

Detterman, Mark, Env. Health

From: Sami Malaeb [s.malaeb@comcast.net]
Sent: Tuesday, February 14, 2012 3:17 PM
To: Detterman, Mark, Env. Health
Cc: britpete@aol.com; 'Eagle Environmental Construction'
Subject: 2145 35th Avenue First Round of Drilling Analytical Results
Attachments: Figure 8- Depicted Shallow Soil Lead Results.PDF; Figure 9- Depicted Hydrocarbons in Water.PDF

Hi Mark:

I placed the analytical results from the first round of drilling at 2145 35th Avenue in Oakland on the attached Figures. Please note that these figures are in their draft form. The shallow soil at the site did not report any concentration of Lead above 400 mg/kg (the HUD level). However, the groundwater is heavily impacted in the source areas (former USTs, fuel pumps, and piping). The soil is impacted mainly below the shallow groundwater levels.

As of the end of day on February 8, 2012, all borings have been drilled and sampled (pending the analytical results). The next phase will be to install the planned four monitoring wells. I will keep you informed about the remaining analytical data. I will send you the figures in two emails due to their large size.

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RESIDENTIAL HOUSES

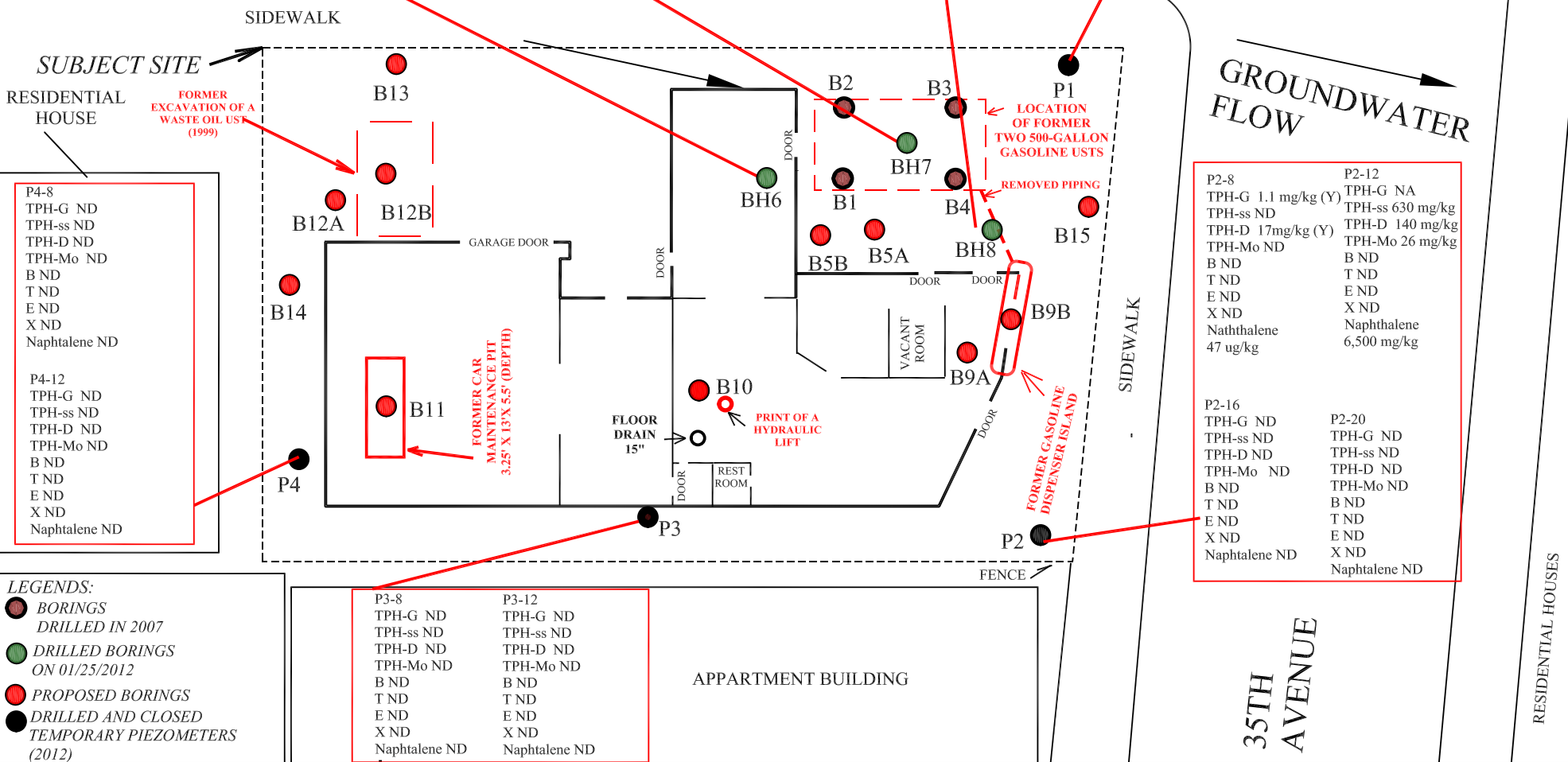
SALISBURY STREET

BH6-8	BH6-12	BH6-16
TPH-G ND	TPH-G 530 mg/kg Y	TPH-G ND
