

## WASTE CHARACTERIZATION: IN-SITU SOIL LOCATED AT ISRA AREA II PLANNED EXCAVATION LOX-1B-1

### **Introduction**

This report presents supporting detailed information relating to the October 13, 2010 in-situ characterization of prospective soil wastes at the planned ISRA excavation LOX-1B-1 in SSFL Area II.

### **Background**

Soil to be excavated from designated locations in accordance with the ISRA Workplan for SSFL Area II was characterized prior to excavation. A step-by-step approach was followed to accomplish the in-situ characterization. The first step was to review available historical activity and chemical usage information, as well as existing analytical data from past soil sampling in the area. The objective was to identify all substances that could have an impact on determining whether soil in the planned excavation footprint was hazardous or not.

Once potential impacts to the soil were identified, the next step was to develop a random sampling plan for each planned excavation footprint. Samples were collected according to the plan and analyzed by a state certified laboratory. Analytical results provided by the laboratory were evaluated to determine whether any regulated substances were present at concentrations exceeding regulatory thresholds governing waste management. Furthermore, the results were also evaluated to assure adequacy for waste characterization purposes based upon the guidelines presented in U.S. EPA SW-846. If the number of samples was not sufficient, additional samples would be collected and analyzed. In lieu of further sampling, the soil could be characterized as hazardous.

The review of historical information and existing analytical data relevant to planned excavation LOX-1B-1 was based largely on the Group 2 RFI results. Evaluation of these data and other sources of relevant information suggested that Regulated Metals, Petroleum Hydrocarbons (TPH), and Volatile Organic Compounds (VOC) should be addressed in the LOX-1B-1 excavation footprint. A random sampling plan was developed for collection of seven (7) samples from the planned excavation footprint. The samples were analyzed for CAM 17 metals, TPH, and VOCs. All samples were collected, contained, and handled according to field practice requirements in SW-846.

### **Results**

Analytical results for the LOX-1B-1 planned excavation area are presented in TestAmerica report ITJ1356 issued on 10/20/10. Regulated metals were detected, but in no case exceeded any applicable regulatory thresholds. With respect to hazardous waste regulations, Chromium was the most significant detection, with concentrations ranging from 19 mg/kg to 28 mg/kg. Lead was detected at a maximum concentration of 19 mg/kg. Both metals were below the California 10 X STLC hazardous waste threshold of 50 ppm. Only trace concentrations of TPH were detected. C10 - C40 Petroleum Hydrocarbons were detected at concentrations ranging from 15 mg/kg to 22 mg/kg. TPH itself is not directly regulated and does not begin to affect waste disposal until concentrations attain 100 mg/kg. Despite very low Method Detection Limits, no VOCs were detected.

**Determination**

According to analytical results and generator knowledge, the soil in the planned excavation footprint of SSFL Area II LOX-1B-1:

Is Not a Listed Waste (analytical results and generator knowledge)

Is Not ignitable (generator knowledge)

Is Not corrosive (generator knowledge)

Is Not reactive (generator knowledge)

Is Not toxic (analytical results and generator knowledge)

Is Not Extremely or Acutely Hazardous Waste

Does not exceed any RCRA or Title 22 characteristic thresholds









Is Not subject to the Prop. 65 listing



Is Not subject to Title 22 Appendix X list

Is Not known by experience or testing to pose a hazard to human health or environment because of its carcinogenicity, acute toxicity, chronic toxicity, bio-accumulative properties, or persistence in the environment.

**The soil in SSFL Area II LOX-1B-1 is NON-HAZARDOUS.**

# Outfall 009 Waste Characterization Sample Locations for LOX-1B-1

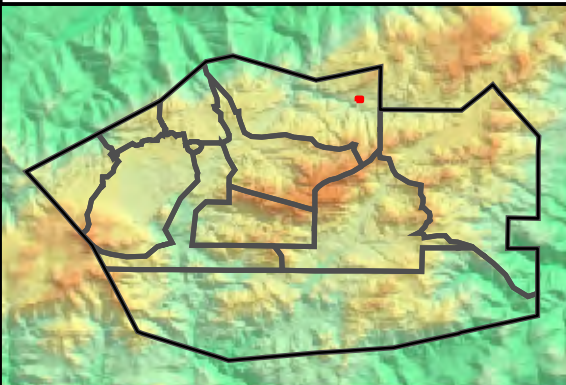
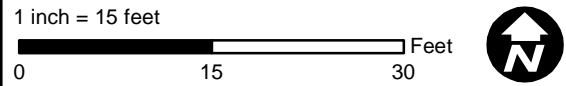
- Base Map Legend**
-  Administrative Area Boundary
  -  Drainage
  -  RFI Site Boundary
  -  Non Jurisdictional Surface Water Pathway
  -  Report Group Boundary
  -  Surface Water Divide
  -  NPDES Outfall
  -  A/C Paving

