

CAMBRIA



Fax

To: Eva Chu

Company: ACHCSA

Fax: (510) 337-9335

Phone: (510) 567-6762

From: Bob Clark-Riddell

Phone: (510) 420-3303

Pages: 7, including cover

Date: September 10, 2002

Re: Backfilling, and Soil and Groundwater Data
1350 Powell Street, Emeryville

Hard Copy to Follow? Yes No

Here is preliminary soil and groundwater data from the sampling and excavation work at 1350 Powell Street. Cambria has coordinated the excavation of approximately 7,000 tons of soil from the site, with the excavation extending to approximately 10 ft depth. The excavation was extended to approximately 13 ft depth in a few areas where field indications suggested the presence of hydrocarbons.

We plan to commence initial backfilling this Thursday due to the availability of inexpensive fill material. To facilitate backfilling, Cambria hereby requests the following:

- 1) **Soil Reuse:** Please comment on our plan to reuse select stockpiled soil – We plan to reuse stockpiles A2 and SP-1. This stockpiled soil would be placed on the bottom of the excavation before importing clean fill, which is scheduled for delivery this Thursday. The other stockpiles exceed the discussed backfill limits and will be off-hauled.
- 2) **Backfill Comments:** Please comment on our plan to import and place backfill material. Today and tomorrow Cambria plans to complete excavation to cleanup standards along the western property boundary as well as in the northern section (targeting shallow location near sample EX-E-W-3 which contains 1,125 ppm total TPH at 3 ft depth). This Thursday and Friday we plan to backfill the western and northern areas of the site.

The backfilling will help facilitate additional excavation to cleanup standards along the eastern excavation boundary (planned within the next two weeks) and beneath the site building in the southwestern portion of the site (to be excavated after the site is backfilled).

FYI, Cambria also includes groundwater data from the temporary wells which we sampled prior to their excavation. Our excavation is targeted groundwater areas above the cleanup standards. Groundwater is slowly recharging in some areas of the site near 10 ft depth.

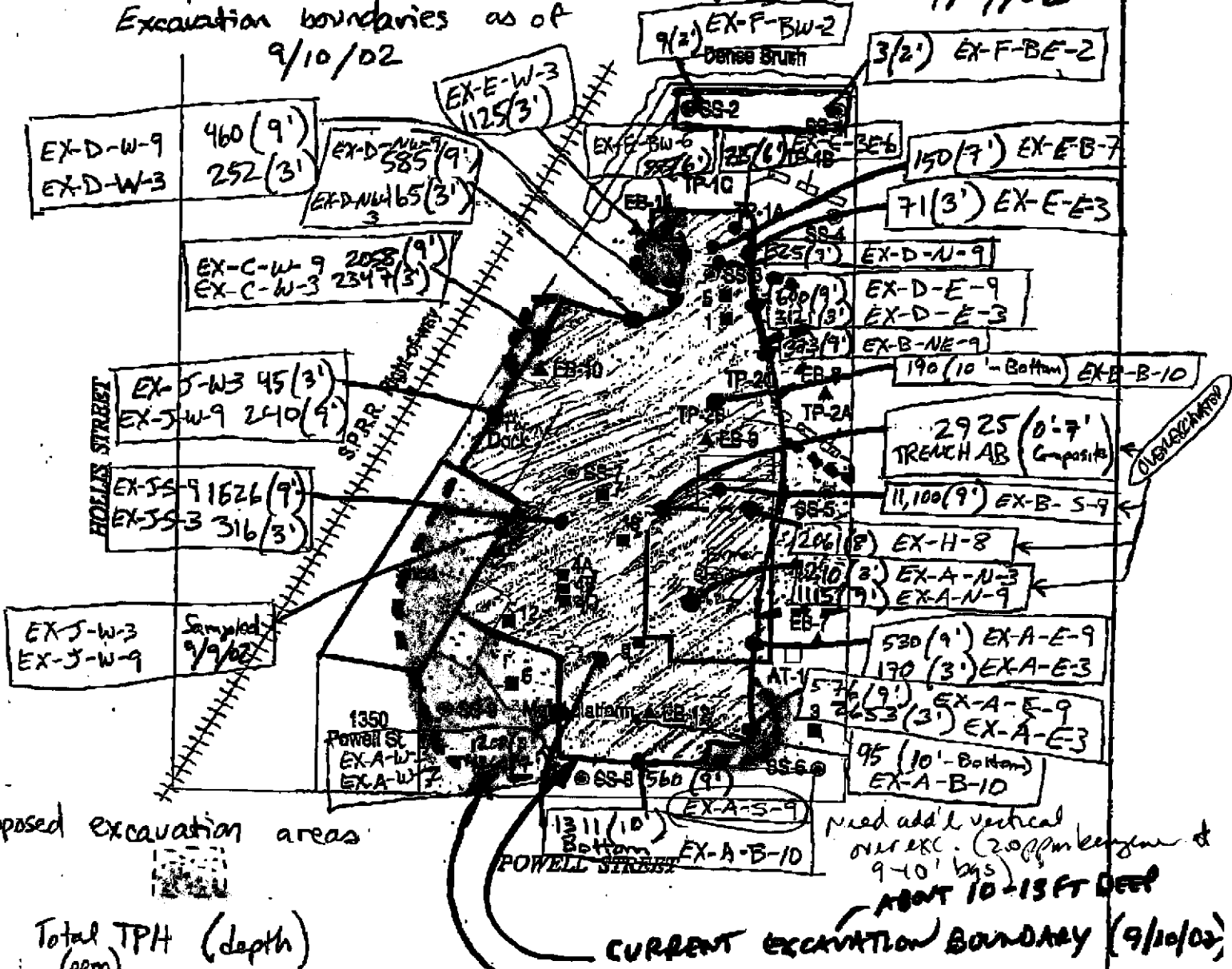
Please call me soon at (510) 420-3303 (office) or (510) 385-2724 (cell). Bob

