

PROTECTONAL 97 MAY -2 PM 2:45

April 29, 1997 Project 7284

Oakland School District c/o Mr. Tadashi Nakadegawa Facilities Management 955 High Street Oakland, California 94601

Re: McClymonds High School 2607 Myrtle Street Oakland, California CORRECTIONS

Dear Mr. Nakadegawa,

As discussed with Ms. Jennifer Eberle of the Alameda County Department of Environmental Health, this letter corrects errors in the January 27, 1997 Tank Removal report for the subject site. Additionally this letter transmits signed copies of the Non-Hazardous Waste Manifests for the disposal of the over-excavated soil.

On page 4 of the report, the last sample listed in Table 1 should be 7284-W, not 7284-S as shown.

130 yol3 soil

On page 5 of the report, the last sample listed in Table 2 should have indicated 4.0 parts per million of TPH-D, and 0.003/0.003/0.005/0.025 parts per million of BTEX.

On page 6 of the report, in the fourth paragraph of Section 9, the first sentence should read "The groundwater sample had a positive level of TPH-D of 4 parts per million and Benzene of 3 parts per billion."

Copies of pages 4, 5, 6 of the report are attached. A copy of the corrected North State Environmental laboratory report is also attached.

The SOIL/GROUNDWATER SAMPLING DATA table has been revised and is attached.

As requested, copies of the Non-Hazardous Waste Manifest numbers 62220, 62219, 62218, 32196, 32195, 32128, and 62353 as signed and received from the Forward Inc. landfill are attached.

We apologize for any inconvenience this may have caused. Please call if there are any questions or if additional information is applied on the second second

Sincerely, No. 23772 Exp. 12-31-97 John Carver CIN Civil Engineer 23772 OF CAL

cc Mr. Dave Dement, ACC Environmental Consultants Ms. Jennifer Eberle, Alameda County DEH

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Golden Gate Tank Removal / San Francisco, CA

(TSDF) under uniform hazardous waste manifest number 96416825. A copy of the manifest is included in Appendix C. After the water was removed, fill was imported and placed into the excavation. At this time, both ends of the remote fill were grouted closed using concrete.

Filling continued and the surface was restored to its original condition by January 24, 1997.

On January 16 and 17, 1997, the stockpiled overburden and over-excavated soil was loaded onto seven trucks and was transported to the Forward Class II facility in Manteca, California under non-hazardous waste manifest procedure. Copies of the manifests numbered 62220, 62219, 62218, 32196, 32195, 32128, and 62353 are attached in Appendix C.

9. DISCUSSION AND RECOMMENDATION

There was evidence of holes in the tank that were discovered during the removal process. The water which accumulated in the excavation had floating product on the surface during the several pumping episodes. Soil samples taken from the sidewalls near the surface of the water showed positive TPH-D results. The stockpiled overburden soil had TPH-D results, and one stockpile had a TPH-D level of 1,900 ppm. Because of these conditions, an Underground Storage Tank Unauthorized Release (Leak) / Contamination Site Report was required.

Additional work was carried to remove contaminated soil, free product and groundwater. About 90 cubic yards of contaminated soil was removed from the excavation after the tank was removed. A total of seven loads (approximately 130 cubic yards) of contaminated over-excavation soil and contaminated overburden soil was disposed of at the Forward Inc. class II facility. Both ends of the remote fill piping were sealed using concrete grout.

During five pumping episodes, 21,800 gallons of free product and groundwater was removed from the tank and the excavation. All of the liquid was disposed of at a TSDF under Uniform Hazardous Waste Manifest procedures.

The groundwater sample had positive level of TPH-D of 4 parts per million and Benzene of 3 parts per billion. A temporary observation well has been installed at the site and can be used to collect additional information regarding the groundwater.

The need for any further work will be decided by the Alameda County Department of Public Health and the Regional Water Quality Control Board, the regulatory agencies that have jurisdiction over leaking underground fuel tanks.

