

J RO 438

Alameda County
DEC 13 2004
Environmental Health

April 30, 2004

Project: FA03

Amir K. Gholami, REHS
Hazardous Materials Specialist
Alameda County Health Care Services
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: *Site Conceptual Model and
Work Plan for Additional Site Assessment*
Former Firestone Tire Facility
265 30th Street
Oakland, California

Dear Mr. Gholami:

This letter, prepared by RRM, Inc. (RRM) on behalf of Mr. Warren Hagstrom of Hagstrom Properties, LLC, presents a site conceptual model and a work plan to further assess soil and groundwater quality beneath the Former Firestone Tire Facility located at 265 30th Street in Oakland, California (Figure 1).

This letter was prepared in response to a telephone conversation with Alameda County Health Care Services (ACHCS) staff on February 17, 2004 and subsequent email requesting additional information and a work plan to close recognized data gaps necessary to obtain site closure. This letter includes a discussion of the site history, a site conceptual model, and a work plan as requested by the ACHCS to help develop a complete understanding of the site conditions and evaluate potential impacts due to petroleum hydrocarbon contamination previously detected at the site.

To further characterize subsurface conditions, this work plan proposes the installation of five exploratory borings for soil and groundwater sample collection. The proposed scope of work is presented below.

SITE HISTORY

TAC Environmental Services removed two 8,000-gallon underground storage tanks (USTs) from beneath the sidewalk on the south side of 30th Street in December 1995. The location of the former USTs is shown on Figure 2. The USTs were of steel construction and upon removal and inspection both tanks had some visible corrosion but neither tank appeared to have holes. The USTs were used for fuel distribution but the contents are unknown. Upon removal, four soil samples (S-1 through S-4) were collected from beneath the tanks at approximately 13 feet below ground surface (bgs). Approximately 320 cubic yards of soil associated with the UST pull was stockpiled on-site and an additional 35 cubic yards of visually impacted soil was over-excavated, for a total of 355 cubic yards. Excavated soils were profiled and segregated into impacted and clean stockpiles on site. Impacted soils were sent to an appropriate landfill and clean soils were used on site. After soil over-excavation work was completed, two additional soil samples (S-5 and S-6) were collected from the UST pit bottom at approximately 16 feet bgs. It was reported that some visually impacted soil was left in place along the northern excavation sidewall adjacent to 30th Street to keep the street from caving into the pit and protect underground utilities. Soil analytical results are shown on Table 1. Following completion of tank removal and over-excavation activities, the UST excavation was backfilled with 5 to 6 feet of imported ¾-inch drain rock, and then class 2 baserock to the ground surface.

PREVIOUS INVESTIGATIONS

Descriptions of previous site activities are presented below. Site features and soil boring locations are shown on Figure 2. Historical soil and groundwater analytical data are summarized in Tables 1 and 2.

Soil and Groundwater Investigation, September 1999. The investigation was requested by the ACHCS in a letter dated April 4, 1996 in response to petroleum hydrocarbon contamination identified during the UST removal activities. Compliance & Closure, Inc. submitted a work plan on May 2, 1996 and the ACHCS approved the work plan in a letter dated August 3, 1999.

On September 17, 1999, RRM installed two Geoprobe® soil borings, designated B-1 and B-2, near the former UST complex. Soil and groundwater analytical results from this investigation are shown on Table 1 and 2, respectively. RRM documented the results in a *Soil and Groundwater Investigation Report* dated October 6, 1999. Based on the results of the investigation, RRM recommended site case closure. In a letter from ACHCS dated January 19, 2000, the report was approved although requested site case closure was not granted. A ½-mile radius well survey report and case closure summary were submitted on June 30, 2003.

½-Mile Radius Well Survey, June 2003. A well survey was completed to identify potential sensitive groundwater receptors by locating all documented existing and destroyed water supply wells within a ½-mile radius of the site. The only well identified was an irrigation well located approximately 6,800 feet northeast of the site (Figure 1).

SITE CONCEPTUAL MODEL

The site conceptual model is a representation of physical site conditions, as well as the release, fate, and transport mechanisms that resulted in the current composition, magnitude and distribution of the contamination at the Former Firestone Tire Facility site. It allows assessment of the existing and possible future risk to public health and the environment. The site conceptual model is broken down into the following three sections: Physical Site Conditions; Composition, Distribution and Magnitude of Soil and Groundwater Contamination; and Data Gaps.

Physical Site Conditions

Location. The Former Firestone Tire Facility site is located at 265 30th Street in Oakland, Alameda County, California. Land use in the immediate site vicinity is light industrial and residential.

Local Surface Water. The closest surface water body is Glen Echo Creek, located approximately 250 feet east of the site. Lake Merritt is located approximately 3,000 feet south of the site and San Francisco Bay is located approximately 3 miles west of the site.