Cambria Environmental Technology, Inc. 1144 65th Street Suite B Oakland CA 94608 Tel (510) 420-0700 Fax (510) 420-9170

SEP-10-2002 12:37

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Analytical data extent of sidewalk sampling as of 9/4/02
Excavation boundaries as of 9/10/02



Proposed excavation areas

Total TPH (depth)
(ppm)

EXPLANATION

- EB-11 ▲ - Approximate location of exploratory ground water boring (by Lowmy)
- SS-9 ● - Approximate location of exploratory soil boring (by Lowmy)
- 12 ■ - Approximate location of exploratory boring (by R.T. Hicks)
- TP-1A □ - Approximate location of exploratory test pit (by Lowmy)



FIGURE

2

Base by Lowmy Associates dated 6/02.

Balaam Property
1350 Powell Street
Emeryville, California



SOIL

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Site Plan

WITH SOIL RESULTS
TOTAL TPH (DEPTH)-ID

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SOIL

Table 1a. Selected Soil Sampling Analytical Data - Hydrocarbon Analyses
 Dabam Aings
 1350 Powell Street, Emeryville, California

Sample ID	Depth - feet bgs	Date Sampled	TPHg	TPHd	TPHmo	TPHho	Total TPH (mg/kg)	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
			(C6-C9) (mg/kg)	(C10-C23) (mg/kg)	(C18+) (mg/kg)	(C10+) (mg/kg)		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
RFA Method:			8015a	8015	8015	8015		8021	8021	8021	8021	8021
Residential RDSL*:			400	500	500	NE	NE	0.18	8.4	24	1.0	1.0
Sidewalk Sampling Event I												
North Side of Property												
EX-D-B-18	10'-10.5'	7/23/1998	<20	208	33	180	190	<0.1	<0.1	<0.1	<0.1	>1
EX-B-S-9	9'-10'	7/23/1998	<200	12,000	2,300	11,000	11,100	<1	<1	<1	>1	>10
South Side of Property												
EX-A-W-3	3'-4'	7/23/1998	940	330	25	300	4,200	89	89	29	130	>10
EX-A-W-7	7'-8'	7/23/1998	460	3,300	520	3,800	4,260	3.6	3.6	12	44	<10
EX-A-B-10	10'-10.5'	7/23/1998	7.4	99	18	88	93	0.47	0.027	0.038	0.13	<10.2
EX-A-S-8	9'-10'	7/23/1998	350	230	18	210	560	3.8	0.30	3.4	2.1	<2.0
Sidewalk Sampling Event II												
North Side of Property												
EX-H-SB-9	9'-10'	8/6/1998	<5.0	340	130	370	371	-	-	-	-	-
EX-D-N-9	9'-10'	8/6/1998	<10	300	95	320	325	-	-	-	-	-
EX-B-BW-6	6'-6.5'	8/6/1998	<10	330	<500	550	555	-	-	-	-	-
EX-E-BE-6	6'-6.5'	8/6/1998	<10	780	<500	730	735	-	-	-	-	-
EX-F-BE-2	2'-3'	8/6/1998	<1.0	<1.0	<5.0	<5.0	3	-	-	-	-	-
EX-F-BW-2	2'-3'	8/6/1998	<1.0	2	6.3	8.1	9	-	-	-	-	-
Sidewalk Sampling Event III												
South Side of Property												
EX-A-N-3	3'-4'	8/9/1998	<20	1,300	220	1,200	1,210	<0.1	<0.1	<0.1	<0.1	>1
EX-A-N-9	9'-10'	8/9/1998	15	1,000	180	1,100	1,115	<0.05	<0.05	0.1	0.063	>0.5
EX-A-B-10	10'-10.5'	8/9/1998	11	1,500	400	1,300	1,317	<0.05	<0.05	<0.05	>0.5	>0.5
Sidewalk Sampling Event IV												
North Side of Property												
EX-C-W-9	9'-9.5'	8/18/1998	58	1,900	430	2,000	2,058	-	-	-	-	-
EX-C-W-3	3'-4'	8/18/1998	47	2,600	540	2,300	2,347	-	-	-	-	-
EX-D-W-9	9'-9.5'	8/18/1998	<20	420	440	450	460	-	-	-	-	-
EX-D-W-3	3'-4'	8/18/1998	12	270	62	240	252	-	-	-	-	-
EX-D-B-9	9'-9.5'	8/18/1998	<20	650	160	590	600	-	-	-	-	-
EX-D-B-3	3'-4'	8/18/1998	21	3,100	840	3,100	3,121	-	-	-	-	-

BOTH ON

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BOTTOM - TO EXCAVATE

TO EXCAVATE

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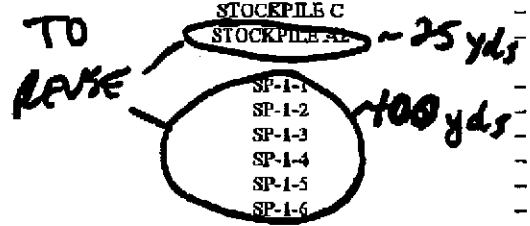
Table 1a. Selected Soil Sampling Analytical Data - Hydrocarbon Analyses
 Balaam Airgas
 1350 Powell Street, Emeryville, California

