

**WASTE CHARACTERIZATION: IN-SITU SOIL LOCATED AT AREA II
ISRA OUTFALL 009 PLANNED EXCAVATION AP/STP-1E-2**

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This report presents supporting detailed information for the July 30, 2010 in-situ characterization sampling of prospective soil wastes from planned SSFL Area II ISRA excavations in the vicinity of the former Area II incinerator.

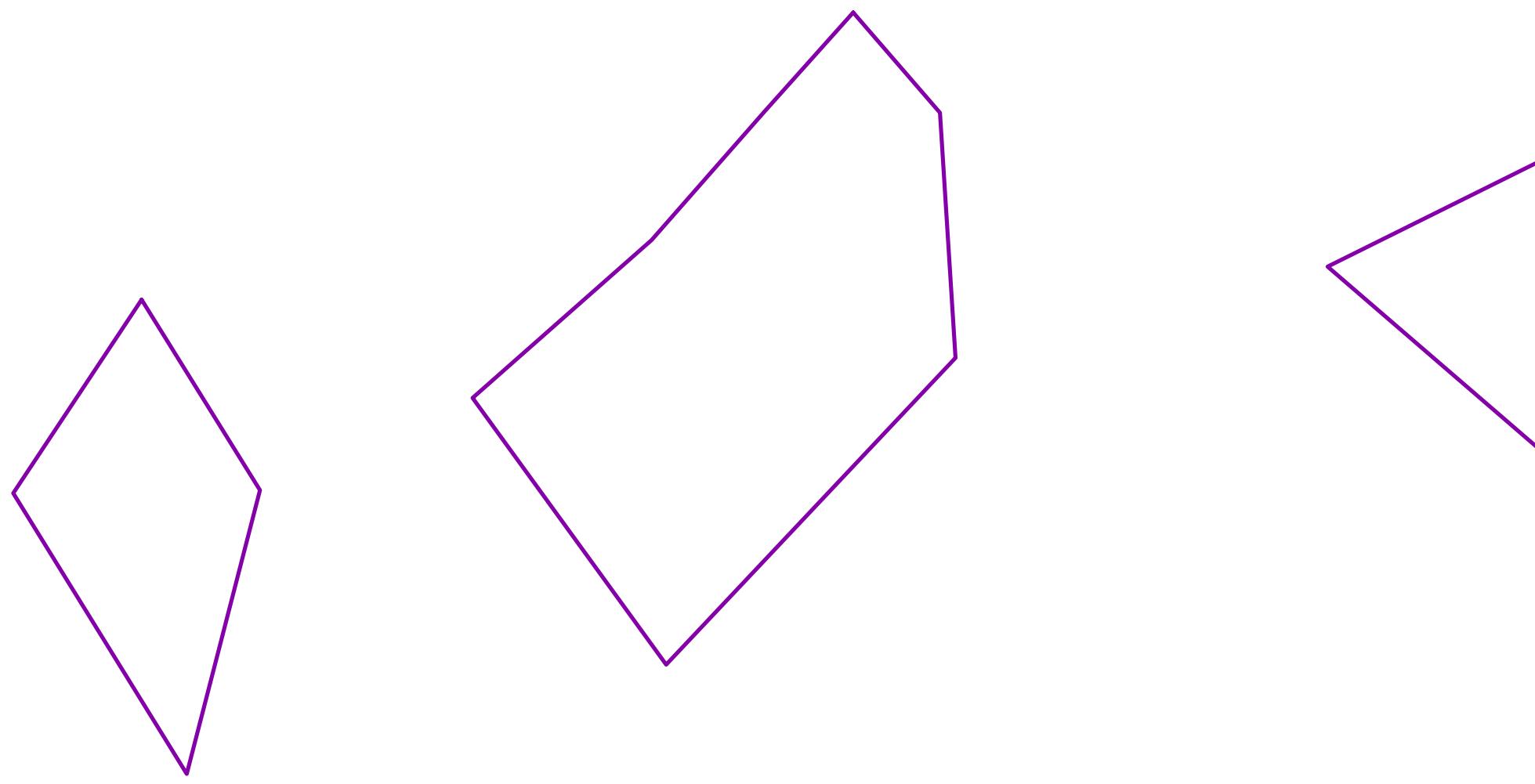
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In-situ characterization was performed for soil destined to be excavated from designated locations in SSFL Area II in accordance with the ISRA Workplan. A step-by-step approach was followed to accomplish characterization of the soil prior to excavation. The first step was to review available information regarding historical area usage and existing analytical data from past soil sampling in or near planned excavation sites. The objective was to identify all substances potentially ethe identified substances were present at

gation. In addition, the initial random sampling results
ical adequacy of the data provided for waste
s presented in U.S. EPA SW-846. Soil was
alyte concentrations among the samples exhibited a
as satisfactory margin between the mean of the samples
otherwise, additional samples would be collected and
er testing, the soil was summarily characterized as
ed in SW-846 are performed as necessary to determine
nd the upper confidence levels of analytical results.

