



August 22, 2000

Mr. Barney Chan
Hazardous Material Specialist
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94602-6577

Subject: Second Letter Addendum to Workplan for Screening Level Soil and
Groundwater Sampling (Dated July 17, 2000)
Former Union Pacific Railroad Site
CDM Project No.: 8245-28614-WD21

ENVIRONMENTAL
PROTECTION
00 AUG 23 PM 2:48

Dear Mr. Chan:

Camp Dresser & McKee Inc. (CDM) is pleased to present this second letter addendum to address changes to the *Workplan for Screening Level Soil and Groundwater Sampling*, dated July 17, 2000. This letter updates and supercedes CDM's first letter addendum, dated August 9, 2000.

The original Workplan was submitted to the Alameda County Health Care Services Agency (County) on July 17, 2000. It detailed the scope to perform additional soil and groundwater sampling within the former railroad right-of-way adjacent to the existing Fruitvale Station Intermodal Project in Oakland, California (refer to Figure 1, Site Location Map).

Changes in the scope to the Workplan are based on comments from County during a meeting with CDM, the San Francisco Bay Area Rapid Transit District (BART), and the Regional Water Quality Control on August 2, 2000 and additional comments from the County to CDM on August 21, 2000. The new soil and groundwater sampling locations will be based on "hot spot" locations identified by Applied Remedial Services, Inc. (ARS) as presented in their *Limited Phase II Environmental Site Assessment Report*, dated July 8, 1999 (refer to Figure 2, ARS's Test Pit Locations) and CDM's *Revised Final In-Situ Soil Characterization Report*, dated May 30, 2000. Specifically, the change in scope from Workplan's original 15 soil and four groundwater sample locations is presented below:

- Total of six soil sample locations will be located at former ARS locations. Specifically, sample locations S1, S2, and S3 will be located at adjacent to the former ARS Pit 7, 12, and 17/18 locations, respectively. The remaining three soil locations S4, S5, and S6 will be randomly distributed across the site (refer to Figures 3a and 3b, Sample Location Map). Soil samples will be collected at depths of 1 and 3 feet below ground surface (bgs).

Mr. Barney Chan
August 22, 2000
Page 2

- Total of four groundwater sample locations will be located at former ARS and CDM locations. Specifically, sample locations GW1, GW2, and GW3 will be located adjacent to former ARS Pit 7, 12, and 17/18 locations, respectively. In addition, sample location GW4 will be located adjacent to former CDM D1/D2 location. The drill rig will be advanced to a maximum depth of 30 feet bgs to collect to groundwater samples. If groundwater is not encountered with the 30 feet bgs, no groundwater samples will be collected.
- All soil and groundwater samples will be analyzed for the proposed analytes presented in Section 3 of the Workplan, as summarized in Table 1, Sample Collection Schedule and Laboratory Analyses.

Following your approval of the Workplan and the changes, CDM is prepared to commence field sampling within two weeks of authorization.

Please contact Michael Gray at (925) 933-2900 if you have any questions regarding this Workplan or the project.