- Base Map Legend**
-  ISRA Excavation Boundary
  -  Waste Characterization Sample Location

**Note:**

1. Sample locations and depths were randomly selected. The 3ft x 3ft grid used in the sample location selection process is shown.
2. Aerial imagery from Google Earth, 2010.
3. Topographic contours from Lidar data, 2008.

Document: ISRA\_Plots\_Working\_LOX-1-B1\_SampleLocations\_WC.mxd Date: Nov 05, 2010



SANTA SUSANA FIELD LABORATORY

FIGURE 1

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

WASTE CHARACTERIZATION SAMPLE RESULTS – LOX-1B-1  
 THE BOEING COMPANY  
 SANTA SUSANA FIELD LABORATORY

		Object Name: Sample Name: Collection Date: Sample Depth (feet):			LXWC0005 LXWC0005S001 10/13/2010 0.2 - 0.8	LXWC0006 LXWC0006S001 10/13/2010 0.8 - 1.3	LXWC0007 LXWC0007S001 10/13/2010 1.2 - 1.7	LXWC0008 LXWC0008S001 10/13/2010 0.1 - 0.3	LXWC0009 LXWC0009S001 10/13/2010 1.4 - 1.9	LXWC0010 LXWC0010S001 10/13/2010 0.1 - 0.3	LXWC0011 LXWC0011S001 10/13/2010 0 - 0.4
ANALYTE	UNITS	TTLIC	WET Leachate Testing Trigger <sup>a</sup>	TCLP Leachate Testing Trigger <sup>b</sup>	RESULT <sup>c</sup>	RESULT <sup>c</sup>	RESULT <sup>c</sup>	RESULT <sup>c</sup>	RESULT <sup>c</sup>	RESULT <sup>c</sup>	RESULT <sup>c</sup>
<b>METALS</b>											
Antimony	mg/kg	500	150	--	<0.88	1.1 J	0.96 J	1 J	0.9 J	0.96 J	1.1 J
Arsenic	mg/kg	500	50	100	5.4	7.1	5.2	4.7	5.2	6.8	6.6
Barium	mg/kg	10,000	1,000	2,000	70	91	83	66	62	87	89
Beryllium	mg/kg	75	7.5	--	0.52	0.67	0.61	0.52	0.59	0.61	0.71
Cadmium	mg/kg	100	10	20	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium	mg/kg	500	50	100	16	28	24	19	23	21	26
Cobalt	mg/kg	8,000	800	--	4.5	8.5	5.7	5.2	5.5	5.3	7.6
Copper	mg/kg	2,500	250	--	11	14	11	8.1	16	20	13
Lead	mg/kg	1,000	50	100	18	8.1	6.1	4.3	8.6	19	7.7
Mercury	mg/kg	20	2	4	0.024	0.014 J	<0.012	<0.012	<0.012	0.014 J	0.012 J
Molybdenum	mg/kg	3,500	3,500	--	0.38 J	0.56 J	0.44 J	<0.2	0.47 J	0.48 J	0.37 J
Nickel	mg/kg	2,000	200	--	9.6 B	21 B	19 B	15 B	19 B	13 B	21 B
Selenium	mg/kg	100	10	20	<1	<0.99	<1	<0.99	<0.99	<0.98	<0.98
