SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT
800 Madison Street - Lake Merritt Station
P.O. Box 12688
Oakland, CA 94604-2688
Telephone (510) 464-6000

0292

October 30, 2002
SD-02-0337

Alameda County
NOV 07 2002
Environmental Health

Mr. Barney Chan
Hazardous Materials Specialist
Alameda County Health Care Services Agency
Environmental Health Division
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Subject: ***Work Plan for Former Union Pacific Railroad Site at BART Fruitvale Station, Oakland, CA 94601.***

Dear Mr. Chan:

The work on the above-mentioned site is entering its final stage. Work is beginning on the construction of a five-story parking structure. Part of this work will involve the handling, disposal, reuse, and capping of contaminated soil associated with the former Union Pacific Railroad right-of-way.

Enclosed for your information is a copy of the Health and Safety Plan prepared by our contractor, Overaa Construction. If you have any comments on this document, please forward them to me and I will take the appropriate action.

I have one issue regarding your letter dated September 11, 2000. In that letter you approved our work plan and provided "recommended" levels for the contaminants in the soil we intended to reuse on-site. Unfortunately, the arsenic levels across our site average 36 PPM and range up to 120 PPM, in excess of the 19 PPM level recommended in your letter. BART would like to be able to reuse arsenic contaminated on-site containing up to 120 PPM of arsenic. Area B

The reuse of this soil on-site is reasonable due to the following factors:

1) The soil will be completely covered by concrete. There will be no exposure to people or the environment.

2) Testing has shown that the contaminants have not impacted groundwater, and

3) The property will carry a deed restriction preventing a change in land use without the approval of your offices.

I have attached the latest sample results of the soil stockpiled for potential reuse. In addition, soil from Areas A and B from BART's initial soil characterization may be reused during this phase of the construction. Note that

all the samples containing lead at a concentration greater than 400 PPM will be disposed of off-site at an appropriate facility.

Please let me know if you have any objection to BART's use of this arsenic impacted soil under our paved parking/ramps. You can reach me at (510) 464-7659.

(650) 689-8439

Sincerely,

(510) 899-2006 pager

Gary C. Jensen
Principal Engineer
Environmental Compliance Division

Q.
Is the attached table all the spoils results? where is the 120ppm As? B1 B2 120 but < STLC by WET test (2.4)

How much soil does this represent? ~1000 cy

How much soil will be used beneath ramp? 1800 cy

Randy Lee Sp w/ Roger Brewer
Cal Trans site w/ Similar reuse (under a ramp) 130 construction worker
8-27
27-130 Encapsulate
Ok for exposure to surface

Table 2
Summary of Inorganic Soil Analytical Results
Stockpile Sampling
BART Fruitvale Station
Oakland, CA

SAMPLE INFORMATION			METALS (EPA 6010B)															MERCURY (EPA 7471A)
			ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CHROMIUM	COBALT	COPPER	LEAD	MOLYBDENUM	NICKEL	SELENIUM	SILVER	THALLIUM	VANADIUM	ZINC	MERCURY
SAMPLE ID	SAMPLE DEPTH	SAMPLE DATE	SAMPLE RESULTS (mg/kg)																
SP-1 (A-D)	1.5'	8/15/02	ND < 1.4	32	190	ND < 0.84	3.5	50	10	97	68	8.9	66	71	ND <0.29	ND < 2.7	53	210	0.5
SP-2 (A-D)	1.5'	8/15/02	ND < 1.4	24	200	ND < 0.83	3.3	47	11	81	67	0.72	63	69	ND <0.28	ND < 2.6	40	240	0.41
SP-3 (A-D)	1.5'	8/15/02	ND < 1.4	33	210	ND < 0.83	3.6	55	11	58	83	0.6	77	91	ND <0.29	ND < 2.6	44	250	0.48
SP-4 (A-D)	1.5'	8/15/02	ND < 1.4	43	200	ND < 0.83	3.6	51	10	56	85	0.64	68	82	ND <0.28	4.6	46	270	0.5
SP-5 (A-D)	1.5'	8/15/02	ND < 1.4	59	270	ND < 0.83	5.3	58	12	1700	760	9.1	79	86	ND <0.28	ND < 2.6	53	510	0.5
SP-6 (A-D)	1.5'	8/15/02	ND < 1.4	26	210	ND < 0.83	3.9	69	11	110	240	5.4	83	78	ND <0.28	3	54	320	0.49
SP-5A	4'	9/17/02	54	35	200	ND < 0.84	3.9	53	9.3	63	17000	ND <0.24	70	ND <0.78	13	2.9	48	330	0.59
SP-5A	6'	9/17/02	ND < 1.4	88	210	ND < 0.84	4	50	12	68	300	2.9	68	56	4.7	ND <2.7	41	460	0.52
SP-5B	4'	9/17/02	ND < 1.4	28	200	ND < 0.84	4.1	63	10	77	100	ND < 0.24	79	ND < 0.78	4.4	ND <2.7	52	250	0.48
SP-5B	6'	9/17/02	ND < 1.4	18	190	ND < 0.84	4	60	9.6	58	110	ND < 0.24	71	ND < 0.78	4.1	ND <2.7	47	260	0.83
SP-6A	4'	9/17/02	ND < 1.4	36	210	ND < 0.84	3.8	62	12	1.7	85	ND < 0.24	90	ND < 0.78	4.2	5.3	51	250	0.39
SP-6A	6'	9/17/02	ND < 1.4	17	210	ND < 0.84	4.3	75	ND < 0.18	56	120	ND < 0.24	99	ND < 0.78	3.1	ND <2.7	47	210	0.57
SP-6B	4'	9/17/02	75	22	270	ND < 0.84	5.2	57	9.5	200	790	0.54	72	ND < 0.78	4.8	ND <2.7	57	640	0.72
SP-6B	6'	9/17/02	57	40	200	ND < 0.84	3.5	62	11	35	43	0.59	83	ND < 0.78	3.8	ND <2.7	47	140	0.42

Notes:
mg/kg = milligrams per kilogram
ND < 50 = Not detected at concentration greater than or equal to the laboratory reporting limit