TPH-ss ND	TPH-D 240 mg/kg Y	TPH-ss ND
TPH-D 4.4 mg/kg (Y)	TPH-Mo 9.2 mg/kg	TPH-D
TPH-Mo ND	B ND	2.6 mg/kg Y
B ND	T ND	B ND
T ND	E ND	T ND
E ND	X ND	E ND
X ND	Naphtalene 840 ug/kg	X ND
Naphtalene ND	Naphtalene ND	Naphtalene ND

BH7-8	BH7-12
TPH-G ND	TPH-G ND
TPH-ss ND	TPH-D 2.3 mg/kg Y
TPH-D 2.4 mg/kg Y	TPH-Mo ND
TPH-Mo ND	B ND
B ND	T ND
T ND	E ND
E ND	X ND
X ND	Naphtalene ND
Naphtalene ND	Naphtalene ND

BH8-8	BH8-12	BH8-16
TPH-G 1.0 mg/kg (Y)	TPH-G 33 mg/kg (Y)	TPH-G ND
TPH-ss ND	TPH-ss 63 mg/kg	TPH-ss ND
TPH-D 1.8 mg/kg (Y)	TPH-D 62 mg/kg (Y)	TPH-D
TPH-Mo ND	TPH-Mo ND	3.2 mg/kg (Y)
B ND	B ND	TPH-Mo ND
T ND	T ND	B ND
E ND	E ND	T ND
X ND	X ND	E ND
Naphtalene 14 ug/kg	Naphtalene 710 ug/kg	X ND
	Naphtalene ND	Naphtalene ND

P1-5	P1-14
TPH-G ND	TPH-G ND
TPH-ss ND	TPH-D ND
TPH-D ND	TPH-Mo ND
TPH-Mo ND	B ND
B ND	T ND
T ND	E ND
E ND	X ND
X ND	X ND



P3-8	P3-12
TPH-G ND	TPH-G ND
TPH-ss ND	TPH-ss ND
TPH-D ND	TPH-D ND
TPH-Mo ND	TPH-Mo ND
B ND	B ND
T ND	T ND
E ND	E ND
X ND	X ND
Naphtalene ND	Naphtalene ND

P2-8	P2-12
TPH-G 1.1 mg/kg (Y)	TPH-G NA
TPH-ss ND	TPH-ss 630 mg/kg
TPH-D 17mg/kg (Y)	TPH-D 140 mg/kg
TPH-Mo ND	TPH-Mo 26 mg/kg
B ND	B ND
T ND	T ND
E ND	E ND
X ND	X ND
Naphtalene 47 ug/kg	Naphtalene 6,500 mg/kg

P2-16	P2-20
TPH-G ND	TPH-G ND
TPH-ss ND	TPH-ss ND
TPH-D ND	TPH-D ND
TPH-Mo ND	TPH-Mo ND
B ND	B ND
T ND	T ND
E ND	E ND
X ND	X ND
Naphtalene ND	Naphtalene ND

