

Detterman, Mark, Env. Health

From: Bob Clark-Riddell <briddell@pangeaenv.com>
Sent: Thursday, June 08, 2017 5:38 PM
To: Detterman, Mark, Env. Health
Subject: RE: 51st & Broadway Redevelopment (RO3186)
Attachments: Fig 4 Lead Analytical Data 060617.pdf; Tables 1 Soil Aalytical Data_Desmond_6-6-2017.pdf

Mark,

We have completed soil sampling to facilitate shallow soil removal and offsite disposal. Attached is a figure and table of results. The figure also shows the approximate depth of the planned excavation for development. Your letter referenced confirmation and sidewall samples.

Do we need any additional confirmation or sidewall samples? Our sampling provided additional lateral and vertical delineation. All soil above Tier 1 ESLs will be removed down to this new data. The only remaining sidewalls to sample would be along the sidewalks (west and north), and deeper soil along the east (adjacent development) and south (adjacent residence) where no lead has been found.

Bob Clark-Riddell, P.E.
Pangea Environmental Services, Inc.
510.435.8664 direct

From: Detterman, Mark, Env. Health [mailto:Mark.Detterman@acgov.org]
Sent: Monday, May 01, 2017 3:47 PM
To: Bob Clark-Riddell <briddell@pangeaenv.com>
Subject: RE: 51st & Broadway Redevelopment (RO3186)
Importance: High

Bob,
I've tweaked the public flyer and have attached it for your use and distribution. It's on ACDEH letterhead to help provide additional "authenticity". I've modified the comment period date, but per the meeting, I expect Dilan will allow actions prior to the final date.

Mark Detterman
Senior Hazardous Materials Specialist, PG, CEG
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Alameda, CA 94502
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PDF Copies of case files can be downloaded at:
<http://www.acgov.org/aceh/lop/ust.htm>

From: Bob Clark-Riddell [mailto:briddell@pangeaenv.com]
Sent: Wednesday, April 26, 2017 10:29 AM

LEGEND

- DP-1-1.5** Shallow Soil Location, (Sample ID suffix denotes depth in ft)
- D-1-3** Deeper Soil Location, (Sample ID suffix denotes depth in ft)
- 3.0'** Planned Development Grade Depth, ft
- *** Minimum 12" Top Soil Import Area
- 1.5'** Former Lead Excavation Extent
- 87** Total Lead Concentration, mg/kg
- (7.2/0.5)** STLC/TCLP Lead mg/L
- II** Class Soil II Soil (0-2')
- CH** Non-RCRA Hazardous Soil (0-2')
- Sloped soil