Sample ID	Depth - feet bgs	Date Sampled	TPHg	TPHd	TPHmo	TPHba	Total TPH	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
			(C6-C9)	(C10-C23)	(C-18+)	(C-10+)						
EPA Method:			8015a	8015	8015	8015		8021	8021	8021	8021	8021
Residential RBSL*:			400	500	500	NE	NE	0.18	8.4	24	1.0	1.0
TRBNCHAB	0'-7'	8/16/98	25	1,500	560	2,900	2,925	-	-	-	-	-
EX-H-8	8'-9'	8/19/98	61	1,600	550	2,000	2,061	-	-	-	-	-
South Side of Property												
EX-A-E-9	9'-9.5'	8/16/98	<20	570	150	520	530	-	-	-	-	-
EX-A-E-3	3'-4'	8/16/98	<20	180	45	160	170	-	-	-	-	-
Sidewalk Sampling Event V												
South Side of Property												
EX-A-E-9	9'-9.5'	8/26/98	16	570	120	560	576	<0.02	<0.02	0.16	0.33	<0.2
EX-A-E-3	3'-4'	8/26/98	53	2,300	650	2,500	2,653	<0.05	<0.05	0.40	0.57	<0.5
Sidewalk Sampling Event VI												
North Side of Property												
EX-E-B-7	7'-7.5'	9/3/98	<20	160	41	140	150	-	-	-	-	-
EX-B-W-3	3'-3.5'	9/3/98	<50	1,100	410	1,100	1,125	-	-	-	-	-
EX-B-E-3	3'-3.5'	9/3/98	<1.0	66	45	70	71	-	-	-	-	-
EX-D-NW-9	9'-9.5'	9/3/98	<50	620	120	560	585	-	-	-	-	-
EX-D-NW-3	3'-3.5'	9/3/98	<50	1,560	30	140	165	-	-	-	-	-
EX-J-W-3	3'-3.5'	9/3/98	<2.0	46	18	44	45	-	-	-	-	-
EX-J-W-9	9'-9.5'	9/3/98	<20	220	66	230	240	-	-	-	-	-
EX-J-S-9	9'-9.5'	9/3/98	26	1,700	520	1,600	1,626	-	-	-	-	-
EX-J-S-3	3'-3.5'	9/3/98	6.3	290	97	310	316	-	-	-	-	-
Cleanup Goal							1,000					
Stockpile Samples												
STOCKPILE A	-	7/23/98	60	330	-	-	-	-	-	-	-	-
STOCKPILE B	-	7/23/98	-	-	-	-	-	-	-	-	-	-
STOCKPILE B2	-	8/6/98	210	660	160	650	860	-	-	-	-	-
STOCKPILE C	-	8/6/98	35	200	41	210	245	-	-	-	-	-
STOCKPILE A1	-	8/26/98	<1.0	44	40	84	85	-	-	-	-	-
SP-1-1	-	8/26/98	<20	400	290	480	490	-	-	-	-	-
SP-1-2	-	8/26/98	<1.0	51	68	110	111	-	-	-	-	-
SP-1-3	-	8/26/98	1.6	250	230	330	332	-	-	-	-	-
SP-1-4	-	8/26/98	<1.0	400	170	470	471	-	-	-	-	-
SP-1-5	-	8/26/98	<1.0	170	120	190	191	-	-	-	-	-
SP-1-6	-	8/26/98	1.2	410	220	540	541	-	-	-	-	-
SP-2-1	-	8/26/98	<1.0	380	690	690	691	-	-	-	-	-
SP-2-2	-	8/26/98	<100	8,000	2,400	8,400	8,450	-	-	-	-	-