Very truly yours,

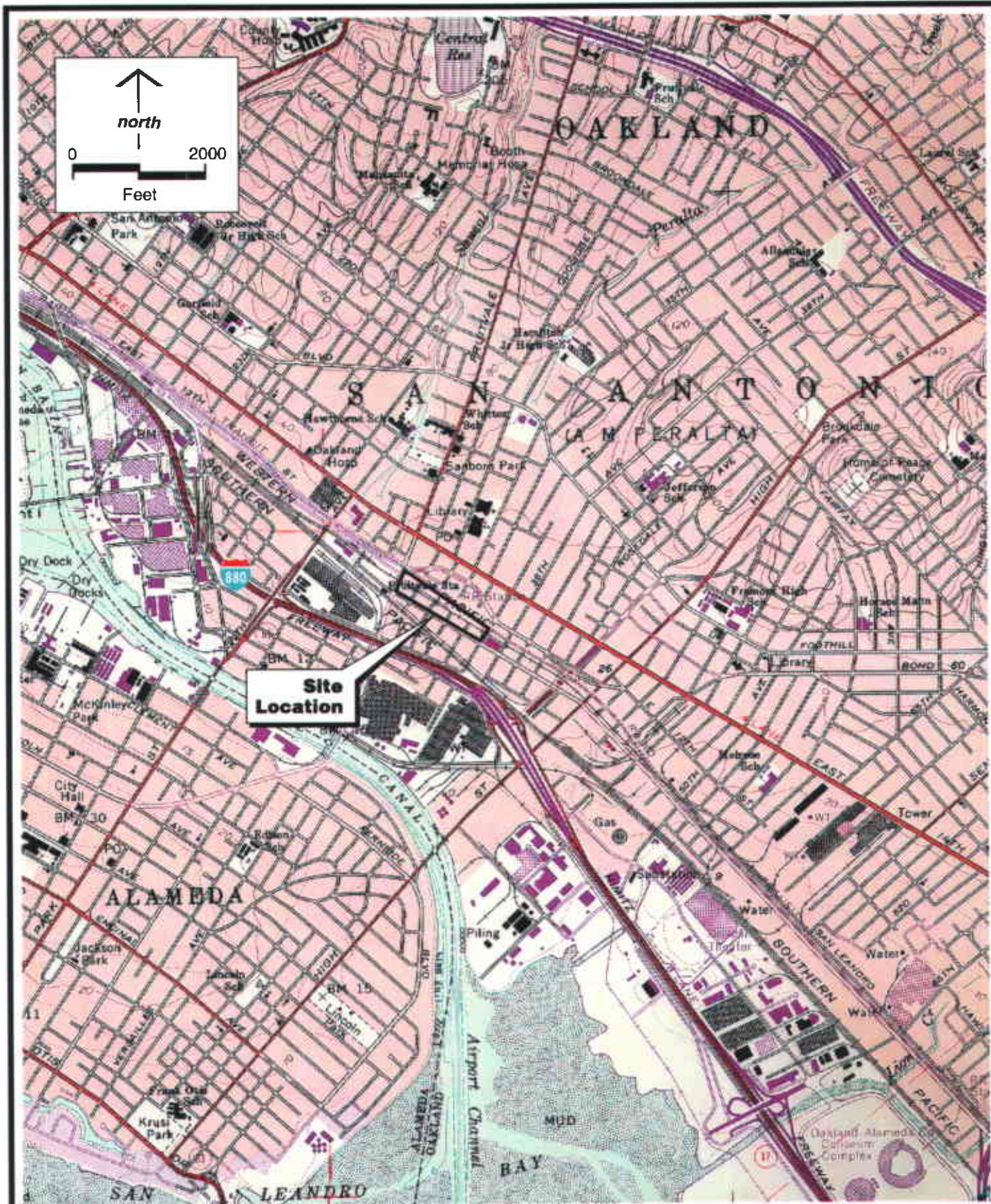
CAMP DRESSER & McKEE INC.



Michael G. Gray, R.G., C.E.G.
Work Directive Manager

cc: Gary Jensen, BART
Janie Layton, BART
Jeff Ordway, BART
Bob Engle, BART
Ravi Arulanantham, RWQCB