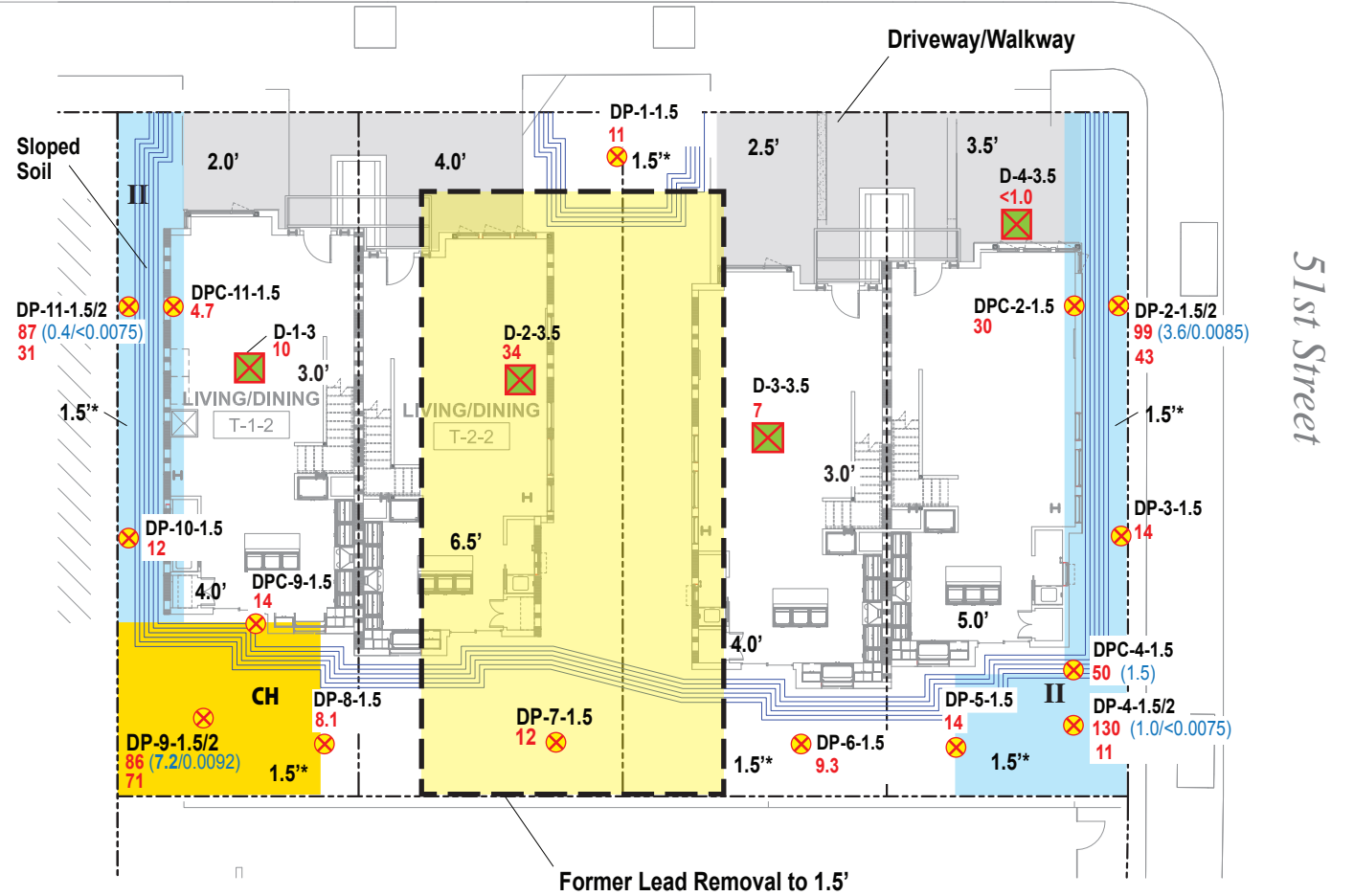


Figure
4

4974, 4970, 4966 and 4964 Desmond Street
Oakland, California



Lead Analytical Data

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Table 1. Soil Analytical Data - 4974, 4970, 4966 and 4964 Desmond Street, Oakland, California

Boring/ Sample ID	Date Sampled	Sample Depth (ft bgs)	TPH _g	TPH _d (TPH _{ss})	TPH _m	VOCs	SVOCs	PCBs	OC Pesticides	Asbestos	Average	Barium	Beryllium	Chromium (TTLc)	Cobalt	Copper	Lead (TTLc)	Lead (STLc*)	Lead (TCLP*)	Mercury	Nickel	Vanadium	Zinc	Other Metals	Notes
			mg/kg																						
Soil Tier 1 ESL (Shallow Soil)			100	230 (100)	5,100	varies	varies	0.25	varies	NA	0.067	3000	42	NV	23	3,100	80	NA	NA	13	86	390	23000	Varies	
Direct Exposure: Any Land Use, Any Depth (CW):			2,800	880 (630)	32,000	varies	varies	5.6	varies	NA	0.98	3,000	42	NV	23	14,000	160	NA	NA	44	86	470	110,000	Varies	
Odor/Nuisance: Any Land Use, Deep Soil (CW):			500	1000 (500)	---	varies	varies	1000	varies	NA	NV	NV	NV	NV	NV	NV	NV	NA	NA	1000	NV	NV	NV	Varies	