Local Geology. The Former Firestone Tire Facility is situated upon recent, alluvial fan deposits consisting of unconsolidated clay, silt, and sand. At borings B-1 and B-2, RRM encountered sediments generally consisting of silty clay. The sediment types beneath the Former Firestone Tire Facility site are depicted in geologic cross-section A-A' (Figure 3) and on the logs for borings B-1 and B-2 included in Attachment A.

Local Groundwater. Shallow groundwater has been encountered beneath the site at a depth of approximately 6.5 feet bgs. Based on local topography and nearby surface drainages shallow groundwater is expected to flow to the south-southeast, toward Glen Echo Creek.

Well Survey. The Department of Water Resources (DWR) was contacted by RRM in order to provide well completion information for wells located within a ½-mile radius of the site. The only water supply well identified is located at 5000 Piedmont Street in Oakland, shown on Figure 1. The well was identified as an irrigation well and located approximately 6,800 feet northeast of the site.

Composition, Distribution and Magnitude of Soil and Groundwater Contamination

Constituents Detected in Soil and Groundwater. Soil and grab-groundwater samples collected from beneath the study area have been chemically analyzed for gasoline range total petroleum hydrocarbons (TPHg) by EPA Method 8015M, and for benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl tert butyl ether (MtBE) using EPA Method 8020. TPHg and BTEX have been detected in soil samples. TPHg, BTEX, and MtBE have been detected in grab-groundwater samples.

Source of Petroleum Hydrocarbons. Gasoline range petroleum hydrocarbons have been detected in soil samples from the subject site. Soil samples collected from subject site's UST excavation bottom contained petroleum hydrocarbons. The UST pit was over-excavated to non-detect levels of petroleum hydrocarbons. Evidence of petroleum hydrocarbon contamination along the eastern

sidewall of the UST excavation was noted; however, due to the proximity to 30th Street, over-excavation of this portion was not possible. Since no samples were collected from this area prior to backfilling the excavation, the amount of source area petroleum hydrocarbons left in place is not quantifiable. The evidence suggests that the Former Firestone Tire Facility USTs were the primary source of petroleum hydrocarbons and MtBE beneath the southeastern portion of the site.

The site formerly contained one 8,000-gallon fuel oil/diesel UST and one 8,000-gallon gasoline UST. The USTs were removed by TAC Environmental Services in December 1995 and were reported to be in good condition. As presented in RRM's *Soil and Groundwater Investigation Report* dated October 26, 1999, the results of subsurface investigation work performed at the site suggest that residual petroleum hydrocarbons from former fueling activities have impacted shallow groundwater.

TPHg, benzene, and MtBE concentrations were detected in grab-groundwater samples collected from borings B-1 and B-2 located adjacent to the former USTs. Groundwater samples were analyzed for MtBE by EPA Method 8020, therefore the reported concentrations of MtBE may be the result of gasoline range petroleum hydrocarbons in the samples.

Distribution and Magnitude of Petroleum Hydrocarbons in Soil. The distribution and magnitude of petroleum hydrocarbons at the subject site is characterized by data for six soil excavation samples (S-1 through S-6) and two direct push borings (B-1 and B-2). Soil analytical data is presented in Table 1.

Figures 3 and 4 show the distribution of TPHg and benzene in shallow soil at the site. Figure 3 was prepared using soil data collected after the UST over-excavation in 1995 and the site investigation performed in 1999. Figure 4 includes data collected prior to over-excavation. Elevated concentrations of TPHg existed in shallow soil beneath the former USTs indicated by analytical results from soil samples S-1 and S-3 (Figure 4). As shown on Figures 3 and 4, the UST area was over-excavated until non-detect levels of petroleum hydrocarbons were reached beneath the former USTs. It was reported that some visually impacted soil was left in place along the northern excavation sidewall adjacent to 30th Street to keep the street from caving into the pit and protect underground utilities.

Direct-push soil borings B-1 and B-2 were advanced at site on September 17, 1999. Seven soil samples were collected from these borings. TPHg, BTEX, and MtBE were not detected in any of the soil samples collected from borings B-1 and B-2. Table 1 summarizes the analytical results for the above mentioned soil samples.

Distribution and Magnitude of Petroleum Hydrocarbons in Groundwater. The distribution and magnitude of TPHg, benzene, and MtBE in groundwater at the Former Firestone Tire Facility site is characterized by data for 2 direct push boring samples (Table 2).

As seen on Figure 5, dissolved TPHg concentrations appear to exist in groundwater at Former Firestone Tire Facility Site. TPHg was detected at concentrations of 2,900 parts per billion (ppb) and 110 ppb in the grab-groundwater samples collected from borings B- and B-2, respectively.

Mr. Amir K. Gholami
County of Alameda
April 30, 2004

As seen on Figure 5, dissolved benzene exist in groundwater at the site. Benzene was detected at a maximum concentration of 1.1 ppb in the sample from Boring B-1.