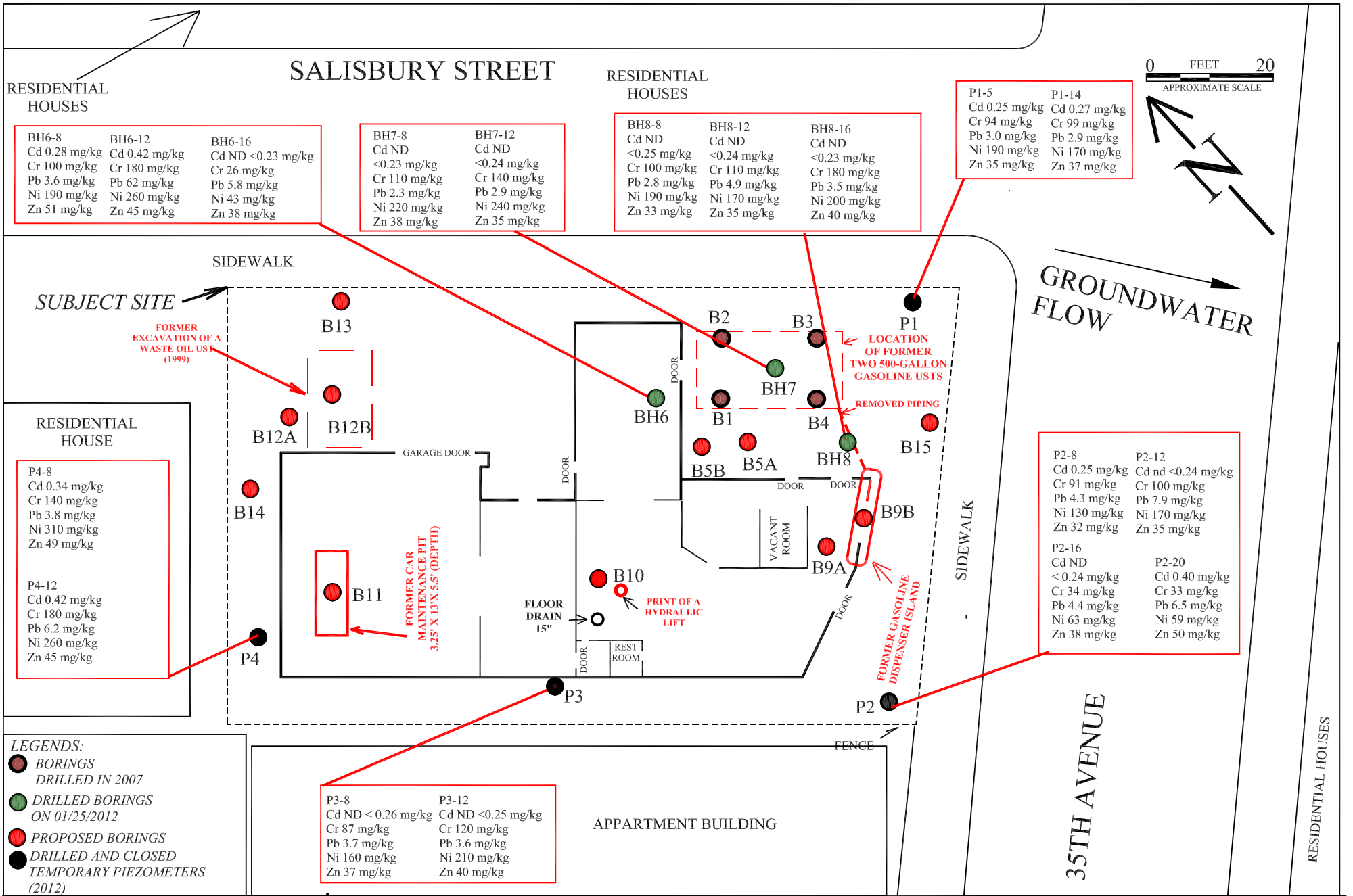


EAGLE ENVIRONMENTAL COMPANY
4909 THIRD STREET
SAN FRANCISCO, CA 94124

DEPICTED PETROLEUM HYDROCARBONS IN SOIL
2145 35TH AVENUE, OAKLAND, CALIFORNIA

FIGURE 11

FEBRUARY 4, 2012



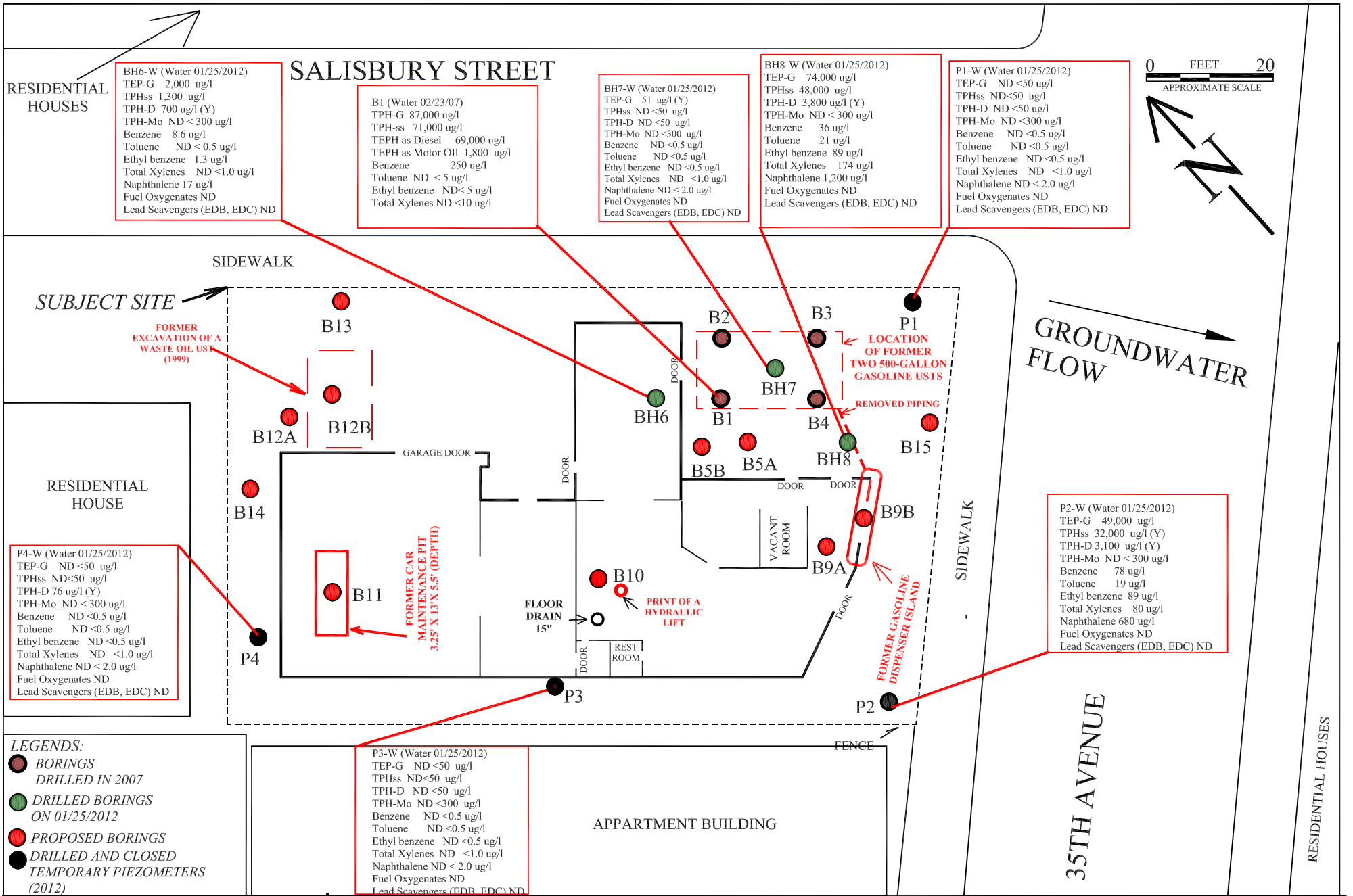
DEPICTED LUFT 5 METALS IN SOIL
2145 35TH AVENUE, OAKLAND, CALIFORNIA

FIGURE 10

FEBRUARY 4, 2012



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BH6-W (Water 01/25/2012)
 TEP-G 2,000 ug/l
 TPHss 1,300 ug/l
 TPH-D 700 ug/l (Y)
 TPH-Mo ND < 300 ug/l
 Benzene 8.6 ug/l
 Toluene ND < 0.5 ug/l
 Ethyl benzene 1.3 ug/l
 Total Xylenes ND < 1.0 ug/l
 Naphthalene 17 ug/l
 Fuel Oxygenates ND
 Lead Scavengers (EDB, EDC) ND

