 / 200 / 188						Y .99456 / 20.488 ft^3			(731)	

$$D_n = 13.7\left[\frac{T_s + 460}{V_s(100 - \%H_2O)}\right]^{1/2} = 3.8$$

Condensate 188 (g) / V_o 20.678 SCF / 30.1 $\%H_2O$

$$Q_m = \left[(2.638 \times 10^{-3})\ (100 - \%H_2O)\ D_{mm}^2\right]\frac{V_s}{T_s}$$

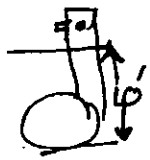
$$V_s = (K)(C_p)\sqrt{T_s\ \Delta P}$$

$$V_o = \frac{17.71(V_m)(P_b)}{T_m\ C_p}$$

$$C_f = \sqrt{(P_b \pm P_s/13.6)\ MW_{1/2}}$$

B-STATION

Source Test Team
CHUCK McCLURE
Source Test Engineer II



POINT	1.1	3.4	6.2	9.5	14.4	27.6	32.5	35.8	38.6	40.9
PORT	4.3	6.6	9.5	12.7	17.6	30.8	35.7	39.1	41.8	44.1

NATL GAS

8023000 @ TIME 0924
8039000 31 min 27 sec 0956
16,000 16,000 ft³ / 31.45 min = 508.7 ft³/min
RH 55%

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
939 Ellis Street, San Francisco, Calif. 94109 • 771-6000

Source Test Data Sheet

Source Operation S-1
Plant ~~GRANITE ROCK~~ UB 62/73
Sample Type ~~PARTICULATE~~ + COMBUSTION
Process Cycle B/# STACK
Duct Size R-42"
Duct Pressure -.65"
ASSUMED H_2O 30%

Source Test No.
Run No. B
Date: 9/4/92

Nozzle Diameter 4.4 mm
Pitot Tube P-44.826
Gas Collector No. MAH#12
Barometric Pressure 30.09
Leak Rate 0.002 @ 20
TIME EACH POINT 5
OF POINTS 10
TIME EACH RUN 50

MAG GAGE RACK #V12-111 METER(Y) = .99456

Sampling Train: PROBE ⇒ FILTER # 653 ⇒ IMP # S-3 IMP # S-4 ⇒ PUMP # 522 ⇒ METER # 1027581 ⇒ EXH.

Traverse Point	Dist. From inches	INITIAL TRAVERSE Duct Temp °F	ΔP "H_2O		SAMPLING Traverse Point	ΔP "H_2O	V_s FPS	0909 Time	METER Rate CFH	Temp °F	Volume Ft³	Vac "Hg	Sat'd Gas Temp °F	T_s Duct Temp °F	REMARKS
								0			525.94				
					A-1	3.9	129.1	5	39.6	69	29.24 529.20	18	31	240	
					2	3.5	125.3	10	36.6	69	32.25 532.15	18	41	274	
					3	2.5	106.1	15	30.9	69	34.42 534.91	15.5	41	277	
					4	1.85	91.2	20	26.6	69	37.12 537.21	11	40	276	
					5	1.35	77.9	25	22.7	69	39.18 539.16	8.5	40	276	
					6	1.15	71.8	30	21.0	69	40.91 540.95	8	40	274	
					7	1.70	87.2	35	25.5	69	43.08 543.00	9.5	41	272	
					8	1.40	79.4	40	23.1	70	44.92 547.87	9	41	277	
					9	2.4	103.9	45	30.2	70	47.39 547.40	14	41	277	
					10	3.5	125.5	50	36.5	70	50.44 550.41	18	42	277	
							0959			69.3	24.47 × .99456	12.9	39.8	272	
										529	24.337			732	

ΔP = 2.0
T_s = 280

$$D_n = 13.7\left[\frac{T_s + 460}{V_s(100 - \%H_2O)}\right]^{1/2} = 4.56\text{mm}$$

740 / 95.9 / 70

Condensate 228 (g)
V_o 24.459 SCF
$\%H_2O$ 30.6

$$Q_m = \left[(2.638 \times 10^{-3})\ (100 - \%H_2O)\ D_{mm}^2\ \frac{V_s}{T_s}\right]$$

70

$$V_s = (K)(C_p)\sqrt{\frac{T_s \cdot \Delta P''}{P_s}}$$

$$V_o = \frac{17.71(V_m)(P_b \pm \frac{P_g}{13.6})}{T_m + 460}$$

529 — 24.337 — 30.0 — 24.459 SCF — 85.49 — $(P_b \pm \frac{P_g}{13.6})$ MW

N ← A, B

MAHAR

B-STATION

Source Test Team
CHUCK McCLURE
Source Test Engineer II

4.00 P

250
178
428
− 200
228

225
8.25

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
939 Ellis Street, San Francisco, Calif. 94109 • 771-6000

Source Test Data Sheet

Source Operation: S-1
Plant: GRANITE ROCK #651
Sample Type: PARTICULATE & CONDUCTION
Process Cycle: BAGHOUSE STACK
Duct Size: 12-42"
Duct Pressure: -.65
ASSUMED H_2O: 38%

Source Test No.:
Run No.: C
Date: 9/4/92

4.4 mm Nozzle Diameter
P-44 .826 Pitot Tube
VAN #12 Gas Collector No.
30.09 Barometric Pressure
0.003 at 20 Leak Rate
5 TIME EACH POINT
10 # OF POINTS
50 TIME EACH RUN

MAG GAGE RACK # V12-111 METER(γ) = .99456

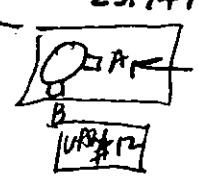
Sampling Train: PROBE ⇒ FILTER # 654 ⇒ IMP# S-5 IMP# S-6 ⇒ PUMP# #522 ⇒ METER# 1027581 ⇒ EXH.