Dissolved MtBE was detected in the grab-groundwater samples collected from borings B-1 and B-2 at concentrations of 5.2 ppb and 7.1 ppb, respectively. It should be noted that the samples were analyzed for MtBE by EPA Method 8020; therefore the detections of MtBE may be false positive results due to the presence of TPHg in these samples.

Data Gaps

The extent of petroleum hydrocarbons in soil at the site has been adequately defined. However, the extent of dissolved petroleum hydrocarbons, including MtBE, in groundwater has not been adequately defined. Additionally, the detections of MtBE in groundwater samples collected from the site have not been confirmed by EPA Method 8260B.

PROPOSED SCOPE OF WORK

The following scope of work is proposed to further assess soil and groundwater quality beneath the site. An inferred south-southeast direction of groundwater flow was assumed in selecting the boring locations shown on Figure 6.

Tasks necessary to complete the scope of work are described below.

Task 1. Prefield Activities

The appropriate boring permits will be obtained from the Alameda County Public Works Agency. Prior to field activities, the proposed boring locations will be marked and Underground Service Alert will be notified for underground utility clearance. A site-specific health and safety plan will be reviewed and a job safety assessment will be prepared.

Task 2. Exploratory Borings and Soil and Groundwater Sampling

The five exploratory borings will be installed using direct push drilling equipment at the locations shown on Figure 6. The total depth of each boring will be between 10 feet 20 feet below ground surface or up to 10 feet below first encountered groundwater.

Soil samples from the exploratory borings and well borings will be preserved for possible chemical analyses at 5-foot depth intervals and/or at changes in lithology, or within soil zones obviously affected by petroleum hydrocarbons. Soil samples will be collected continuously to provide detailed lithologic information. Soil samples for chemical analyses will be collected in brass or acetate liners and capped with Teflon sheeting and plastic end caps and placed in resealable plastic bags. Field screening grab soil samples using a photo-ionization detector will be performed to facilitate which samples will be submitted for laboratory analyses. The liners will then be stored in iced coolers and transported to a State-certified laboratory under chain-of-custody documentation. It is anticipated that one soil sample from each boring will be submitted for chemical analysis.

Grab-groundwater samples will be collected from each of the five exploratory borings using Hydropunch® sampling equipment. The sampling equipment will be advanced several feet into the first encountered water-bearing zone. Groundwater samples will be collected using disposable bailers and preserved in appropriate EPA-approved containers. The samples will be labeled, logged onto chain-of-custody documents, and transported on ice to the laboratory. Following completion of grab-groundwater sampling activities, each exploratory boring will be sealed with Portland™ cement grout from the bore hole bottom to the ground surface. Resurfacing with concrete and/or asphalt will proceed grouting activities to match pre-existing site conditions.

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Task 4. Laboratory Analyses

Selected soil samples will be analyzed for the presence of TPHg using EPA Method 8015 (modified), and BTEX and MtBE using EPA Method 8021B. Any MtBE detections will be confirmed by EPA Method 8260B.

All groundwater samples will be analyzed for the presence of TPHg using EPA Method 8015 (modified). Groundwater samples will also be analyzed for the presence of BTEX and fuel oxygenates including MtBE, tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), diisopropyl ether (DIPE), and ethyl tertiary butyl ether (ETBE), by EPA Method 8260B.

Task 5. Reporting

A technical report will be prepared documenting the results of the site investigation activities. This report will include the scope of work, findings, and conclusions. The report will also include tables presenting both current and historical analytical data, a site map presenting groundwater analytical data, boring logs, certified analytical reports, field data sheets, and field procedures.

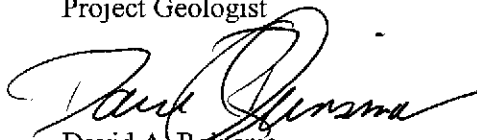
Mr. Amir K. Gholami
County of Alameda
April 30, 2004

Should you have any questions or comments regarding the contents of this work plan, please call RRM at (831) 475-8141.

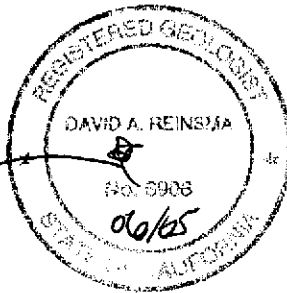
Sincerely,
RRM, Inc.