TABLE 1 TANK REMOVAL SAMPLE RESULTS

(all results are in parts per million - ppm)

SAMPLE I.D.	TPH-D	BTEX
7284-SP1 (stockpile)	230	ND/ND/ND/ND
7284-SP2 (stockpile)	1,900	ND/ND/ND/ND
7284-N (excavation sidewall at 9')	250	ND/ND/ND/ND
7284-E (excavation sidewall at 7')	310	ND/ND/ND/ND
7284-W (excavation sidewall at 7')	34	ND/ND/ND/ND

7. **DISCUSSION**

Because of the groundwater, free product, and contaminated soil situation, Ms. Eberle required and recommended the following work :

- 1. Remove the liquid in the excavation and dispose of it,
- 2. Excavate contaminated soil remaining in the tank removal excavation to the extent feasible,
- 3. Sample the south sidewall of the excavation if possible,
- 4. Allow the groundwater in the excavation to recharge. Then obtain and analyze one groundwater sample,
- 5. Dispose of the stockpiled overburden soil and any additionally excavated soil,
- 6. Grout both ends of the remote fill piping,
- 7. Backfill the excavation with import soil
- 8. Restore the excavation to match the adjacent surface.

8. ADDITIONAL WORK

There was a combination of removing product and liquid from the excavation, then excavation of soil from the bottom of the excavation to below the water. The soil at the bottom of the excavation could not be dewatered. By a combination of pumping and excavation below the water level, approximately 100 cubic yards of soil was removed from the excavation. This material was stockpiled on site, enveloped in plastic sheeting. On December 27, 1996, Erickson Inc. was contracted to remove 4,500 gallons of product and water from the excavation. The liquid material was transported to a licensed Treatment,

Storage and Disposal Facility (TSDF) under uniform hazardous waste manifest number 96416813. A copy of the manifest is included in Appendix C.

The water was allowed to recharge and on December 27, 1996 additional sampling was carried out. Two soil samples (7284-S and 7284-S2) were taken from the south excavation sidewall at a depth of about 6 feet below ground surface. The water level was at about 7 feet below the ground surface at the time of sampling. The locations of the soil samples are shown on Figure 2 of Appendix A.

One groundwater sample (7284-GW) was taken from the water in the excavation using a laboratory cleaned amber one liter bottle. Two VOA vials were filled from the water in the liter bottle and the liter bottle was refilled from the excavation.

The two soil samples and one groundwater sample were analyzed for Total Petroleum Hydrocarbons as Diesel (TPH-D), and Benzene, Toluene, Ethylbenzene and Xylene (BTEX). The following Table 2 summarizes the TPH-D and BTEX analytical results for the December 27, 1996 soil and water samples. "ND" indicates Non-Detectable results. The results are also tabulated on the attached Soil/Groundwater Sampling Data Form in appendix D. Copies of the laboratory reports are included in Appendix D.

SAMPLE I.D.	TPH-D	BTEX
7284-S (excavation sidewall at 6')	170	ND/ND/ND/0.027
7284-S2 (excavation sidewall at 6')	150	ND/ND/ND/ND
7284-GW (groundwater)	4.0	0.003/0.003/0.005/0.025

 TABLE 2

 ADDITIONAL WORK SAMPLE RESULTS

 (all results are in parts per million - ppm)

The situation was discussed with Jennifer Eberle. She gave permission to backfill the excavation and grout both ends of the remote fill line. There was further discussion about the condition of the groundwater and it was decided to install a temporary observation well before and during the backfilling of the excavation. On January 2, 1997, a 4 inch diameter slotted PVC casing was installed to about 10 feet. After the casing was placed, gravel was dumped around it as a filter pack. The upper 5 feet of slot were blocked with duct tape and filling continued at a later date. The top of the temporary well was cut and a monitoring well waterproof cover was installed.

Because of continuing rains, no backfilling was carried out until January 15, 1997. On January 15, 1997, Erickson Inc. was contracted to remove 5,000 gallons of floating product and water which had accumulated in the excavation since January 2, 1997. The liquid material was transported to a licensed Treatment, Storage and Disposal Facility



CERTIFICATE OF ANALYSIS

Lab No:	96-946	Date Sampled:	12-27-96
Client:	Golden Gate Tank Removal	Date Analyzed:	12-27-96
Project:	Myrtle St., Oakland	Date Reported:	12-30-96

Benzene, Tolucne, Ethylbenzene and Xylenes by Method 8020 Diesel range hydrocarbons by EPA method 8015M

SAMPLE NO	CLIENT ID	ANALYTE	METHOD	RESULT
96-946-01	7284-S SOIL	Benzene Toluene Ethylbenzene Xylenes Diesel	8020 8020 8020 8020 8020 8015M	ND ND ND 0.027 mg/Kg 170 mg/Kg
96-946-02	7284-52 SOIL	Benzene Toluene Ethylbonzene Xylenes Diesel	8020 8020 8020 8020 8020 8015M	ND ND ND 150 mg/Kg
96-946-03	7284-GW Water	Benzene Toluene Ethylbenzene Xylenes Diesel	8020 8020 8020 8020 8020 8015M	3 ug/L 3 ug/L 5 ug/L 25 ug/L 4 mg/L <

