Table 1

CSO Soil Stockpile Sampling Results - April 2013 Pilot Sampling Event

Port Angeles Rayonier Mill Study Area
Port Angeles, Washington

Analyte	Volume I Unrestricted Soil Screening Level (a)	Stockpile ID:	Bin #1-1	Bin #1-2	Bin #1-3	Bin #1-4	Bin #1-5	Bin #1-6	Bin #1-7	Bin #1-8	Bin #2-1	Bin #2-2	Bin #2-3	Bin #2-4
		Sample ID:	SP1-1-(1-5)	SP1-2-(1-5)	SP1-3-(1-5)	SP1-4-(1-5)	SP1-5-(1-5)	SP1-6-(1-5)	SP1-7-(1-5)	SP1-8-(1-5)	SP2-1-(1-5)	SP2-2-(1-5)	SP2-3-(1-5)	SP2-4-(1-5)
		Date:	4/17/2013	4/17/2013	4/17-18/2013	4/18/2013	4/17/2013	4/17/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013	4/18/2013
TPH (mg/kg)														
Diesel-Range Petroleum Hydrocarbons	200		**18**	**64**	**34**	**11**	**63**	**16**	**21**	**28**	**21**	**22**	**24**	**33**
Heavy Oil-Range Petroleum Hydrocarbons	200		**75**	**300**	**100**	**33**	**190**	**68**	**96**	**95**	**110**	**86**	**96**	**140**
Metals (mg/kg)														
Antimony	5		**0.010 J**	**0.0138 J**	**0.020 J**	**0.0181 J**	**0.0389 J**	**0.010 J**	**0.0089 J**	0.1 U	**0.0177 J**	**0.0189 J**	**0.025 J**	**0.010 J**
Arsenic	20		10 U	**2.01 J**	**5.5 J**	10 U	**8.8 J**	**3.0 J**	**1.5 J**	**2.5 J**	**6.7 J**	**2.5 J**	**4.5 J**	**2.1 J**
Barium	102		**67.4**	**65.4**	**97.7**	**52.9**	**73.4**	**90.2**	**53.4**	**98.2**	**88.3**	**85.9**	**100**	**79.4**
Cadmium	4		**0.9**	**0.7**	**0.9**	**0.7**	**1.3**	**0.8**	**0.8**	**0.9**	**1.0**	**1.0**	**0.9**	**1.0**
Chromium (Total)	48		**51**	**27.8**	**46**	**36**	**38**	**45**	**32**	**51**	**45**	**48**	**45**	**45**
Cobalt	20		**16.8**	**9.3**	**18.1**	**12.3**	**12.5**	**15.4**	**11.8**	**18.8**	**15.4**	**14.5**	**15.3**	**15.5**
Copper	50		**51.4**	**39.0**	**76.5**	**40.2**	**72.0**	**34.3**	**44.7**	**34.8**	**52.0**	**64.2**	**64.0**	**61.0**
Lead	50		**4.80 J**	**53**	**50**	**12**	**48**	**8**	**19**	**3.02 J**	**27**	**43**	**48**	**28**
Manganese	1,200		**469**	**534**	**794**	**441**	**708**	**431**	**467**	**593**	**762**	**592**	**597**	**524**
Mercury	0.1		**0.05**	**0.15**	**0.17**	**0.05**	**0.13**	**0.05**	**0.06**	**0.05**	**0.11**	**0.09**	**0.12**	**0.08**
Nickel	48		**46**	**46.8**	**57**	**61**	**57**	**41**	**39**	**46**	**46**	**47**	**50**	**53**
Selenium	0.3		**0.152 J**	**0.078 J**	**0.213 J**	**0.068 J**	**0.095 J**	**0.135 J**	**0.044 J**	**0.179 J**	**0.124 J**	**0.170 J**	**0.172 J**	**0.078 J**
Silver	2		0.7 U	0.3 U	0.7 U	0.7 U	0.7 U	0.8 U	0.7 U	0.8 U	0.7 U	0.7 U	0.7 U	0.7 U
Thallium	1		**0.049 J**	**0.0368 J**	**0.056 J**	**0.0316 J**	**0.0476 J**	**0.045 J**	**0.0400 J**	**0.051 J**	**0.0444 J**	**0.0425 J**	**0.046 J**	**0.044 J**