Matt Paulus
Project Geologist



David A. Reinsma
Senior Geologist
RG 6906



Attachments: Table 1 Soil Analytical Data
Table 2 Grab-Groundwater Analytical Data

Figure 1- Site Location Map
Figure 2- Site Map
Figure 3 Geologic Cross Section A-A'
Figure 4 TPHg/Benzene in Soil
Figure 5 TPHg/Benzene/MtBE Concentrations in Groundwater
Figure 6 Proposed Boring Locations

Attachment A Boring Logs

cc: Warren Hagstrom

Table 1
Soil Analytical Data

Former Firestone Tire Facility
265 30th Street
Oakland, California

Sample ID	Sample Depth (ft bgs)	Date Sampled	TPHd (ppm)	TPHg (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Xylenes (ppm)	MtBE (ppm)	Benzopyrene (ppb)	Napthalene (ppb)
S-1 ¹	13	12/7/1995	<10	390	<0.005	2	1.4	5.1	na	<300	<300
S-2 ¹	13	12/7/1995	<1	<1	<0.005	<0.005	<0.005	<0.005	na	<300	<300
S-3 ¹	13	12/7/1995	<100	6,700	<0.005	35	25	67	na	<300	<300
S-4 ¹	13	12/7/1995	<1	2	<0.005	0.019	0.016	0.047	na	<300	<300
S-5	16	12/7/1995	<1	<1	<0.005	<0.005	<0.005	<0.005	na	<300	<300
S-6	16	12/7/1995	<1	<1	<0.005	<0.005	<0.005	<0.005	na	<300	<300
B-1	5	9/17/1999	na	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	na	na
	10	9/17/1999	na	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	na	na
	15	9/17/1999	na	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	na	na
	20	9/17/1999	na	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	na	na
B-2	5	9/17/1999	na	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	na	na
	10	9/17/1999	na	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	na	na
	15	9/17/1999	na	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	na	na

Notes :

TPHd = diesel range total petroleum hydrocarbons
 TPHg = gasoline range total petroleum hydrocarbons (less than C6)
 MtBE = methyl tertiary butyl ether by EPA Method 8020
 ft bgs = feet below ground surface
 ppm = parts per million
 ppb = parts per billion
¹ = sample collected prior to over-excavation
 < = not detected at or above the specified detection limit
 na = not analyzed

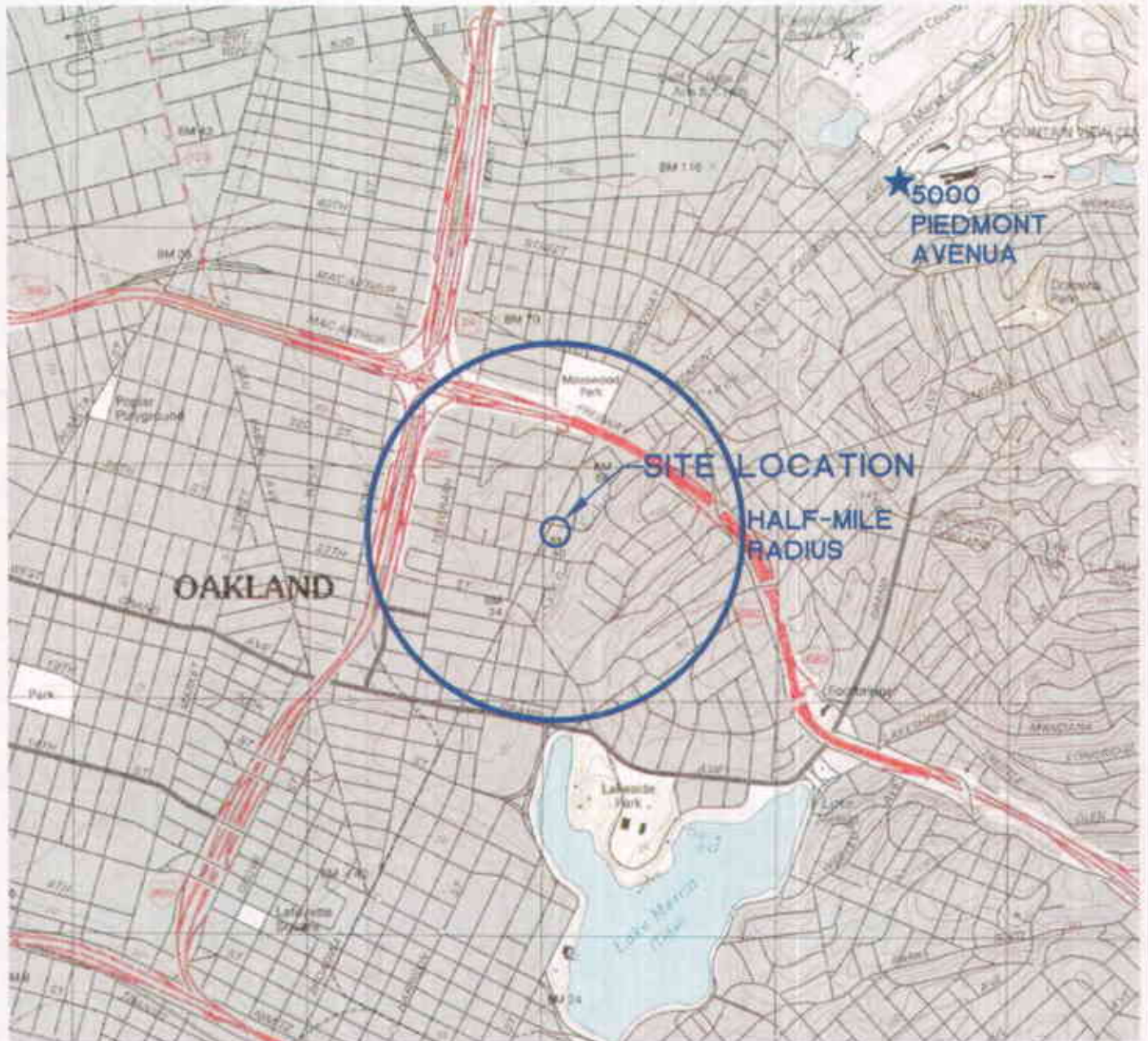
Table 2
Grab-Groundwater Analytical Data