Silver	mg/kg	500	50	100	<0.8	<0.79	<0.8	<0.79	<0.79	<0.78	<0.78
Thallium	mg/kg	700	70	--	<0.8	<0.79	<0.8	<0.79	<0.79	<0.78	<0.78
Vanadium	mg/kg	2,400	240	--	26	46	37	33	34	30	40
Zinc	mg/kg	5,000	2,500	--	57	59	47	46	55	67	53
<b>TPH</b>											
Gasoline Range Organics (C6-C12)	mg/kg	--	--	--	<0.37 {<0.14}	<0.37 {<0.14}	<0.37 {<0.14}	<0.37 {<0.14}	<0.39 {<0.15}	<0.38 {<0.14}	<0.4 {<0.15}
EFH (C10 - C24)	mg/kg	--	--	--	<5 {<3.5}	<5 {<3.5}	4.9 J	<5 {<3.5}	<5 {<3.5}	4.2 J	<5 {<3.5}
EFH (C25 - C40)	mg/kg	--	--	--	12 B	<5 {<3.5}	13 B	<5 {<3.5}	<5 {<3.5}	18 B	<5 {<3.5}
EFH (C10 - C40)	mg/kg	--	--	--	15 B	<5 {<3.5}	18 B	<5 {<3.5}	<5 {<3.5}	22 B	<5 {<3.5}
<b>VOCs</b>											
1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	<2 {<0.57}	<2 {<0.57}	<2 {<0.56}	<2 {<0.56}	<2 {<0.57}	<2 {<0.56}	<2 {<0.57}
1,1,1-Trichloroethane	ug/kg	--	--	--	<1 {<0.7}	<1 {<0.7}	<0.99 {<0.69}	<0.99 {<0.69}	<1 {<0.7}	<0.99 {<0.69}	<1 {<0.7}
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	<2 {<0.86}	<2 {<0.86}	<2 {<0.85}	<2 {<0.85}	<2 {<0.86}	<2 {<0.85}	<2 {<0.86}
1,1,2-Trichloroethane	ug/kg	--	--	--	<1 {<0.87}	<1 {<0.87}	<0.99 {<0.86}	<0.99 {<0.86}	<1 {<0.87}	<0.99 {<0.86}	<1 {<0.87}
1,1-Dichloroethane	ug/kg	--	--	--	<1 {<0.5}	<1 {<0.5}	<0.99 {<0.49}	<0.99 {<0.5}	<1 {<0.5}	<0.99 {<0.5}	<1 {<0.5}
1,1-Dichloroethene	ug/kg	--	--	14,000	<2 {<0.6}	<2 {<0.6}	<2 {<0.59}	<2 {<0.59}	<2 {<0.6}	<2 {<0.59}	<2 {<0.6}
1,1-Dichloropropene	ug/kg	--	--	--	<1 {<0.4}	<1 {<0.4}	<0.99 {<0.39}	<0.99 {<0.4}	<1 {<0.4}	<0.99 {<0.4}	<1 {<0.4}
1,2,3-Trichlorobenzene	ug/kg	--	--	--	<2 {<1}	<2 {<1}	<2 {<0.99}	<2 {<0.99}	<2 {<1}	<2 {<0.99}	<2 {<1}
1,2,3-Trichloropropane	ug/kg	--	--	--	<2 {<1}	<2 {<1}	<2 {<0.99}	<2 {<0.99}	<2 {<1}	<2 {<0.99}	<2 {<1}
1,2,4-Trichlorobenzene	ug/kg	--	--	--	<2 {<1}	<2 {<1}	<2 {<0.99}	<2 {<0.99}	<2 {<1}	<2 {<0.99}	<2 {<1}
1,2,4-Trimethylbenzene	ug/kg	--	--	--	<1 {<0.78}	<1 {<0.78}	<0.99 {<0.77}	<0.99 {<0.77}	<1 {<0.78}	<0.99 {<0.77}	<1 {<0.78}
1,2-Dibromo-3-chloropropane	ug/kg	--	--	--	<10 {<1.5}	<10 {<1.5}	<9.9 {<1.5}	<9.9 {<1.5}	<10 {<1.5}	<9.9 {<1.5}	<10 {<1.5}