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TO REUSE

TO OFFHAUL

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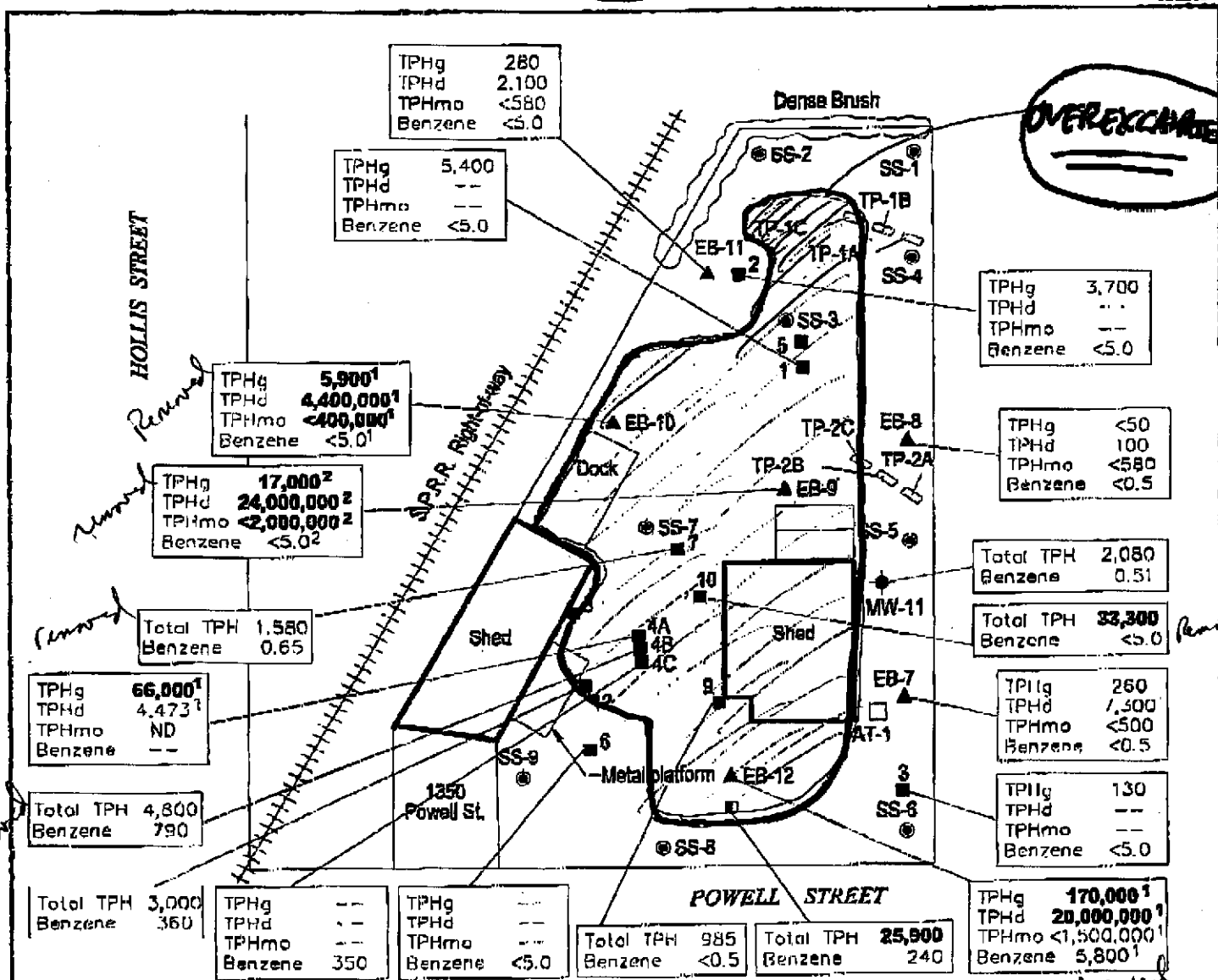
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 1350 Powell Street, Emeryville, California

Sample ID	Depth - feet bgs	Date Sampled	TPHg	TPHd	TPHmo	TPHbo	Total	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
			(C6-C9) (mg/kg)	(C10-C23) (mg/kg)	(C-18+) (mg/kg)	(C-18+) (mg/kg)	TPH (mg/kg)					
		EPA Method:	8015m	8015	8015	8015		8021	8021	8021	8021	8021
		Residential RBSL*:	400	500	500	NE	NE	0.18	8.4	24	1.0	1.0
SP-2-3	-	8/26/98	<100	88,000	19,000	89,000	89,050] TO OFF HALL				
SP-2-4	-	8/26/98	<40	2,000	640	2,100	2,170					
SP-3-1	-	8/26/98	<10	360	200	400	405] DO OFF HALL				
SP-3-2	-	8/26/98	<10	600	320	830	885					

Abbreviations and Notes:

- * = Risk Based Screening Level (RBSL), CRWQCB, December 2001, Table B
- TPHg = Total petroleum hydrocarbons as gasoline
- TPHd = Total petroleum hydrocarbons as diesel
- TPHmo = Total petroleum hydrocarbons as motor oil
- TPHbo = Total petroleum hydrocarbons as bunker oil
- Total TPH = TPHg + TPHbo. Results below detection limits added as 1/2 the detection limit.
- MTBE = Methyl tert-butyl ether
- mg/kg = Milligrams per kilogram
- <n = Below detection limit of n mg/kg
- = Not analyzed