Attachment

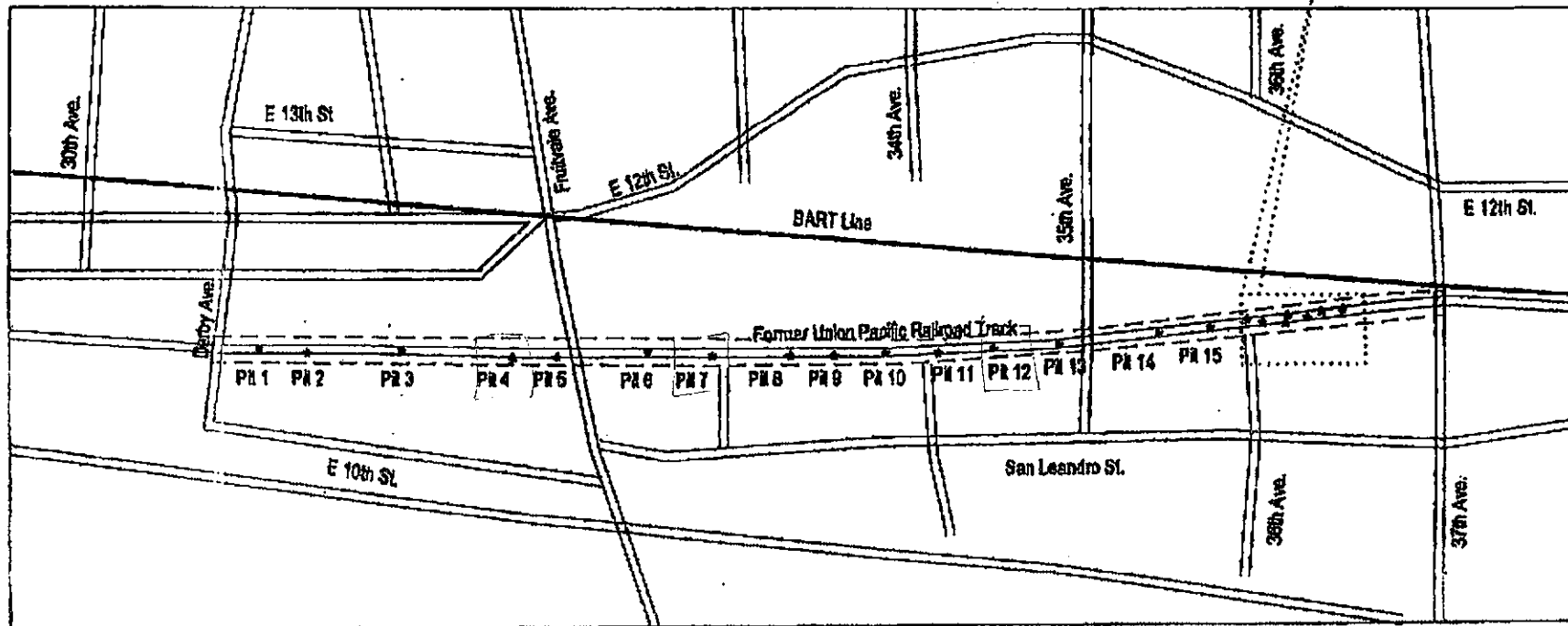
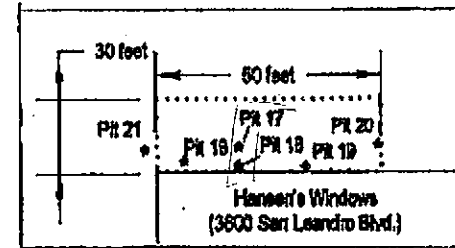


Source: USGS 7.5' Quad Map, Oakland East, Calif. (1990)

Site Location Map
Screening Level Soil and Groundwater Sampling Workplan
BART Fruitvale Station
Oakland, CA

CDM
*environmental engineers, scientists,
 planners, & management consultants*

Figure 1



□ Approximate area surrounding Union Pacific Railroad Track

• Approximate Test Pit Location

ARS, INC
 Applied Remedial Services, Inc.
 701 Southparkway Rd., Suite 103
 Berkeley, CA 94710