Former Firestone Tire Facility
265 30th Street
Oakland, California

Sample ID	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)
B-1	9/17/1999	2,900	1.1	1.2	3.7	7.0	5.2
B-2	9/17/1999	110	<0.50	<0.50	<0.50	<0.50	7.1

Notes :

TPHg = gasoline range total petroleum hydrocarbons (less than C6)
MtBE = methyl tertiary butyl ether by EPA Method 8020
ppb = parts per billion
< = not detected at or above the specified detection limit



QUADRANGLE LOCATION

EXPLANATION

- ★ IRRIGATION WELL LOCATION



SCALE IN FEET



*Ref. FA03/FA03-SUM03
Base Map from TOP011 MSH*

SITE LOCATION MAP

FORMER FIRESTONE TIRE FACILITY
265 30th Street
Oakland, California

FIGURE:
1
PROJECT:
FA03

PREPARED BY



BROADWAY

INFERRED DIRECTION OF GROUNDWATER FLOW BASED ON TOPOGRAPHY AND LOCAL DRAINAGE PATTERNS



EXPLANATION

- B-1 ◆ SOIL BORING LOCATION, RRM 9/17/99
- S-1 • SOIL SAMPLE LOCATION, COMPLIANCE AND CLOSURE, INC. 12/7/95
- S-5X SOIL OVER-EXCAVATION SAMPLE LOCATION, COMPLIANCE AND CLOSURE, INC. 12/7/95

30TH STREET

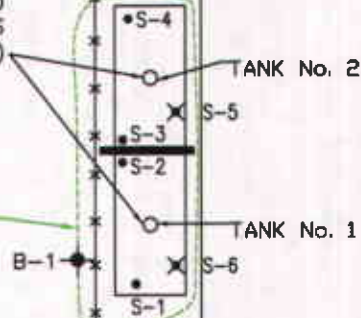
EXISTING BUILDING

FORMER FUEL DISPENSER AREA

FORMER UNDERGROUND STORAGE TANKS (8,000 GALLON)

FENCE (TYP.)

LIMIT OF EXCAVATION



EXISTING BUILDING

ALLEY WAY

PARKING

B-2 ◆

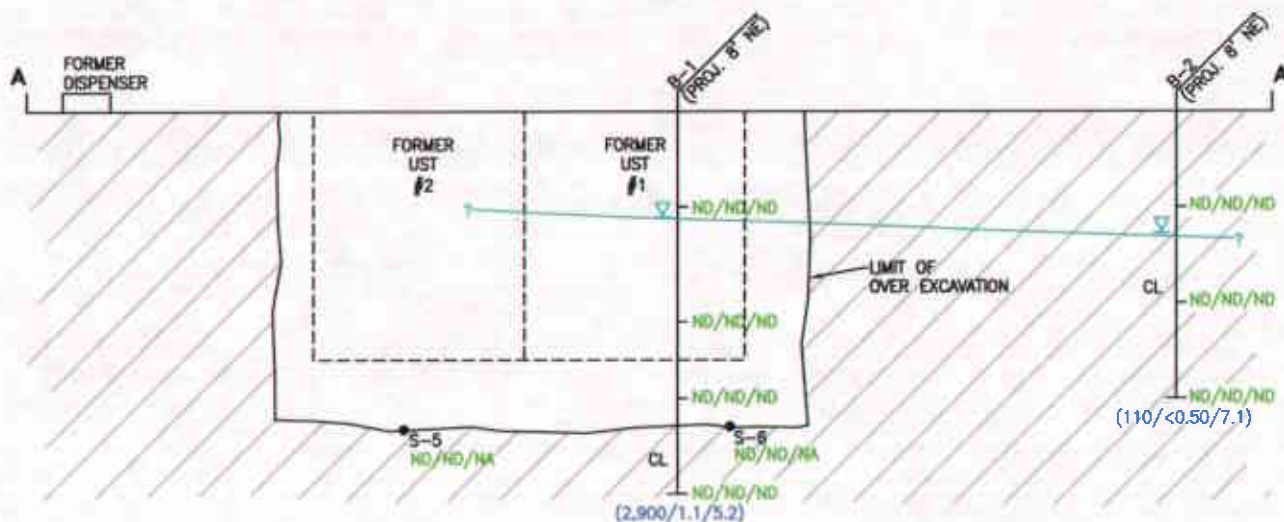
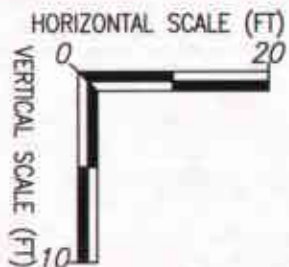




