Wickham, Jerry, Env. Health

From: Tom Graf [tom@grafcon.us]
Sent: Monday, April 28, 2014 4:40 PM
To: Wickham, Jerry, Env. Health
Cc: Andy Lojo (Andy.Lojo@anteagroup.com)
Subject: Fwd: FW: PS #CA13186 Newark, CA - Phase II Summary
Attachments: Figure 1 - Boring Location Map - DRAFT.pdf; 20140409 PS Newark Soil Data Tables - DRAFT.pdf

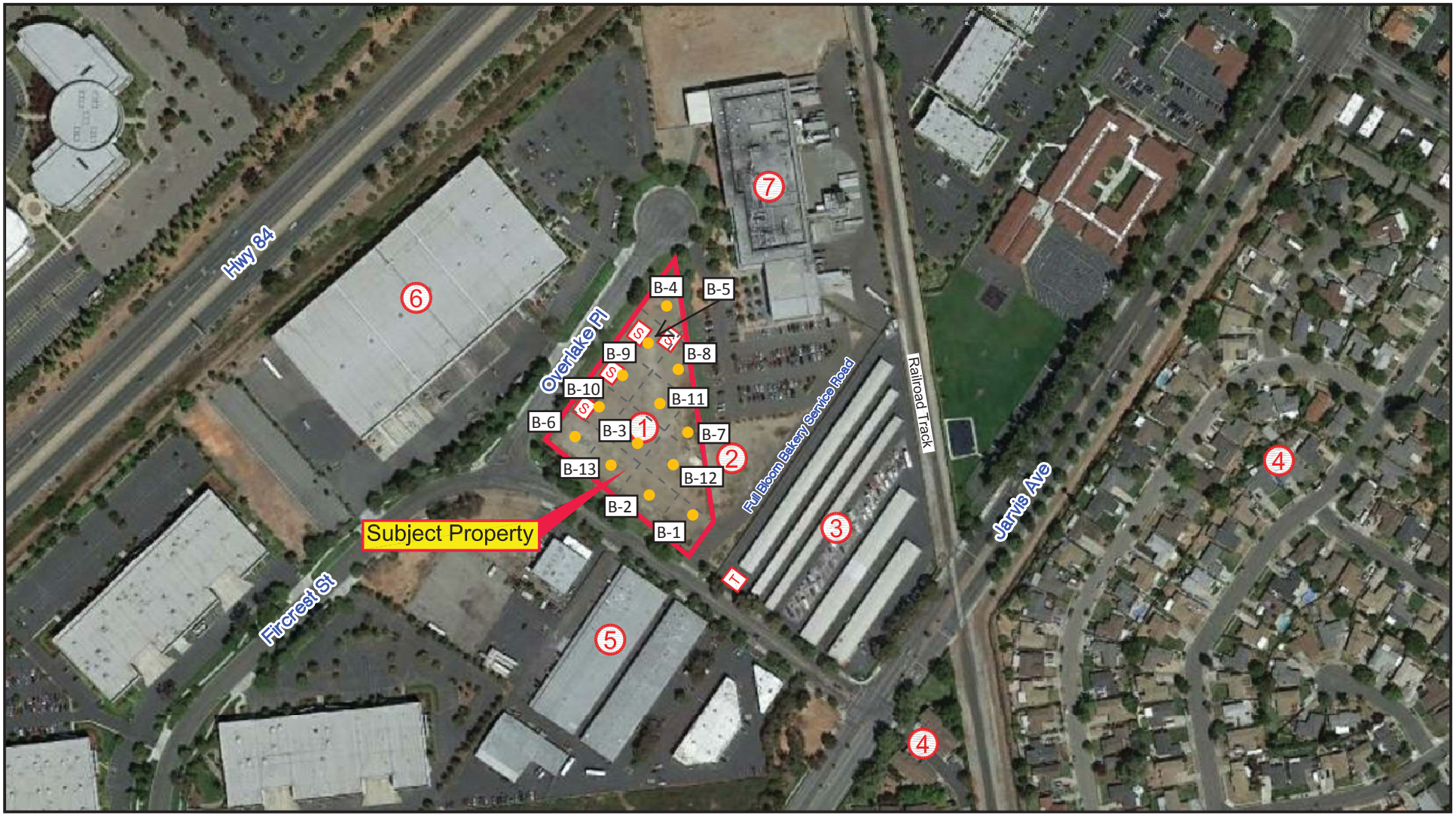
Jerry - with this email, I'm connecting you with Andy Lojo of the Antea Group (phone - 510 588 8524) , who did the work at the site. The attached figure and tables indicate the results. Andy can explain in more detail, but the work was done as Phase II due diligence for Public Storage, who is in contract to buy the site. Antea's samples showed what appears to be slag in site fill within the near-surface soil across the site. Because the drilling permit went through ACWD, and it isn't a groundwater site, the site now needs to be transferred. Site development will be commercial. Because site development requires net fill, the concept is to cap the material with an SMP and deed restriction.