6W



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EXPLANATION

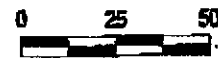
- ◆ - Approximate location of monitoring well
- - Approximate location of excavation grab sample
- EB-11 ▲ - Approximate location of exploratory ground water boring (by Lowney)
- SS-9 ● - Approximate location of exploratory soil boring (by Lowney)
- 12 ■ - Approximate location of exploratory boring (by R.T. Hicks)
- TP-1A □ - Approximate location of exploratory test pit (by Lowney)
- NA - Not Analyzed
- - Not detected at or above the stated laboratory limit

Concentrations in parts per billion (ppb)

Concentrations exceeding cleanup goal of <20,000 ppb combined TPH is shown in BOLD

- 1 Free product observed on groundwater
- 2 Fuel sheen observed on groundwater

to be removed



Approx. Scale (ft)

FIGURE 4

Based by Lowney Associates dated 5/02.

Balaam Property
1350 Powell Street



TPHg, TPHd, TPHmo, and Benzene in Ground Water

(includes recent analysis)
TOTAL P. 06

GW

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Table 2a. Groundwater Analytical Data - Hydrocarbon Analyses
 Balaam Airgas
 1350 Powell Street, Emeryville, California

Sample ID	Date	Screen	TPHg (C6-C9) (ug/L)	TPHd (C10-C13) (ug/L)	TPHmo (C-18+) (ug/L)	TPHbo (C-10+) (ug/L)	Total TPH (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)
		Sampled Interval	8015m	8015	8015	8015		8021	8021	8021	8021	8021
		EPA Method:										
		MCL*:	NE	NE	NE	NE		1.0	150	700	1,750	13
		RBSL**:	500	640	640	NE		46	130	290	13	1,900
ED-7	3/5/2002	--	250	7,300	<500	--	--	<0.5	<0.5	<0.5	<1.0	<5.0
ED-8	3/5/2002	--	<50	100	<580	--	--	<0.5	<0.5	<0.5	<1.0	<5.0
EB-7	3/5/2002	--	17,000	24,000,000	<2,000,000	--	--	<5.0	<5.0	<5.0	<10	<50
EB-10	3/5/2002	--	5,900	4,400,800	<400,000	--	--	<5.0	<5.0	<5.0	<10	<50
EB-11	3/5/2002	--	280	2,100	<580	--	--	<5.0	<5.0	<5.0	<10	100
EB-12	3/5/2002	--	170,800	20,000,000	<1,500,000	--	--	5,800	77	<50	<100	<500
MW-4B	7/24/2002		1,700	2,000	340	2,100	4,800	790	14	18	4.5	<10
MW-7	7/24/2002		280	1,100	420	1,300	1,580	0.65	<0.5	<0.5	<0.5	<5.0
MW-9	7/24/2002		<50	600	780	960	985	<0.5	<0.5	<0.5	<0.5	<5.0
MW-10	7/24/2002		1,300	30,000	9,500	32,000	33,300	<5.0	<5.0	<5.0	<5.0	<50
MW-11	7/24/2002		280	1,400	900	1,800	2,080	0.51	1.6	<0.5	0.78	<5.0
MW-12	7/24/2002		1,400	950	1,200	1,600	3,000	360	1.7	10	1.1	<5.0
EX-A-W1	8/1/2002	--	2,500	23,000	7,900	23,000	25,900	240	49	80	360	<50

OVEREXCAVATED

TO BE RECHARGED

Abbreviations and Notes:

- TPHg = Total petroleum hydrocarbons as gasoline
- TPHd = Total petroleum hydrocarbons as diesel
- TPHmo = Total petroleum hydrocarbons as motor oil
- TPHbo = Total petroleum hydrocarbons as bunker oil
- MTBE = Methyl tert-butyl ether
- ug/L = Micrograms per liter
- <n = Below detection limit of n mg/kg
- * = Drinking water Maximum Contaminant Levels - California DHS, January 14, 2001
- ** = Risk Based Screening Level (RBSL), CRWQCB, December 2001, Table B
- NE = Not established
- = Not analyzed/Not applicable