Traverse Point	Dist. From ___ inches	INITIAL TRAVERSE Duct Temp °F	INITIAL TRAVERSE ΔP H_2O		SAMPLING Traverse Point	ΔP H_2O	V_s FPS	(1014) Time	METER Rate CFH	METER Temp °F	METER Volume Ft^3	Vac "Hg	Sat'd Gas Temp °F	T_s Duct Temp °F	REMARKS
								0			550.63				
					A-1	3.6	123.1	5	38.3	71	53.82 553.99	18	35	229	
					2	2.9	114.3	10	33.2	71	56.76 556.68	12	41	278	
					3	2.4	104.0	15	30.2	71	59.19 559.26	9	41	278	
					4	1.85	91.3	20	26.5	71	61.47 561.38	8.5	41	278	
					5	1.35	77.9	25	22.7	71	63.27 563.30	9	41	276	
					6	.95	65.4	30	19.0	72	64.88 564.91	7	41	278	
					7	1.25	75.0	35	21.8	72	66.73 566.73	8	40	276	
					8	2.1	97.2	40	28.3	72	69.09 569.00	10	41	276	
					9	2.6	108.3	45	31.4	72	71.62 571.68	14	41	279	
					10	3.3	122.0	(1104) 50	35.4	72	74.63 574.71	18	41	279	
										71.5	24.08	11.3	40.3	272.7	
										531	Y .99456			732	
											23.949 ft^3				

$$D_n = 13.7\left[\frac{T_s + 460}{V_s(100-\%H_2O)}\right]^{1/2}$$

$$Q_m = \left[(2.638 \times 10^{-3})\ (100-\%H_2O)\,D_{mm}^2\right]\frac{V_s}{T_s}$$

Condensate (g) N ←
V_o SCF
$\%H_2O$



B-SITUATION
Source Test Team
CHUCK McCLURE
Source Test Engineer II
H. DOE

$$V_s = (K)(C_p)\sqrt{T_s \cdot \Delta P''}$$

$$K = \frac{85.49}{\sqrt{(P_b \pm \frac{P_d}{P_s})\,MW}}$$

$$V_o = \frac{17.71\,(V_m)(P_b)}{\cancel{I_m}\ R} = 24.034\ SCF$$

23.949 30.09 531

PLANT: #651

DATE: 9/4/92

ADDRESS: GRANITE ROCK WAY

OPERATOR: DOUG / DENNIS MITCHELL & OVERRATOR

PLANT #: GRANITEROCK

1) What are you producting: 1/4", 1/2", 3/4"

2) What rate are you producing at: 350 Tons/Hour - Average

3) What is your maximum rate of production: Tons/Hour

4) How much will you produce today: 1575 Tons-Average

5) What type of fuel are you burning:

6) What is your rate of fuel useage:

7) What is your baghouse inlet temperature averaging:

8) What is your baghouse differential pressure: 3.8 "H_2O

9) What is the mositure content of the agregate: % H_2O

10) Are there any abnormal conditions in the plant today: NO

Thank You

PLANT#
651

Granite Rock Company
110 Granite Rock Wy
San Jose, CA 95136

Sources:

1 HOT MIX PLANT
2 AGGREGATE STOCKPILE
3 ENCLOSED HOT MIX STORAGE BIN & ELEVATOR
4 ENCLOSED HOT MIX STORAGE BIN & ELEVATOR
5 HOT MIX STORAGE BIN
6 ASPHALT TANK
7 ASPHALT TANK
8 EMULSIFIED ASPHALT TANK
9 CONVEYORS
10 Recycle Crusher Plant
11 Recycle Screen
12 Recycle Conveyor System Stockpile
13 Unitized Concrete Batcher
14 Cement Silo

Abatement Devices:

1 BAG HOUSE
10 Recycle Crusher Water Spray
11 Recycle Screen`s Water Spray
12 Water Spray System
13 Fabric Filter - Batcher
14 Fabric Filter - Loadout
15 Stacker Water Spray (for unloading)
16 Water Spray (Concrete Loadout)
17 Fabric Filter - Silo

Emission Points:

1 train: ,A1,/,
2 train: ,A17,/

BAY AREA
AIR QUALITY MANAGEMENT DISTRICT

Interoffice Memorandum

September 15, 1992

TO: Tony Gambardella, Enforcement Division

VIA: Dario Levaggi, Director of Technical Services

FROM: Gale Karels, Source Test Manager GK

SUBJECT: Recommendation for Violation Notice; c/o

GRANITE ROCK COMPANY - SAN JOSE (PLANT # 651)

Reference:

Source Test Number(s): 93033

The referenced document shows:

EXCESS PARTICULATE EMISSIONS

It is therefore recommended that a Violation Notice be issued pursuant to

Regulation 10, Subpart I

on

September 4, 1992.

[X] Please send Source Test Letter

[ ] Please **DO NOT** send Source Test Letter

GK:kc