SITE MAP

FORMER FIRESTONE TIRE FACILITY

265 30th Street
Oakland, California

FIGURE:
2
PROJECT:
FA03



EXPLANATION	
ND/ND/ND	TPH _g /BENZENE/MIBE CONCENTRATIONS IN SOIL, PARTS PER MILLION (9/99)
(2,900/1.1/5.2)	TPH _g /BENZENE/MIBE CONCENTRATIONS IN GROUNDWATER, PARTS PER BILLION (9/99)
 CL	CLAY
ND	NOT DETECTED
	ELEVATION OF FIRST ENCOUNTERED GROUNDWATER
NA	NOT ANALYZED
•	OVER-EXCAVATION SOIL SAMPLE (10/95)

REV. 7/02/95/2-SEC. A-LOW



GEOLOGIC CROSS SECTION A-A'

FORMER FIRESTONE TIRE FACILITY

265 30th Street
Oakland, California

FIGURE:

3

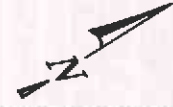
PROJECT:

FA03

BROADWAY



INFERRED DIRECTION OF GROUNDWATER FLOW BASED ON TOPOGRAPHY AND LOCAL DRAINAGE PATTERNS



SCALE IN FEET
0 30

EXPLANATION

- B-1 ◆ SOIL BORING LOCATION, RRM 9/17/99
- S-1 ● SOIL SAMPLE LOCATION, COMPLIANCE AND CLOSURE, INC. 12/7/95
- S-5X SOIL OVER-EXCAVATION SAMPLE LOCATION, COMPLIANCE AND CLOSURE, INC. 12/7/95
- 390/ND TPHg/BENZENE CONCENTRATIONS IN SOIL, ppm (10/95)
- 5' SAMPLE DEPTH

30TH STREET

EXISTING BUILDING

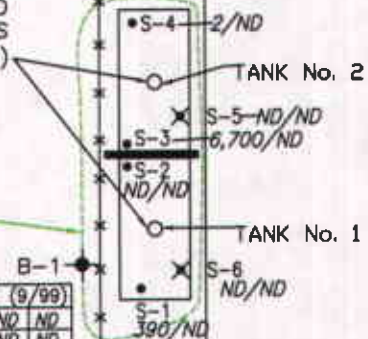
FORMER FUEL DISPENSER AREA

FORMER UNDERGROUND STORAGE TANKS (8,000 GALLON)

FENCE (TYP.)

LIMIT OF EXCAVATION

EXISTING BUILDING



B-1 (9/99)

5'	ND	ND
10'	ND	ND
15'	ND	ND
20'	ND	ND

B-2 (9/99)

5'	ND	ND
10'	ND	ND
15'	ND	ND

ALLEY WAY

PARKING



TPHg/BENZENE IN SOIL

FORMER FIRESTONE TIRE FACILITY

265 30th Street
Oakland, California

FIGURE:
4
PROJECT:
FA03

BROADWAY



INFERRED DIRECTION OF GROUNDWATER FLOW BASED ON TOPOGRAPHY AND LOCAL DRAINAGE PATTERNS



SCALE IN FEET



30TH STREET

EXPLANATION

- B-1 ◆ SOIL BORING LOCATION, RRM 9/17/99
- S-1 ● SOIL SAMPLE LOCATION, COMPLIANCE AND CLOSURE, INC. 12/7/95
- S-5X SOIL OVER-EXCAVATION SAMPLE LOCATION, COMPLIANCE AND CLOSURE, INC. 12/7/95
- 110/ND/7.1 TPHg/BENZENE CONCENTRATIONS IN SOIL, ppm (9/99)
 - ND NOT DETECTED
 - TPHg GASOLINE RANGE PETROLEUM HYDROCARBONS

EXISTING BUILDING

FORMER FUEL DISPENSER AREA

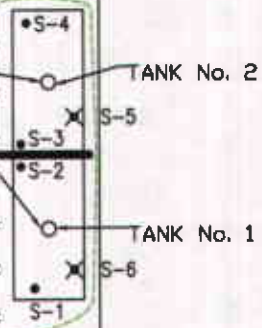
FORMER UNDERGROUND STORAGE TANKS (8,000 GALLON)

FENCE (TYP.)