Figure 2

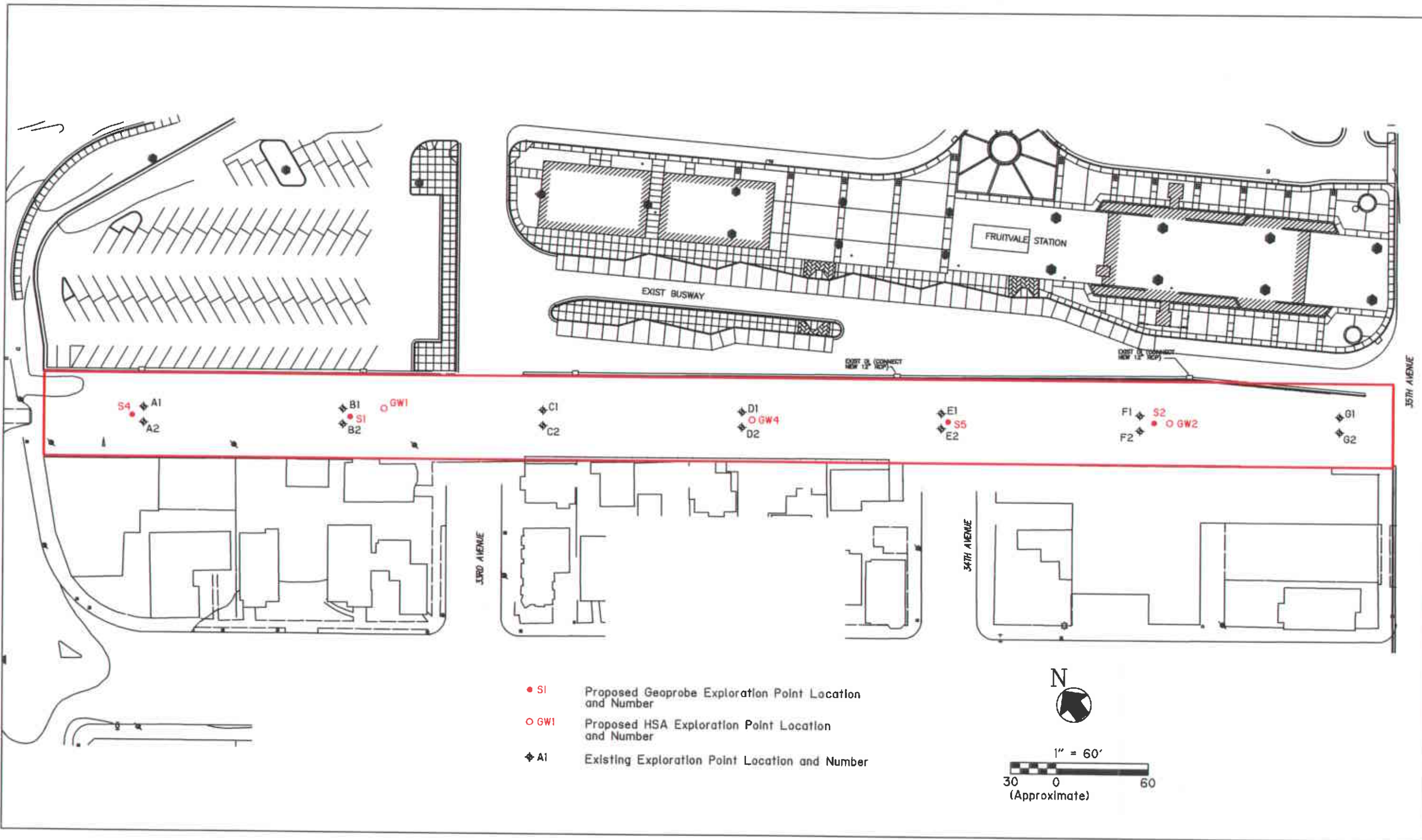
Date: July 8, 1999

Project #: ARS-99-269

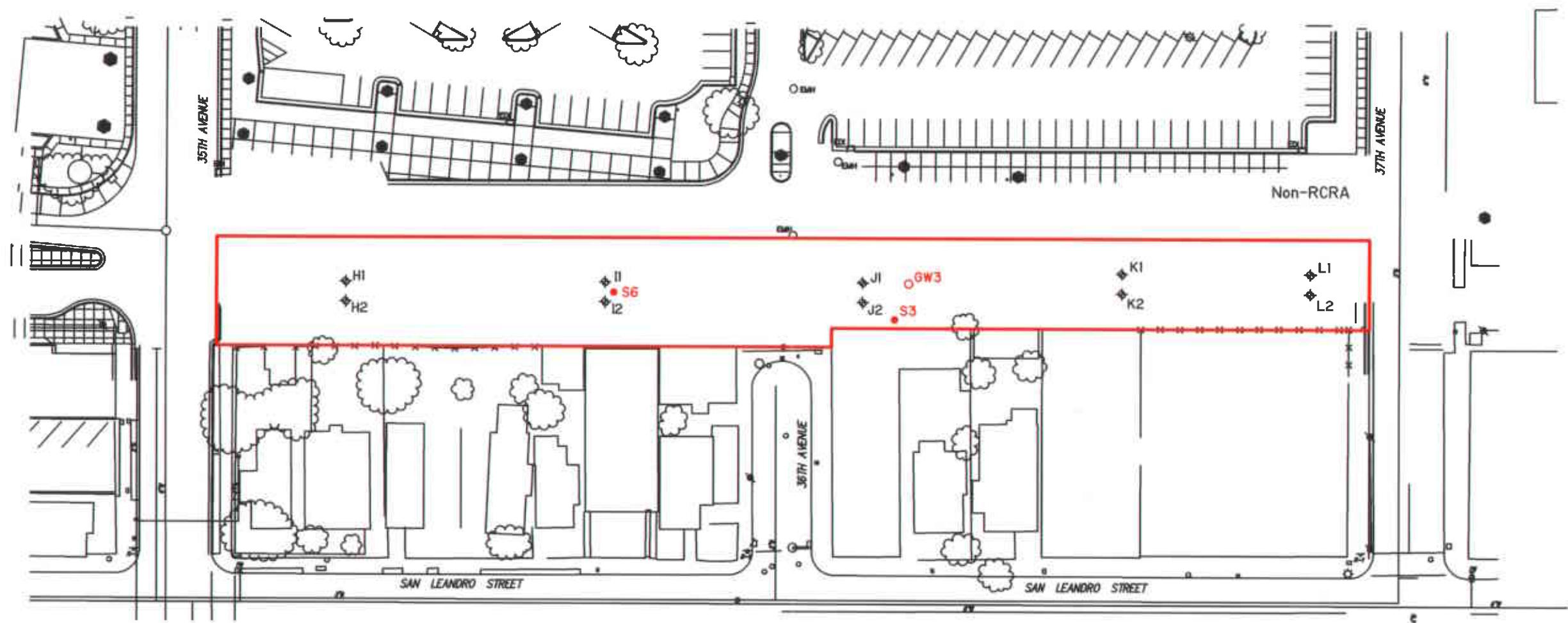
Test Pits Locations

Union Pacific Railroad - Fruitvale BART Transit Village
 Oakland, California

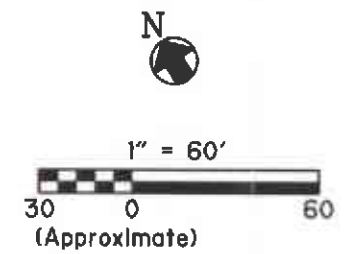
N:\ACAD\8245\24097\To16\ CT7A 08/22/00 10:02 Moraep



Sample Location Map
 Fruitvale Avenue to 35th Avenue
 BART Fruitvale Station
 Oakland, CA



- S1 Proposed Geoprobe Exploration Point Location and Number
- GW1 Proposed HSA Exploration Point Location and Number
- ◆ A1 Existing Exploration Point Location and Number



Sample Location Map

35th Avenue to 37th Avenue
BART Fruitvale Station
Oakland, CA

Table 1
Sample Collection Schedule and Laboratory Analyses
Letter Addendum to Workplan
BART Fruitvale Station
Oakland, CA

Matrix	Exploration	Sample	Sample	VOCs	SVOCs	TPH mo, d	TPH gas	BTEX/MTBE	CAM 17	Title 22 Metals