Quality Control/Quality Assurance Summary-Soil

Analyte	Method	Reporting Limit	Blank	MS/MSD Rccoveгy	RPD
Benzene	8020	0.005 mg/Kg	ND	91	7
Toluene	8020	0.005 mg/Kg	ND	92	12
Ethylbenzene	8020	0.005 mg/Kg	ND	89	15
Xylenes	8020	0.010 mg/Kg	ND	75	17
Diesel	8015M	1 mg/Kg	ND	80	1

Page 1 of 2

P.O.Box 5624 . South San Francisco, California 94083 . 415-588-2838 FAX 588-1950



CERTIFICATE OF ANALYSIS

Lab No:	96-946	Date Sampled:	12-27-96
Client:	Golden Gate Tank Removal	Date Analyzed:	12-27-96
Project:	Myrtle St., Oakland	Date Reported:	12-30-96

Benzene, Toluene, Ethylbonzene and Xylenes by Mothod 8020 Diesel range hydrocarbons by FPA method 8015M

Quality Control/Quality Assurance Summary-Water

Analyte	Method	Repo Limit	rting	Blank	MS/MSD Recovery	RPD
Benzene	8020	0.5	ug/L	ND	88	7
Toluene	8020	0.5	ug/L	ND	95	12
Ethylbenzene	8020	0.5	ug/L	ND	93	15
Xylenes	8020	1.0	ug/L	ND	71	17
Diesel	8015M	0.05	mg/L	ND	80	1
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ELAP Certificate NO: 1753

Reviewed and Approved:

Eduard lima John A. Murphy, Laboratory Director

Page 2 of 2

P.O. Box 5624 • South San Francisco, California 94083 • 415-588-2838 FAX 588-1950

State Environmental 14155881950 U L JON 940:10 82

North State Environmental Analytical Laboratory Chain of Custody/Request for Analysis 96-946

(415) 589-0657

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CITY OF OAKLAND SOIL/GROUND WATER SAMPLING DATA (revised 4/28/97)

Underground Storage Tank Site Address:

2607 Myrtle Street, Oakland, CA Job # 7284

Business Site Name: McCymonds High School

Description	Sample Depth		Date	Soil Type	T	Laborator	v Results, e	xpress in n	ø/kø unles	s otherwise	enecified			_
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(Specify location; ie, tank,	sample from	(soil/water)	was collected	sand, clay,	TPHo	TPHd	B	т	R	x	Land	TOC	CILIC	
pipe, stockpile) and number	grade)			fill, etc.)			_	-	-			106		Uther
7284-SP1			T		[I				<u> </u>				1
stockpile		soil	12/24/96	pea gravel		230	ND	ND	ND	ND				
7284-SP2														
stockpile		soil	12/24/96	pea gravel		1,900	ND	ND	ND	ND			ł '	1
7284-N													┟──── <i>┙</i>	
north sidewall of excavation	9 feet	soil	12/24/96	sand/clay		250	ND	ND	ND	ND			!	
7284-E														
east sidewall of excavation	7 feet	soil	12/24/96	sand/clay		310	ND	ND	ND	ND				
7284-W														
west sidewall of excavation	7 feet	soil	12/24/96	sand/clay		34	ND	ND	ND	ND				
7294 6														
7284-5	<i>.</i>													
South sidewall of excavation	<u>6 Ieet</u>		12/27/96	sand/clay		170	ND	ND	ND	0.027				
7204-52 couth sidewall of execution	(S+		10/07/07											
7084 CW	6 ieet	SOIL	12/27/96	sand/clay		150	ND	ND	ND	ND				
7204-0W			10/07/07											
groundwatch		water	12/2//96	sand/clay		4.0	0.003	0.003	0.005	0.025				
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TPHg = Total Petroleum Hydrocarbons as Gasoline

BTEX = Benzene, Toluene, Ethylbenzene, Xylene

CI HC = Chlorinated hydrocarbon compounds

TPHd = Total Petroleum Hydrocarbon as Diesel

TOG = Total Oil and Grease

Other = Semivolatile organic compounds, heavy metals, etc.

List additional analytical results and / or additional samples on a separate sheet

Submit this form as part of the closure final report. Attach soil/ground water sampling location map.



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