The contact at ACWD is Eileen Chen.

Andy - please provide additional information to Jerry that he may need.

Regards,
Tom

--
Tom Graf
GrafCon
P.O. Box 1105
Tiburon, CA 94920
415-290-5034



anteagroup

LEGEND

- SUBJECT PROPERTY BOUNDARY
- ① PUBLIC STORAGE #CA13186 6800 OVERLAKE PLACE
- ② VACANT LOT
- ③ PUBLIC STORAGE
- ④ RESIDENTIAL
- ⑤ MULTI-TENANT WAREHOUSE/OFFICE
- ⑥ PROLOGIS NEWARK
- ⑦ FULL BLOOM BAKERY
- B-1 SOIL BORING LOCATION
- T PAD-MOUNTED TRANSFORMER
- S STORM DRAIN

0 N 300 FT

SCALE

FIGURE 1: Subject Property & Soil Boring Locations
Public Storage #CA13186
6800 Overlake Place
Newark, CA 94560

PREPARED FOR: Public Storage
PROJ. MGR:
DRAWN BY: Karen Thole

DATE: 02/13/2014
PROJ.#. 140106691P

REFERENCE TABLE FOR PHASE II ESA ANALYTICAL RESULTS SUMMARY - DRAFT

Public Storage #CA13186
6800 Overlook Place
Newark, CA 94560

Table 1
Sample Analysis Matrix - DRAFT
Public Storage #CA13186
6800 Overlook Place
Newark, CA 94560

Sample ID	Hold	CAM 17 Metals (SW6020/6020A)	Organochlorine Pesticides (EPA 8081A)
B-1d1.0		x	x
B-1d3.0		x	x
B-1d5.0	x	x	x
B-2d1.0		x	x
B-2d3.0		x	x
B-2d5.0	x	x	x
B-3d1.5		x	x
B-3d3.0		x	x
B-3d4.5	x	x	x
B-4d1.0		x	x
B-4d3.0		x	x
B-4d4.5	x	x	x
B-5d1.0		x	x
B-5d3.0		x	x
B-5d4.5	x	x	x
B-6d1.0		x	x
B-6d3.0		x	x
B-6d4.5	x	x	x
B-7-d1.0		x	x
B-7d3.0		x	x
B-7d4.5	x	x	x
B-8d1.5		x	x
B-8d3.0		x	x
B-8d4.5	x	x	x
B-9d1.5		x	x
B-9d3.0		x	x
B-9d4.5	x	x	x
B-10d1.0		x	x
B-10d3.0		x	x
B-10d4.5	x	x	x
B-11d1.0		x	x
B-11d3.0		x	x
B-11d4.5	x	x	x
B-12d1.0		x	x
B-12d3.0		x	x
B-12d4.5	x	x	x
B-13d1.0		x	x
B-13d3.0		x	x
B-13d4.5	x	x	x

Table 2
ANALYTICAL RESULTS FOR METALS IN SOIL SAMPLES - DRAFT
Public Storage #CA13186
6800 Overlook Place
Newark, CA 94560