	Point	Depth (ft bgs)	ID	8260	8270	8015M	8015	8015	6010B / 7471	6010B/7471
Soil	S1	1.0	S1 - 1.0	X	X	X	X	X	X	
	S1	3.0	S1 - 3.0	X	X	X	X	X	X	
	S2	1.0	S2 - 1.0	X	X	X	X	X	X	
	S2	3.0	S2 - 3.0	X	X	X	X	X	X	
	S3	1.0	S3 - 1.0	X	X	X	X	X	X	
	S3	3.0	S3 - 3.0	X	X	X	X	X	X	
	S4	1.0	S4 - 1.0	X	X	X	X	X	X	
	S4	3.0	S4 - 3.0	X	X	X	X	X	X	
	S5	1.0	S5 - 1.0	X	X	X	X	X	X	
	S5	3.0	S5 - 3.0	X	X	X	X	X	X	
	S6	1.0	S6 - 1.0	X	X	X	X	X	X	
	S6	3.0	S6 - 3.0	X	X	X	X	X	X	
Groundwater	GW1	down to 30	GW1	X	X	X	X	X	X	X
	GW2	down to 30	GW2	X	X	X	X	X	X	X
	GW3	down to 30	GW3	X	X	X	X	X	X	X
	GW4	down to 30	GW4	X	X	X	X	X	X	X

Notes:

ft bgs = feet below ground surface
ID = identification
VOCs = volatile organic compounds
SVOCs = semivolatile organic compounds
TPH mo = total petroleum hydrocarbons as motor oil

TPH d = total petroleum hydrocarbons as diesel
BTEX = benzene, toluene, ethylbenzene, and total xylenes
MTBE = methyl tertiary-butyl ether
CAM 17 = California Assessment Manual for 17 metals