LIMIT OF EXCAVATION

EXISTING BUILDING

B-1 ◆ 2,900/1.1/5.2



ALLEY WAY

110/ND/7.1

PARKING

B-2 ◆



TPHg/BENZENE/MtBE CONCENTRATIONS IN GROUNDWATER

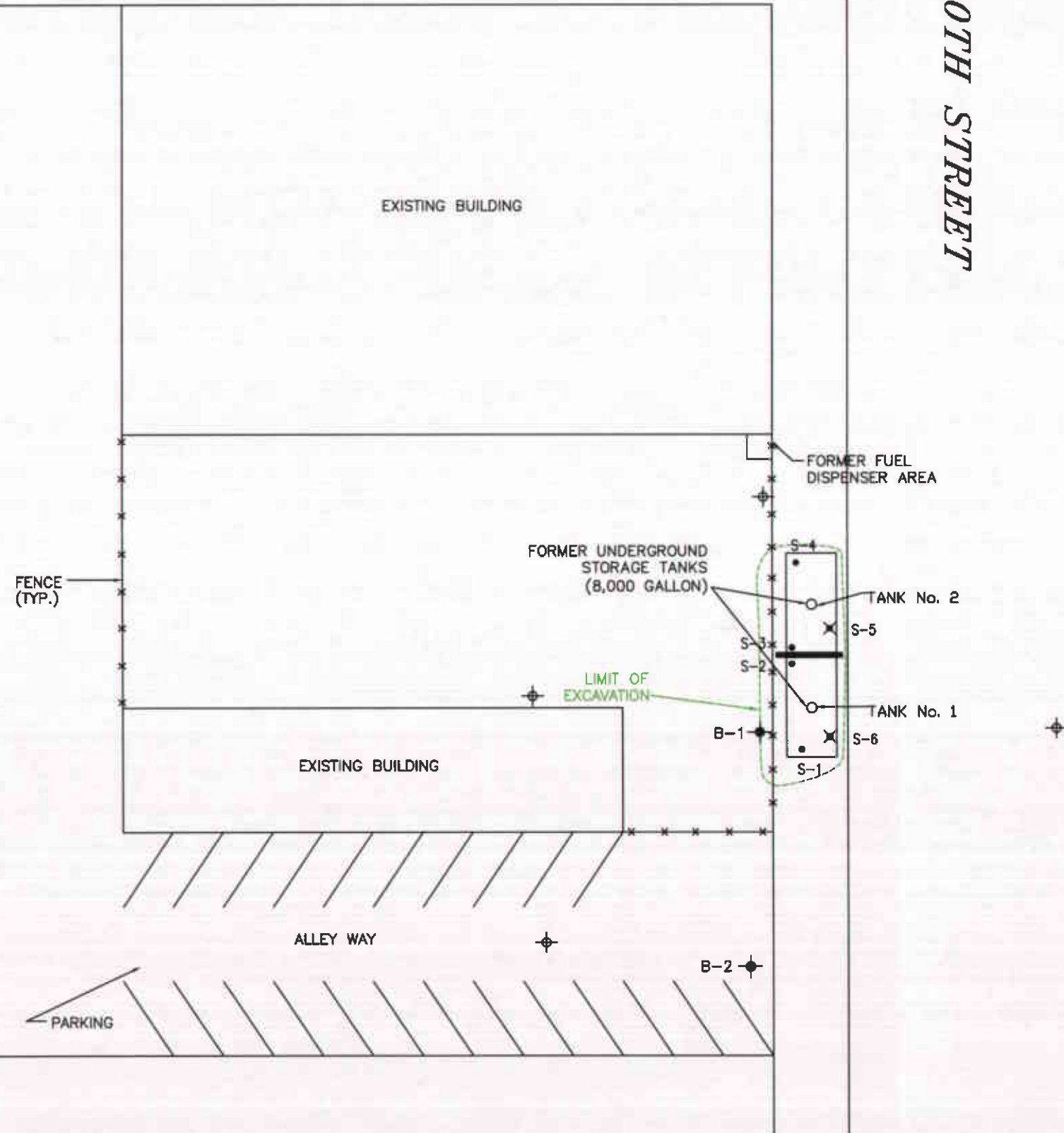
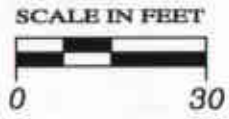
FORMER FIRESTONE TIRE FACILITY


265 30th Street
Oakland, California

FIGURE:
5
PROJECT:
FA03





BROADWAY

30TH STREET




 INFERRED DIRECTION OF
 GROUNDWATER FLOW BASED ON
 TOPOGRAPHY AND LOCAL
 DRAINAGE PATTERNS

EXPLANATION

- B-1  SOIL BORING LOCATION, RRM 9/17/99
- S-1  SOIL SAMPLE LOCATION, COMPLIANCE AND CLOSURE, INC. 12/7/95
- S-5  SOIL OVER-EXCAVATION SAMPLE LOCATION, COMPLIANCE AND CLOSURE, INC. 12/7/95
-  PROPOSED SOIL BORING LOCATION



PROPOSED BORING LOCATION MAP

FORMER FIRESTONE TIRE FACILITY

265 30th Street
Oakland, California

FIGURE:

6

PROJECT:

FA03

BORING LOGS

WELL/BORING LOCATION MAP

REMEDIATION RISK MANAGEMENT, INC.