CONCENTRATIONS[1] [milligrams per kilogram (mg/kg)]																		
SFBRWQCB Industrial ESLs[2] (Shallow)			*40*	*1.6*	*1,500*	*8*	*12*	*2,500 (Total Cr)*	*80*	*230*	*320*	*10*	*40*	*150*	*10*	*40*	*10*	*200*	*600*
Background Reference Concentrations[3]			*0.45-1.4*	*4-6.7*	*493-556*	*0.77-1.75*	*8243-24853*	*38-50*	*8.1-9.3*	*11.8-22.3*	*14.6-22.4*	*0.1-0.4*	*3.7-9.6*	*21-27*	*0.015-0.18*	*0.28-0.39*	*13.7-30.1*	*58-83*	*152-180*
Background Reference Concentrations[4]			*<1*	*10.0*	*700*	*1-1.5*	*NA*	*100-2000*	*10*	*30*	*15*	*0.051*	*3.0-15*	*30-700*	*0.7-5*	*NA*	*NA*	*150-500*	*74*
CHHSLs[5]			*380*	*0.24*	*63,000*	*1,700*	*7.5*	*100,000 (Cr III)*	*3,200*	*38,000*	*3,500*	*180*	*4,800*	*16,000*	*4,800*	*4,800*	*63*	*6,700*	*100,000*
Sample ID	Sample Depth (feet)	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
B-1d1.0	1.0	04/01/14	<0.75	***7.8***	**350**	**0.47**	**6.7**	***780***	***11***	***130***	***510***	***0.080***	***13***	***110***	<0.75	***1.1***	<0.75	***64***	***4,800***
B-1d3.0	3.0	04/01/14	<0.75	***7.6***	**220**	**0.52**	<0.50	***85***	***14***	***29***	**10**	<0.050	**1.2**	***93***	<0.75	<0.25	<0.75	**46**	***75***
B-2d1.0	1.0	04/01/14	<0.75	***7.2***	**220**	**0.35**	**3.8**	***400***	***9.9***	***120***	***300***	***0.052***	***5.8***	***63***	<0.75	***0.63***	<0.75	**52**	***1,800***
B-2d3.0	3.0	04/01/14	<0.75	***7.8***	**230**	**0.49**	**2.3**	***190***	***14***	***70***	***150***	<0.050	**2.9**	***85***	<0.75	***0.40***	<0.75	**52**	***1,100***
B-3d1.5	1.5	04/02/14	***0.98***	***11***	**260**	**0.37**	**6.5**	***490***	***12***	***260***	***420***	***0.074***	***12***	***100***	<0.75	***0.96***	<0.75	**56**	***3,200***
B-3d3.0	3.0	04/02/14	<0.75	***8.0***	**200**	**0.54**	<0.50	***83***	***13***	***30***	**10**	<0.050	**0.40**	***90***	<0.75	<0.25	<0.75	**47**	**73**
B-4d1.0	1.0	04/02/14	<0.75	***9.5***	**430**	**0.33**	**8.3**	***1,100***	**7.2**	***210***	***700***	***0.062***	***17***	***70***	<0.75	<1.2	<3.7	***65***	***4,600***
B-4d3.0	3.0	04/02/14	<0.75	***7.2***	**470**	**0.49**	**3.2**	***380***	***11***	***110***	***250***	***0.068***	***4.8***	***77***	<0.75	***0.55***	<0.75	**55**	***1,400***
B-5d1.0	1.0	04/02/14	<0.75	***9.8***	***510***	**0.37**	**19**	***1,300***	**6.0**	***260***	***1,400***	***0.094***	***23***	***66***	<3.8	***1.8***	<3.8	***69***	***8,100***
B-5d3.0	3.0	04/02/14	<0.75	***8.0***	**350**	**0.54**	<0.50	***88***	***13***	***30***	***11***	<0.050	**0.64**	***91***	<0.75	<0.25	<0.75	**48**	***77***