B1 (Water 02/23/07)
 TPH-G 87,000 ug/l
 TPH-ss 71,000 ug/l
 TEPH as Diesel 69,000 ug/l
 TEPH as Motor Oil 1,800 ug/l
 Benzene 250 ug/l
 Toluene ND < 5 ug/l
 Ethyl benzene ND < 5 ug/l
 Total Xylenes ND < 10 ug/l

BH7-W (Water 01/25/2012)
 TEP-G 51 ug/l (Y)
 TPHss ND < 50 ug/l
 TPH-D ND < 50 ug/l
 TPH-Mo ND < 300 ug/l
 Benzene ND < 0.5 ug/l
 Toluene ND < 0.5 ug/l
 Ethyl benzene ND < 0.5 ug/l
 Total Xylenes ND < 1.0 ug/l
 Naphthalene ND < 2.0 ug/l
 Fuel Oxygenates ND
 Lead Scavengers (EDB, EDC) ND

BH8-W (Water 01/25/2012)
 TEP-G 74,000 ug/l
 TPHss 48,000 ug/l
 TPH-D 3,800 ug/l (Y)
 TPH-Mo ND < 300 ug/l
 Benzene 36 ug/l
 Toluene 21 ug/l
 Ethyl benzene 89 ug/l
 Total Xylenes 174 ug/l
 Naphthalene 1,200 ug/l
 Fuel Oxygenates ND
 Lead Scavengers (EDB, EDC) ND

P1-W (Water 01/25/2012)
 TEP-G ND < 50 ug/l
 TPHss ND < 50 ug/l
 TPH-D ND < 50 ug/l
 TPH-Mo ND < 300 ug/l
 Benzene ND < 0.5 ug/l
 Toluene ND < 0.5 ug/l
 Ethyl benzene ND < 0.5 ug/l
 Total Xylenes ND < 1.0 ug/l
 Naphthalene ND < 2.0 ug/l
 Fuel Oxygenates ND
 Lead Scavengers (EDB, EDC) ND

P2-W (Water 01/25/2012)
 TEP-G 49,000 ug/l
 TPHss 32,000 ug/l (Y)
 TPH-D 3,100 ug/l (Y)
 TPH-Mo ND < 300 ug/l
 Benzene 78 ug/l
 Toluene 19 ug/l
 Ethyl benzene 89 ug/l
 Total Xylenes 80 ug/l
 Naphthalene 680 ug/l
 Fuel Oxygenates ND
 Lead Scavengers (EDB, EDC) ND

P4-W (Water 01/25/2012)
 TEP-G ND < 50 ug/l
 TPHss ND < 50 ug/l
 TPH-D 76 ug/l (Y)
 TPH-Mo ND < 300 ug/l
 Benzene ND < 0.5 ug/l
 Toluene ND < 0.5 ug/l
 Ethyl benzene ND < 0.5 ug/l
 Total Xylenes ND < 1.0 ug/l
 Naphthalene ND < 2.0 ug/l
 Fuel Oxygenates ND
 Lead Scavengers (EDB, EDC) ND

P3-W (Water 01/25/2012)
 TEP-G ND < 50 ug/l
 TPHss ND < 50 ug/l
 TPH-D ND < 50 ug/l
 TPH-Mo ND < 300 ug/l
 Benzene ND < 0.5 ug/l
 Toluene ND < 0.5 ug/l
 Ethyl benzene ND < 0.5 ug/l
 Total Xylenes ND < 1.0 ug/l
 Naphthalene ND < 2.0 ug/l
 Fuel Oxygenates ND
 Lead Scavengers (EDB, EDC) ND

- LEGENDS:**
- BORINGS DRILLED IN 2007
 - DRILLED BORINGS ON 01/25/2012
 - PROPOSED BORINGS
 - DRILLED AND CLOSED TEMPORARY PIEZOMETERS (2012)

EEC
 EAGLE ENVIRONMENTAL COMPANY
 4909 THIRD STREET
 SAN FRANCISCO, CA 94124

DEPICTED GROUNDWATER ANALYTICAL RESULTS
 2145 35TH AVENUE, OAKLAND, CALIFORNIA

FIGURE 9
 (DEPICTION OF GROUDWATER RESULTS)
 FEBRUARY 4, 2012