Zinc	86		**65**	**74.7**	**98**	**62**	**95**	**69**	**59**	**67**	**103**	**93**	**96**	**79**
SVOCs (mg/kg) (b)														
1-Methylnaphthalene	35		0.019 U	0.019 U	0.019 U	0.019 U	**0.021**	0.019 U	0.018 U	0.019 U	0.018 U	0.019 U	**0.022**	0.020 U
2-Methylnaphthalene	320		0.019 U	**0.025**	**0.030**	0.019 U	**0.037**	0.019 U	0.018 U	0.019 U	**0.020**	**0.024**	**0.035**	0.020 U
Acenaphthene	20		0.019 U	0.019 U	0.019 U	0.019 U	**0.027**	0.019 U	0.018 U	0.019 U	0.018 U	0.019 U	**0.041**	0.020 U
Acenaphthylene	NE		0.019 U	0.019 U	0.019 U	0.019 U	**0.026**	0.019 U	0.018 U	0.019 U	0.018 U	0.019 U	0.020 U	0.020 U
Anthracene	24,000		0.019 U	0.019 U	**0.020**	0.019 U	**0.11**	0.019 U	0.018 U	0.019 U	**0.021**	0.019 U	**0.034**	0.020 U
Benzo (g,h,i) perylene	NE		0.019 U	**0.077**	**0.034**	0.019 U	**0.22**	0.019 U	**0.030**	0.019 U	**0.041**	**0.046**	**0.055**	**0.053**
bis (2-ethylhexyl) Phthalate	71		0.023 U	**0.026 B**	**0.027 B**	0.024 U	**0.033 B**	**0.025 B**	0.023 U	0.024 U	0.023 U	0.024 U	0.024 U	**0.052 B**
Carbazole	50		0.019 U	0.019 U	0.019 U	0.019 U	**0.040**	0.019 U	0.018 U	0.019 U	**0.020**	0.019 U	**0.029**	0.020 U
Dibenzofuran	160		0.019 U	0.019 U	**0.040**	0.019 U	**0.041**	0.019 U	0.018 U	0.019 U	**0.023**	**0.020**	**0.056**	0.020 U
Diethylphthalate	100		0.046 U	0.047 U	0.047 U	0.048 U	0.050 U	**0.055 B**	0.046 U	0.048 U	0.046 U	0.048 U	0.049 U	0.049 U
Dimethylphthalate	200		0.019 U	0.019 U	0.019 U	**0.020**	0.020 U	0.019 U	0.018 U	0.019 U	**0.056**	0.019 U	0.020 U	0.020 U
Fluoranthene	3,200		**0.028**	**0.077**	**0.20**	**0.035**	**0.41**	**0.024**	**0.13**	0.019 U	**0.13**	**0.14**	**0.25**	**0.16**
Fluorene	30		0.019 U	0.019 U	**0.020**	0.019 U	**0.042**	0.019 U	0.018 U	0.019 U	0.018 U	0.019 U	**0.042**	0.020 U
Naphthalene	1,600		**0.022**	**0.038**	**0.15**	0.019 U	**0.068**	**0.020**	**0.028**	0.019 U	**0.031**	**0.058**	**0.14**	**0.043**
Phenanthrene	NE		**0.032**	**0.092**	**0.23**	**0.032**	**0.35**	**0.028**	**0.057**	0.019 U	**0.10**	**0.13**	**0.29**	**0.12**
Pyrene	2,400		**0.027**	**0.091**	**0.18**	**0.031**	**0.45**	**0.026**	**0.12**	0.019 U	**0.11**	**0.14**	**0.24**	**0.15**
Total cPAHs TEC	0.14		0.014 U	**0.060**	**0.047**	0.014 U	**0.51**	0.014 U	**0.037**	0.014 U	**0.068**	**0.071**	**0.082**	**0.078**
Dioxins/Furans (mg/kg)														
Total Dioxins/Furans TEC	5.2E-06		**5.05E-06**	**4.84E-05**	**2.24E-05**	NA	**1.04E-04**	**4.26E-06**	NA	**5.90E-06**	**1.55E-05**	NA	NA	**1.51E-05**
PCBs (mg/kg)														
Total PCBs (sum of Aroclors)	0.5		0.032 U	**0.044**	**0.12**	0.033 U	**0.30**	0.033 U	0.032 U	0.033 U	0.032 U	**0.054**	**0.19**	**0.088**