May 2017_Soil Assessment

DP-1-1.5	5/12/2017	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11	--	--	--	--	--	--	--
DP-2-1.5	5/12/2017	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	99	3.6	0.0085	--	--	--	--	--
DP-2-2	5/12/2017	2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	43	--	--	--	--	--	--	--
DPC-2-1.5	6/1/2017	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	30	--	--	--	--	--	--	--
DP-3-1.5	5/12/2017	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14	--	--	--	--	--	--	--
DP-4-1.5	5/12/2017	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	130	1.0	<0.0075	--	--	--	--	--
DP-4-2	5/12/2017	2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11	--	--	--	--	--	--	--
DPC-4-1.5	6/1/2017	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50	1.5	--	--	--	--	--	--
DP-5-1.5	5/12/2017	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14	--	--	--	--	--	--	--
DP-6-1.5	5/12/2017	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.3	--	--	--	--	--	--	--
DP-7-1.5	5/15/2017	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12	--	--	--	--	--	--	--
DP-8-1.5	5/12/2017	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.1	--	--	--	--	--	--	--
DP-9-1.5	5/12/2017	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	86	7.2	0.0092	--	--	--	--	--
DP-9-2	5/12/2017	2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	71	--	--	--	--	--	--	--
DPC-9-1.5	6/1/2017	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14	--	--	--	--	--	--	--
DP-10-1.5	5/12/2017	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12	--	--	--	--	--	--	--
DP-11-1.5	5/12/2017	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	87	0.4	<0.0075	--	--	--	--	--
DP-11-2	5/12/2017	2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	31	--	--	--	--	--	--	--
DPC-11-1.5	6/1/2017	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.7	--	--	--	--	--	--	--
D-1-3	5/15/2017	3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10	--	--	--	--	--	--	--
D-2-3.5	5/12/2017	3.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	34	--	--	--	--	--	--	--
D-3-3.5	5/15/2017	3.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7	--	--	--	--	--	--	--
D-4-3.5	5/15/2017	3.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.0	--	--	--	--	--	--	--

2016_Soil Profiling Assessment

S11-2(B2)	11/19/2015	2.0	<10	<10	<10	<0.010	<1.0	0.04	<0.20	ND	<5.0	120	<1.0	18	4.0	11	<3.0	--	--	0.10	16	20	20	ND	PCB = aroclor 1254 (0.04 mg/kg)
S12-0.5'(B1)	11/19/2015	0.5	<10	<10	<10	<0.010	--	--	--	ND	5.4 c	200	<1.0	12	6.0	15	87	a	--	0.26	14	12	12	ND	Insufficient soil for all analyses.
S12-0.5'(B1)(2)	11/25/2015	0.5	--	--	--	--	b	<0.010	<0.20	--	--	--	--	--	--	--	110	3.4	<0.20	--	--	--	--	Second sample due to insufficient soil.	
S12-NSW-0.5'	3/18/2016	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	160	7.9	0.21	--	--	--	--	--	
S12-NSW2-0.5'	3/30/2016	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13	--	--	--	--	--	--	--	
S12-SSW-0.5'	3/18/2016	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	23	--	--	--	--	--	--	--	
S12-WSW-0.5'	3/18/2016	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	55	2.1	<1.0	--	--	--	--	--	
S12-ESW-0.5'	3/18/2016	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	93	4.1	<1.0	--	--	--	--	--	
S12-ESW2N-0.5'	4/4/2016	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	400	36	0.35	--	--	--	--	--	
S12-ESW2S-0.5'	4/4/2016	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	110	5.3	<0.050	--	--	--	--	--	
S12-ESW3N-0.5'	4/4/2016	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	260	16	0.066	--	--	--	--	--	
S12-ESW3S-0.5'	4/4/2016	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	110	4.3	--	--	--	--	--	--	
S12-ESW4N-0.5'	4/8/2016	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	140	4.4	<0.050	--	--	--	--	--	
S12-ESW4N-1.5'	4/8/2016	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	32	--	--	--	--	--	--	--	
S12-ESW4N-2.5'	4/8/2016	2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17	--	--	--	--	--	--	--	
S12-ESW4S-0.5'	4/8/2016	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	98	4.4	<0.050	--	--	--	--	--
S12-B1-1.5'	4/4/2016	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16	--	--	--	--	--	--	--	