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

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ANALYTE	UNITS	TTLIC	WET Leachate Testing Trigger <sup>a</sup>	TCLP Leachate Testing Trigger <sup>b</sup>	RESULT <sup>c</sup>	RESULT <sup>c</sup>	RESULT <sup>c</sup>	RESULT <sup>c</sup>	RESULT <sup>c</sup>	RESULT <sup>c</sup>	RESULT <sup>c</sup>
1,2-Dibromoethane (EDB)	ug/kg	--	--	--	<1 {<0.8}	<1 {<0.8}	<0.99 {<0.79}	<0.99 {<0.79}	<1 {<0.8}	<0.99 {<0.79}	<1 {<0.8}
1,2-Dichlorobenzene	ug/kg	--	--	--	<1 {<0.95}	<1 {<0.95}	<0.99 {<0.94}	<0.99 {<0.94}	<1 {<0.95}	<0.99 {<0.94}	<1 {<0.95}
1,2-Dichloroethane	ug/kg	--	--	10,000	<1 {<0.8}	<1 {<0.8}	<0.99 {<0.79}	<0.99 {<0.79}	<1 {<0.8}	<0.99 {<0.79}	<1 {<0.8}
1,2-Dichloropropane	ug/kg	--	--	--	<1 {<0.8}	<1 {<0.8}	<0.99 {<0.79}	<0.99 {<0.79}	<1 {<0.8}	<0.99 {<0.79}	<1 {<0.8}
1,3,5-Trimethylbenzene	ug/kg	--	--	--	<1 {<0.63}	<1 {<0.63}	<0.99 {<0.62}	<0.99 {<0.62}	<1 {<0.63}	<0.99 {<0.62}	<1 {<0.63}
1,3-Dichlorobenzene	ug/kg	--	--	--	<1 {<0.84}	<1 {<0.84}	<0.99 {<0.83}	<0.99 {<0.83}	<1 {<0.84}	<0.99 {<0.83}	<1 {<0.84}
1,3-Dichloropropane	ug/kg	--	--	--	<1 {<0.63}	<1 {<0.63}	<0.99 {<0.62}	<0.99 {<0.62}	<1 {<0.63}	<0.99 {<0.62}	<1 {<0.63}
1,4-Dichlorobenzene	ug/kg	--	--	--	<1 {<0.94}	<1 {<0.94}	<0.99 {<0.93}	<0.99 {<0.93}	<1 {<0.94}	<0.99 {<0.93}	<1 {<0.94}
2-Butanone (MEK)	ug/kg	--	--	4,000,000	<10 {<6}	<10 {<6}	<9.9 {<5.9}	<9.9 {<5.9}	<10 {<6}	<9.9 {<5.9}	<10 {<6}
2-Hexanone	ug/kg	--	--	--	<10 {<9.1}	<10 {<9.1}	<9.9 {<9}	<9.9 {<9}	<10 {<9.1}	<9.9 {<9}	<10 {<9.1}
4-Methyl-2-pentanone (MIBK)	ug/kg	--	--	--	<5 {<4.5}	<5 {<4.5}	<4.9 {<4.4}	<5 {<4.5}	<5 {<4.5}	<5 {<4.5}	<5 {<4.5}
Acetone	ug/kg	--	--	--	<10 {<8}	<10 {<8}	<9.9 {<7.9}	<9.9 {<7.9}	<10 {<8}	<9.9 {<7.9}	<10 {<8}
Benzene	ug/kg	--	--	10,000	<1 {<0.5}	<1 {<0.5}	<0.99 {<0.49}	<0.99 {<0.5}	<1 {<0.5}	<0.99 {<0.5}	<1 {<0.5}
Bromobenzene	ug/kg	--	--	--	<2 {<0.84}	<2 {<0.84}	<2 {<0.83}	<2 {<0.83}	<2 {<0.84}	<2 {<0.83}	<2 {<0.84}
Bromochloromethane	ug/kg	--	--	--	<2 {<0.9}	<2 {<0.9}	<2 {<0.89}	<2 {<0.89}	<2 {<0.9}	<2 {<0.89}	<2 {<0.9}
Bromodichloromethane	ug/kg	--	--	--	<1 {<0.5}	<1 {<0.5}	<0.99 {<0.49}	<0.99 {<0.5}	<1 {<0.5}	<0.99 {<0.5}	<1 {<0.5}