B-6d1.0	1.0	04/02/14	<0.75	***20***	**350**	**0.51**	**5.0**	***290***	**6.4**	***71***	***340***	***0.084***	***7.0***	***44***	***0.86***	***0.68***	<0.75	**50**	***2,100***
B-6d3.0	3.0	04/02/14	<0.75	***8.3***	**270**	**0.56**	<0.50	***92***	***14***	***32***	**12**	<0.050	**0.56**	***93***	<0.75	<0.25	<0.75	**49**	***82***
B-7-d1.0	1.0	04/02/14	<0.75	***12***	**400**	**0.53**	**12**	***630***	***9.9***	***230***	***750***	***0.14***	***7.8***	***73***	<0.75	***1.5***	<1.5	***65***	***5,200***
B-7d3.0	3.0	04/02/14	<0.75	***8.2***	**250**	**0.57**	<0.50	***89***	***15***	***33***	**13**	<0.050	**1.0**	***97***	<0.75	<0.25	<0.75	**50**	***87***
B-8d1.5	1.5	04/02/14	<0.75	***5.4***	**170**	**0.54**	<0.50	***88***	***14***	***34***	***22***	<0.050	**0.44**	***82***	<0.75	<0.25	<0.75	**49**	***120***
B-8d3.0	3.0	04/02/14	<0.75	***8.0***	**260**	**0.54**	<0.50	***91***	***12***	***31***	***14***	<0.050	**0.40**	***92***	<0.75	<0.25	<0.75	**49**	***110***
B-9d1.5	1.5	04/02/14	<0.75	***8.1***	**240**	**0.55**	**2.0**	***220***	***14***	***53***	***160***	<0.050	**1.8**	***88***	<0.75	***0.30***	<0.75	**53**	***1,200***
B-9d3.0	3.0	04/02/14	<0.75	***8.0***	**220**	**0.57**	<0.50	***88***	***15***	***32***	***17***	***0.074***	**0.46**	***95***	<0.75	*<0.25*	<0.75	**49**	***130***
B-10d1.0	1.0	04/02/14	<3.8	***8.4***	***500***	***1.7***	**9.9**	***2,200***	**3.9**	***340***	***640***	***0.20***	***37***	***50***	<0.75	***1.6***	<3.8	***84***	***5,600***
B-10d3.0	3.0	04/02/14	<0.75	***7.6***	**230**	**0.52**	<0.50	***110***	***12***	***33***	***39***	<0.050	**0.87**	***87***	<0.75	<0.25	<0.75	**46**	***200***
B-11d1.0	1.0	04/02/14	<0.75	***8.3***	**440**	**0.43**	**9.8**	***1,200***	**8.1**	***230***	***680***	<0.050	***14***	***68***	<0.75	<1.2	<3.6	***61***	***4,100***
B-11d3.0	3.0	04/02/14	***1.2***	***7.4***	**220**	**0.47**	<0.50	***83***	**13**	***23***	**14**	<0.050	**0.61**	***89***	<0.75	<0.25	<0.75	**42**	***95***
B-12d1.0	1.0	04/02/14	<0.75	***8.3***	**260**	**0.53**	**4.9**	***510***	**9.8**	***110***	***470***	***0.11***	***14***	***72***	<0.75	***0.69***	<0.75	***60***	***2,500***
B-12d3.0	3.0	04/02/14	<0.75	***7.7***	**210**	**0.48**	<0.50	***85***	**13**	***33***	***27***	<0.050	**0.87**	***91***	<0.75	<0.25	<0.75	**43**	***180***
B-13d1.0	1.0	04/02/14	<1.5	***13***	**370**	**0.40**	**20**	***730***	**7.7**	***310***	***1,300***	***0.32***	***19***	***79***	<1.5	***2.9***	<1.5	***67***	***9,600***
B-13d3.0	3.0	04/02/14	<0.75	***8.0***	**160**	**0.53**	<0.50	***82***	**15**	***32***	**8.8**	<0.050	**0.82**	***98***	<0.75	<0.25	<0.75	**45**	**60**