Notes:

(a) The Volume I unrestricted soil screening levels are taken from the Public Review Draft Interim Action Report Volume I (April 2012). Listed values are based on lowest of soil concentrations protective of human health direct-contact (MTCA Method B standard formula value) and MTCA default concentrations protective of terrestrial plants, soil biota, and wildlife (MTCA Table 749-3 values), adjusted for background and practical quantification limits.

(b) Only results for SVOCs that had one or more positive detections are shown; the target analyte list included 66 individual SVOC constituents.

For analytes with no established MTCA Method B values in the CLARC database, MTCA Method A cleanup levels for unrestricted land use were used if available.

J = The listed value is an estimated concentration below the laboratory's established reporting limit.

U = The target analyte was not detected at the reported concentration.

B = The target analyte was detected in an associated method blank at a concentration greater than one-half the laboratory's reporting limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.

mg/kg = Millgrams per kilogram

PAHs = Polycyclic aromatic hydrocarbons

cPAHs = Carcinogenic polycyclic aromatic hydrocarbons

PCBs = Polychlorinated biphenyls

SVOCs = Semivolatile organic compounds

TEC = Toxic equivalent concentration

TPH = Total petroleum hydrocarbons

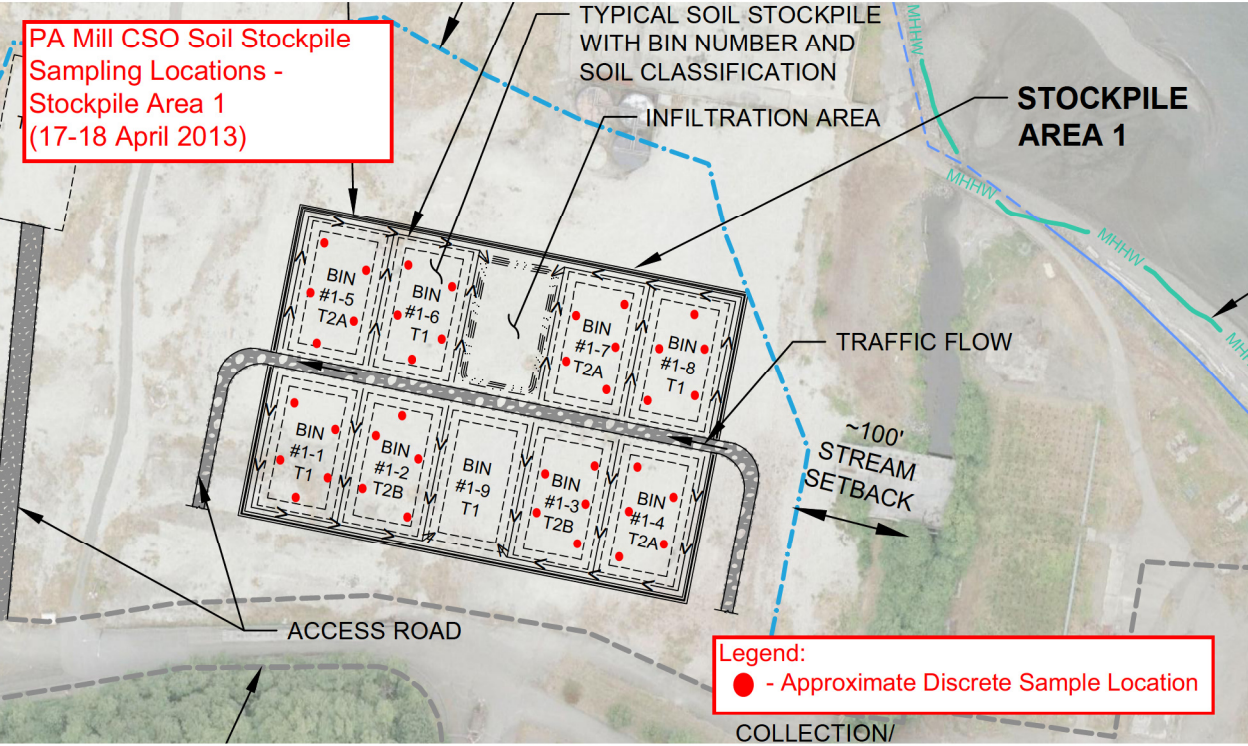
NA = Not analyzed

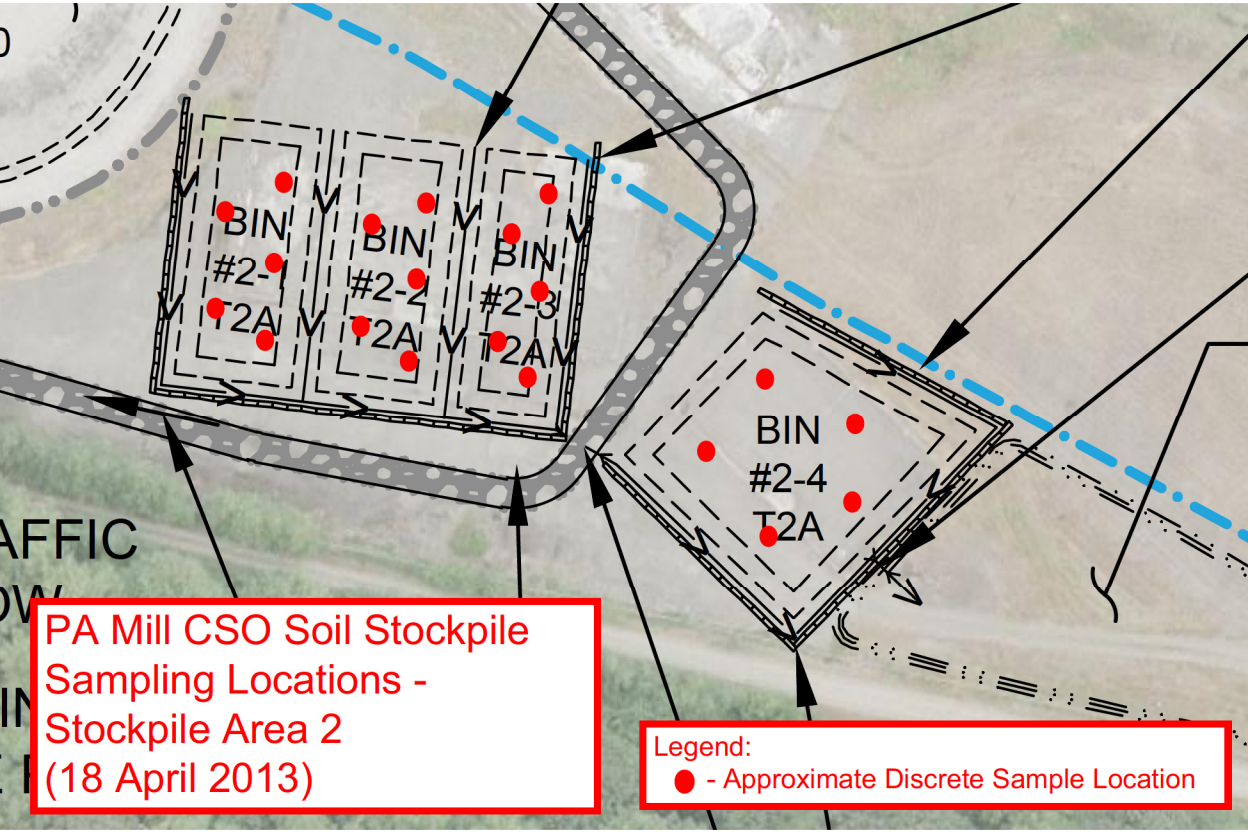
NE = No numerical criteria established for human health direct-contact in CLARC database or for terrestrial ecological receptors in MTCA Table 749-3.

Positive detections are shown in **bold** typeface.

Yellow highlighting indicates value exceeds Volume I unrestricted soil screening level.

Red typeface indicates value exceeds Volume I unrestricted soil screening level by a factor of ten or more.


PA Mill CSO Soil Stockpile Sampling Locations - Stockpile Area 1 (17-18 April 2013)
TYPICAL SOIL STOCKPILE WITH BIN NUMBER AND SOIL CLASSIFICATION
INFILTRATION AREA
STOCKPILE AREA 1
MHHW
MHHW
MHHW
TRAFFIC FLOW
~100' STREAM SETBACK
BIN #1-5 T2A
BIN #1-6 T1
BIN #1-7 T2A
BIN #1-8 T1
BIN #1-1 T1
BIN #1-2 T2B
BIN #1-9 T1
BIN #1-3 T2B
BIN #1-4 T2A
ACCESS ROAD
Legend:
- Approximate Discrete Sample Location
COLLECTION/


BIN
#2-1
T2A
BIN
#2-2
T2A
BIN
#2-3
T2A
BIN
#2-4
T2A
PA Mill CSO Soil Stockpile Sampling Locations - Stockpile Area 2 (18 April 2013)
Legend:
- Approximate Discrete Sample Location