Bromoform	ug/kg	--	--	--	<2 {<0.8}	<2 {<0.8}	<2 {<0.79}	<2 {<0.79}	<2 {<0.8}	<2 {<0.79}	<2 {<0.8}
Bromomethane	ug/kg	--	--	--	<2 {<0.92}	<2 {<0.92}	<2 {<0.91}	<2 {<0.91}	<2 {<0.92}	<2 {<0.91}	<2 {<0.92}
Carbon Disulfide	ug/kg	--	--	--	<5 {<0.97}	<5 {<0.97}	<4.9 {<0.96}	<5 {<0.96}	<5 {<0.97}	<5 {<0.96}	<5 {<0.97}
Carbon tetrachloride	ug/kg	--	--	10,000	<2 {<0.5}	<2 {<0.5}	<2 {<0.49}	<2 {<0.5}	<2 {<0.5}	<2 {<0.5}	<2 {<0.5}
Chlorobenzene	ug/kg	--	--	2,000,000	<1 {<0.52}	<1 {<0.52}	<0.99 {<0.51}	<0.99 {<0.51}	<1 {<0.52}	<0.99 {<0.51}	<1 {<0.52}
Chloroethane	ug/kg	--	--	--	<2 {<1.5}	<2 {<1.5}	<2 {<1.5}	<2 {<1.5}	<2 {<1.5}	<2 {<1.5}	<2 {<1.5}
Chloroform	ug/kg	--	--	120,000	<1 {<0.5}	<1 {<0.5}	<0.99 {<0.49}	<0.99 {<0.5}	<1 {<0.5}	<0.99 {<0.5}	<1 {<0.5}
Chloromethane	ug/kg	--	--	--	<2 {<1}	<2 {<1}	<2 {<0.99}	<2 {<0.99}	<2 {<1}	<2 {<0.99}	<2 {<1}
cis-1,2-Dichloroethene	ug/kg	--	--	--	<1 {<0.83}	<1 {<0.83}	<0.99 {<0.82}	<0.99 {<0.82}	<1 {<0.83}	<0.99 {<0.82}	<1 {<0.83}
cis-1,3-Dichloropropene	ug/kg	--	--	--	<1 {<0.44}	<1 {<0.44}	<0.99 {<0.43}	<0.99 {<0.44}	<1 {<0.44}	<0.99 {<0.44}	<1 {<0.44}
Dibromochloromethane	ug/kg	--	--	--	<1 {<0.7}	<1 {<0.7}	<0.99 {<0.69}	<0.99 {<0.69}	<1 {<0.7}	<0.99 {<0.69}	<1 {<0.7}
Dibromomethane	ug/kg	--	--	--	<1 {<0.9}	<1 {<0.9}	<0.99 {<0.89}	<0.99 {<0.89}	<1 {<0.9}	<0.99 {<0.89}	<1 {<0.9}
Dichlorodifluoromethane	ug/kg	--	--	--	<5 {<1.5}	<5 {<1.5}	<4.9 {<1.5}	<5 {<1.5}	<5 {<1.5}	<5 {<1.5}	<5 {<1.5}
Ethylbenzene	ug/kg	--	--	--	<1 {<0.5}	<1 {<0.5}	<0.99 {<0.49}	<0.99 {<0.5}	<1 {<0.5}	<0.99 {<0.5}	<1 {<0.5}
Hexachlorobutadiene	ug/kg	--	--	--	<2 {<0.8}	<2 {<0.8}	<2 {<0.79}	<2 {<0.79}	<2 {<0.8}	<2 {<0.79}	<2 {<0.8}
Isopropylbenzene	ug/kg	--	--	--	<1 {<0.54}	<1 {<0.54}	<0.99 {<0.53}	<0.99 {<0.53}	<1 {<0.54}	<0.99 {<0.53}	<1 {<0.54}
m,p-Xylenes	ug/kg	--	--	--	<2 {<0.8}	<2 {<0.8}	<2 {<0.79}	<2 {<0.79}	<2 {<0.8}	<2 {<0.79}	<2 {<0.8}
Methylene chloride	ug/kg	--	--	--	<10 {<6.5}	<10 {<6.5}	<9.9 {<6.4}	<9.9 {<6.4}	<10 {<6.5}	<9.9 {<6.4}	<10 {<6.5}
Methyl-tert-butyl Ether (MTBE)	ug/kg	--	--	--	<2 {<1}	<2 {<1}	<2 {<0.99}	<2 {<0.99}	<2 {<1}	<2 {<0.99}	<2 {<1}
n-Butylbenzene	ug/kg	--	--	--	<2 {<0.72}	<2 {<0.72}	<2 {<0.71}	<2 {<0.71}	<2 {<0.72}	<2 {<0.71}	<2 {<0.72}