Notes:

Reported concentrations appear in BOLD text. Concentrations exceeding the ESLs appear in bolded RED text. Concentrations exceeding CHHSLs or background are *italized* .

NR - No reference level

NA - Not applicable or not analyzed

1. Metals analyzed by EPA Method 6010B, except mercury, which was analyzed by EPA Method 7471A.

2. San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) Environmental Screening Levels (ESLs) dated December 2013 for soils within commerical/industrial land use where groundwater may be a drinking water source. Shallow soil is classified as less than 9.84 ft deep.

3. Mean background soil concentration from *Background Concentrations of Trace and Major Elements in California Soils* , Kearney Foundation of Soil Science - Division of Agriculture and Natural Resources, University of California, March 1996.

4. Mean background soil concentrations from *Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States* , Shacklette and Boerngen, USGS, 1984

5. California Human Health Screening Levels (CHHSLs) dated January 2005 from *Table 1 - Soil and Soil Gas Screening Numbers for Nonvolatile Chemicals Based on Total Exposure to Contaminated Soil: Inhalation, Ingestion, and Dermal Absorption.*

Table 3
ANALYTICAL RESULTS FOR SELECT ORGANOCHLORINE PESTICIDES IN SOIL SAMPLES - DRAFT
Public Storage #CA13186
6800 Overlook Place
Newark, CA 94560

CONCENTRATIONS[1] [milligrams per kilogram (mg/kg)]																
SFBRWQCB Industrial ESLs[2] (Shallow)			*0.13*	*1.7*	*10*	*4*	*4*	*0.0023*	*0.0046[A]*		*NR*	*0.00065*	*NR*	*NR*	*0.013*	*0.00042*
CHHSLs[3]			*0.13*	*1.7*	*9*	*6.3*	*6.3*	*0.13*	*NR*	*NR*	*NR*	*230*	*NR*	*NR*	*0.52*	*1.8*
Sample ID	Sample Depth (feet)	Sample Date	Aldrin	Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Aldehyde	Endrin Ketone	Heptachlor	Toxaphene
B-1d1.0	1.0	04/01/14	<0.0050	<0.050	<0.0050	**0.360**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.099
B-1d3.0	3.0	04/01/14	<0.0051	<0.051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.100
B-2d1.0	1.0	04/01/14	<0.0050	<0.050	<0.0050	**0.018**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.099
B-2d3.0	3.0	04/01/14	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-3d1.5	1.5	04/02/14	<0.0051	<0.051	<0.0051	**0.016**	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.100
B-3d3.0	3.0	04/02/14	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.099
B-4d1.0	1.0	04/02/14	<0.0050	<0.050	<0.0050	**0.020**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.099
B-4d3.0	3.0	04/02/14	<0.0051	<0.051	<0.0051	**0.0052**	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.100
B-5d1.0	1.0	04/02/14	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-5d3.0	3.0	04/02/14	<0.0051	<0.051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.100
B-6d1.0	1.0	04/02/14	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.099
B-6d3.0	3.0	04/02/14	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-7-d1.0	1.0	04/02/14	<0.0050	<0.050	**0.0075**	**0.012**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-7d3.0	3.0	04/02/14	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-8d1.5	1.5	04/02/14	<0.0050	<0.050	**0.019**	**0.250**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-8d3.0	3.0	04/02/14	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-9d1.5	1.5	04/02/14	<0.0050	<0.050	<0.0050	**0.039**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-9d3.0	3.0	04/02/14	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-10d1.0	1.0	04/02/14	<0.0050	<0.050	<0.0050	**0.0056**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-10d3.0	3.0	04/02/14	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-11d1.0	1.0	04/02/14	<0.0050	<0.050	<0.0050	**0.029**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-11d3.0	3.0	04/02/14	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-12d1.0	1.0	04/02/14	<0.0050	<0.050	<0.0050	**0.049**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-12d3.0	3.0	04/02/14	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-13d1.0	1.0	04/02/14	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-13d3.0	3.0	04/02/14	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100

Notes:

Reported concentrations appear in BOLD text. If applicable, concentrations exceeding the ESLs appear in bolded RED text.

NR - No reference level

NA - Not applicable or not analyzed

DDD - dichlorodiphenyldichloroethane

DDE - dichlorodiphenyldichloroethylene

DDT - dichlorodiphenyltrichloroethane

1. Organochlorine pesticides (OCPs) analyzed by EPA Method 8081A. Additional OCPs were analyzed, but results were not tabulated herein; refer to the laboratory analytical report for complete results.

2. San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) Environmental Screening Levels (ESLs) dated December 2013 for soils within commerical/industrial land use where groundwater may be a drinking water source. Shallow soil is classified as less than 9.84 ft deep.

3. California Human Health Screening Levels (CHHSLs) dated January 2005 from *Table 1 - Soil and Soil Gas Screening Numbers for Nonvolatile Chemicals Based on Total Exposure to Contaminated Soil: Inhalation, Ingestion, and Dermal Absorption.*

A. The ESL listed is for Endosulfan, with no distinction made between Endosulfan I and Endosulfan II.