WELL/BORING: B-1



DATE: 9/17/99
 PROJECT: FA03
 CLIENT: Hagstrom Realty
 LOCATION: 265 30th St.
 CITY: Oakland
 CO./STATE: CA.
 DRILLER: ECA

DRILLING METHOD: Geoprobe
 SAMPLING METHOD:
 BORING DIAMETER: 1 3/4"
 BORING DEPTH: 20'
 WELL CASING: NA
 WELL SCREEN: NA
 SAND PACK: NA

WELL/BORING COMPLETION	FIRST	STABILIZED	MOISTURE	DENSITY	BLOWS/FOOT	FIELD TEST	SAMPLE NUMBER	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	GRAPHIC	USCS SYMBOL	DESCRIPTION/LOGGED BY: Jeff G.
								1					Asphalt and Baserock
								2					
								3					
								4					
			DP			0		5				CI	Clay, light yellowish brown (2.5Y, 6/3), 90% MPF, 10% fine sand, NPO.
								6					
								7					
								8					
			DP			10		9				CI	Sandy Clay, dark greenish gray, 55% 1pf, 45% fine to med sand, MPO, loose.
								10					
								11					
								12					
								13					
			DP			10		14				CI	Clay, light yellowish brown (2.5Y, 6/3), 95% MPF, 5% fine sand, NPO, dense.
								15					
								16					
								17					
			DP			NA		18				EI	Clay, greenish gray, 95% MPF, 5% fine sand, very dense, NPO
								19					
								20					
								21					
								22					
								23					
								24					
								25					B.O.B @ 20'
								26					
								27					
								28					
								29					
								30					

WELL/BORING LOCATION MAP

REMEDIATION RISK MANAGEMENT, INC.

WELL/BORING: B-2



DATE: 9/17/99
 PROJECT: FA03
 CLIENT: Hagstrom Realty
 LOCATION: 265 30th St
 CITY: Oakland
 CO./STATE: CA
 DRILLER: ECA

DRILLING METHOD: Geoprobe
 SAMPLING METHOD:
 BORING DIAMETER: 1 3/4"
 BORING DEPTH: 15'
 WELL CASING: NA
 WELL SCREEN: NA
 SAND PACK: NA

WELL/BORING COMPLETION	FIRST STABILIZED	MOISTURE	DENSITY BLOWS/FOOT	FIELD TEST	SAMPLE NUMBER	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	GRAPHIC	USCS SYMBOL	DESCRIPTION/LOGGED BY: JR
						1					Asphalt and basalt
						2					
						3					
						4					
Drout		DP				5	↓				Clay, dark greenish gray (5G/4/1), 90% MPF, 10% fine sand, MPO
	▼			20		6	↓				
						7					
						8					
		DP				9	↓				Clay, light yellowish brown (2.5Y/6/3) 95% MPF, 5% fine sand, NPO
				30		10	↓				
	▼					11					
						12					
						13					
W		wet				14	↓				Clay, very dark brown, 100% MPF, NPO
				10		15	↓				
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B.D.B @ 15'

Subject: Work Plan Approval Letter
From: Dave Reinsma <dar@rrmsc.com>
Date: Wed, 15 Sep 2004 10:43:30 -0700
To: donna.drogos.acgov.org@rrmsc.com
CC: "Gholami, Amir, Env. Health" <agholami@co.alameda.ca.us>

Donna and Amir...

I have called you both on two projects about 6 times since April 2004 asking for work plan review and approval letters. The two sites I would love to work on before the year is out are:

IA220

649 Pacific Avenue, Alameda: Groundwater Investigation Work Plan, dated March 29, 2004.

FA03

265 30th Street, Oakland: Site Conceptual Model and Work Plan for Additional Assessment, dated April 30, 2004.

I know both of you are very busy and other more high profile jobs are getting your attention. However, I would love to get these jobs off your books and I think the Oakland site is ripe for closure. All I need is the ok from you to do my job. Please take a few moments to review the work plans we have submitted per your request and give me an approval letter. I would greatly appreciate your time and effort on these jobs. I can send your office some cookies or something if that will help .

Thank you for your time and I hope you have a good day.

David

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David Reinsma, RG
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