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ANALYTE	UNITS	TTLIC	WET Leachate Testing Trigger <sup>a</sup>	TCLP Leachate Testing Trigger <sup>b</sup>	RESULT <sup>c</sup>	RESULT <sup>c</sup>	RESULT <sup>c</sup>	RESULT <sup>c</sup>	RESULT <sup>c</sup>	RESULT <sup>c</sup>	RESULT <sup>c</sup>
n-Propylbenzene	ug/kg	--	--	--	<1 {<0.61}	<1 {<0.61}	<0.99 {<0.6}	<0.99 {<0.6}	<1 {<0.61}	<0.99 {<0.6}	<1 {<0.61}
Naphthalene	ug/kg	--	--	--	<2 {<1.1}	<2 {<1.1}	<2 {<1.1}	<2 {<1.1}	<2 {<1.1}	<2 {<1.1}	<2 {<1.1}
o-Xylene	ug/kg	--	--	--	<1 {<0.5}	<1 {<0.5}	<0.99 {<0.49}	<0.99 {<0.5}	<1 {<0.5}	<0.99 {<0.5}	<1 {<0.5}
p-Isopropyltoluene	ug/kg	--	--	--	<1 {<0.72}	<1 {<0.72}	<0.99 {<0.71}	<0.99 {<0.71}	<1 {<0.72}	<0.99 {<0.71}	<1 {<0.72}
sec-Butylbenzene	ug/kg	--	--	--	<2 {<0.67}	<2 {<0.67}	<2 {<0.66}	<2 {<0.66}	<2 {<0.67}	<2 {<0.66}	<2 {<0.67}
Styrene	ug/kg	--	--	--	<1 {<0.58}	<1 {<0.58}	<0.99 {<0.57}	<0.99 {<0.57}	<1 {<0.58}	<0.99 {<0.57}	<1 {<0.58}
tert-Butylbenzene	ug/kg	--	--	--	<2 {<0.62}	<2 {<0.62}	<2 {<0.61}	<2 {<0.61}	<2 {<0.62}	<2 {<0.61}	<2 {<0.62}
Tetrachloroethene	ug/kg	--	--	14,000	<1 {<0.49}	<1 {<0.49}	<0.99 {<0.48}	<0.99 {<0.49}	<1 {<0.49}	<0.99 {<0.49}	<1 {<0.49}
Toluene	ug/kg	--	--	--	<1 {<0.5}	<1 {<0.5}	<0.99 {<0.49}	<0.99 {<0.5}	<1 {<0.5}	<0.99 {<0.5}	<1 {<0.5}
trans-1,2-Dichloroethene	ug/kg	--	--	--	<1 {<0.7}	<1 {<0.7}	<0.99 {<0.69}	<0.99 {<0.69}	<1 {<0.7}	<0.99 {<0.69}	<1 {<0.7}
trans-1,3-Dichloropropene	ug/kg	--	--	--	<1 {<0.61}	<1 {<0.61}	<0.99 {<0.6}	<0.99 {<0.6}	<1 {<0.61}	<0.99 {<0.6}	<1 {<0.61}
Trichloroethene	ug/kg	2,040,000	2,040,000	10,000	<1 {<0.5}	<1 {<0.5}	<0.99 {<0.49}	<0.99 {<0.5}	<1 {<0.5}	<0.99 {<0.5}	<1 {<0.5}
Trichlorofluoromethane	ug/kg	--	--	--	<2 {<0.54}	<2 {<0.54}	<2 {<0.53}	<2 {<0.53}	<2 {<0.54}	<2 {<0.53}	<2 {<0.54}
Vinyl acetate	ug/kg	--	--	--	<5 {<2.5}	<5 {<2.5}	<4.9 {<2.5}	<5 {<2.5}	<5 {<2.5}	<5 {<2.5}	<5 {<2.5}
Vinyl chloride	ug/kg	--	--	4,000	<2 {<0.91}	<2 {<0.91}	<2 {<0.9}	<2 {<0.9}	<2 {<0.91}	<2 {<0.9}	<2 {<0.91}
<b>RADIONUCLIDES</b>	--	--	--	--	R	R	R	R	R	R	R

**INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009**

**WASTE CHARACTERIZATION SAMPLE RESULTS – LOX  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY**

**Notes:**

--" - not analyzed / not applicable

<5 - Analyte not detected at or above the stated method detection limit (metals) or analyte not detected at or above the stated reporting limit (organics)

{<1} - Analyte not detected at or above the stated method detection limit (organics)

<sup>a</sup> - WET Leachate Testing Trigger = STLC limit \* 10

<sup>b</sup> - TCLP Leachate Testing Trigger = TCLP limit \* 20

<sup>c</sup> Waste characterization sample results not validated

B - Analyte was detected in the associated method blank

J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.

µg/kg - micrograms per kilogram

mg/kg - milligrams per kilogram

mg/L - milligrams per liter

R - Radiological analysis includes gamma spectroscopy (Na-22, K-40, Mn-54, Co-60, Cs-134, Cs-137, Eu-152, Eu-154, Th-228, Th-232, U-235, U-238 and Am-241), strontium-90, and tritium. Boeing will be preparing a document that provides the radiological results and statistical analysis of these waste characterization samples.

SU - standard units