Notes and Abbreviations:

TPH (g, d, and m) - Total Petroleum Hydrocarbons (as gasoline, diesel, and motor oil) by EPA Method 8015C. Silica gel cleanup on 1/27/16 analyses for TPHd and TPHm.

VOCs = Volatile Organic Compounds by EPA Method 8260B; January 2016 analysis included BTEX analyses by Method 8021 (sample PB-4-5' reported full 8260 list).

H = VOCs by EPA Method 8260B (reported Method 8010 list for chlorinated VOCs).

SVOCs = Semivolatile Organic Compounds by EPA Method 8270C.

PCB = Polychlorinated Biphenyls by EPA Method 8082.

OC Pesticides = Organochloride Pesticides by EPA Method 8081A.

Asbestos = Asbestos by EPA Method 600 with CARB 435 and 0.25% Target Sensitivity.

Metals by EPA Method 6010B.

mg/Kg = milligrams per Kilogram.

ft bgs = Depth below ground surface (bgs) in feet.

< n = Chemical not present at a concentration in excess of detection limit shown.

Bold = Lead concentrations above 80 mg/kg ESL are bold.

11 = Exceeds **Non-RCRA hazardous** waste screening criteria for lead.

140 = Exceeds **Class II waste** screening criteria for lead of 80 mg/kg.

-- = Not analyzed

TTLc = Total Threshold Level Concentration. TCLP = Toxic Characteristic Leaching Potential

STLc = Solubility Threshold Level Concentration. TCLP = Toxic Characteristic Leaching Potential

* = STLc and TCLP analytical results reported in milligrams per liter (mg/L). <5 mg/L STLc and TCLP lead is non-hazardous.

** = Approximate depth below planned foundation. Sample collected in pit within cavity of former basement of dry cleaning facility.

ESL established by the SFBRWQCB, Interim Final - February 2007 and amended in February 2016 (Rev 3). Deep soil applies to soil >10 ft depth below grade or building slab.

a = Insufficient sample volume to perform this extraction/analysis.

b = Select SVOCs detected well below ESLs. This soil area was overexcavated to 1.5 ft and disposed offsite.

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Table 1. Soil Analytical Data - 4974, 4970, 4966 and 4964 Desmond Street, Oakland, California

Boring/ Sample ID	Date Sampled	Sample Depth (ft bgs)	mg/kg																				Notes	
			TPHg	TPHh (TPHhs)	TPHmp	VOCs	SVOCs	PCBs	OC/Pesticides	Arsenic	Average	Barium	Beryllium	Chromium (TTLc)	Cadmium	Copper	Lead (TTLc)	Lead (STLc*)	Lead (TCLP**)	Mercury	Nickel	Vanadium		Zinc
Soil Tier 1 ESL (Shallow Soil)			100	230 (100)	5,100	varies	varies	0.25	varies	NA	0.067	3000	42	NV	23	3,100	80	NA	NA	13	86	390	23000	Varies
Direct Exposure: Any Land Use, Any Depth (CW):			2,800	880 (630)	32,000	varies	varies	5.6	varies	NA	0.98	3,000	42	NV	23	14,000	160	NA	NA	44	86	470	110,000	Varies
Odor/Nuisance: Any Land Use, Deep Soil (CW):			500	1000 (500)	---	varies	varies	1000	varies	NA	NV	NV	NV	NV	NV	NV	NV	NA	NA	1000	NV	NV	NV	Varies

c = Arsenic concentrations likely represent background conditions.
 NV = No value
 CW = Construction Worker