existing analytical data relevant to planned excavation
Group 2 RFI results. Evaluation of these data and other
ng recent sampling conducted specifically for ISRA,
117), Volatile Organic Compounds (VOC),

VOCs were detected in two samples only, with Acetone observed at concentrations of 0.0089 ppm and 0.020 ppm. Trichloro



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A A (- A) - L A 009

↳ A A (- A) - ↳ A 009

A A A A A A A / -1 -2
A AL A A A A

L A A (A) - L A 009
 A A A A L A / -1 -2
 A A A A L A A

A A	L		a 0 : a 0 :		A A 0501	A A 0502	A A 0503	A A 0504	A A 0505
			a 0	a 0 :	A 0501 001 7/30/2010 0.5 - 1.0	A 0502 001 7/30/2010 0.5 - 1.0	A 0503 001 7/30/2010 0.5 - 1.0	A 0504 001 7/30/2010 0.5 - 1.0	A 0505 001 7/30/2010 0.5 - 1.0
cis-1,3-Dichloropropene	ug/kg	--	--	--	<1.1 {<0.49}	<1.1 {<0.49}	<0.97 {<0.43}	<1.1 {<0.49}	<1.1 {<0.49}
Dibromochloromethane	ug/kg	--	--	--	<1.1 {<0.77}	<1.1 {<0.77}	<0.97 {<0.68}	<1.1 {<0.78}	<1.1 {<0.78}
Dibromomethane	ug/kg	--	--	--	<1.1 {<1}	<1.1 {<0.99}	<0.97 {<0.87}	<1.1 {<1}	<1.1 {<1}
Dichlorodifluoromethane	ug/kg	--	--	--	<5.5 {<1.7}	<5.5 {<1.7}	<4.8 {<1.5}	<5.5 {<1.7}	<5.6 {<1.7}
Ethylbenzene	ug/kg	--	--	--	<1.1 {<0.55}	<1.1 {<0.55}	<0.97 {<0.48}	<1.1 {<0.55}	<1.1 {<0.56}
Hexachlorobutadiene	ug/kg	--	--	--	<2.2 {<0.88}	<2.2 {<0.88}	<1.9 {<0.78}	<2.2 {<0.89}	<2.2 {<0.89}
Isopropylbenzene	ug/kg	--	--	--	<1.1 {<0.6}	<1.1 {<0.6}	<0.97 {<0.52}	<1.1 {<0.6}	<1.1 {<0.6}
m,p-Xylenes	ug/kg	--	--	--	<2.2 {<0.88}	<2.2 {<0.88}	<1.9 {<0.78}	<2.2 {<0.89}	<2.2 {<0.89}
Methylene chloride	ug/kg	--	--	--	<11 {<7.2}	<11 {<7.2}	<9.7 {<6.3}	<11 {<7.2}	<11 {<7.2}
Methyl-tert-butyl Ether (MTBE)	ug/kg	--	--	--	<2.2 {<1.1}	<2.2 {<1.1}	<1.9 {<0.97}	<2.2 {<1.1}	<2.2 {<1.1}
n-Butylbenzene	ug/kg	--	--	--	<2.2 {<0.8}	<2.2 {<0.79}	<1.9 {<0.7}	<2.2 {<0.8}	<2.2 {<0.8}
n-Propylbenzene	ug/kg	--	--	--	<1.1 {<0.67}	<1.1 {<0.67}	<0.97 {<0.59}	<1.1 {<0.68}	<1.1 {<0.68}
Naphthalene	ug/kg	--	--	--	<2.2 {<1.2}	<2.2 {<1.2}	<1.9 {<1.1}	<2.2 {<1.2}	<2.2 {<1.2}
o-Xylene	ug/kg	--	--	--	<1.1 {<0.55}	<1.1 {<0.55}	<0.97 {<0.48}	<1.1 {<0.55}	<1.1 {<0.56}
p-Isopropyltoluene	ug/kg	--	--	--	<1.1 {<0.8}	<1.1 {<0.79}	<0.97 {<0.7}	<1.1 {<0.8}	<1.1 {<0.8}
sec-Butylbenzene	ug/kg	--	--	--	<2.2 {<0.74}	<2.2 {<0.74}	<1.9 {<0.65}	<2.2 {<0.74}	<2.2 {<0.74}
Styrene	ug/kg	--	--	--	<1.1 {<0.64}	<1.1 {<0.64}	<0.97 {<0.56}	<1.1 {<0.64}	<1.1 {<0.64}
tert-Butylbenzene	ug/kg	--	--	--	<2.2 {<0.69}	<2.2 {<0.68}	<1.9 {<0.6}	<2.2 {<0.69}	<2.2 {<0.69}
Tetrachloroethene	ug/kg	--	--	14,000	<1.1 {<0.54}	<1.1 {<0.54}	<0.97 {<0.47}	<1.1 {<0.54}	<1.1 {<0.54}
Toluene	ug/kg	--	--	--	<1.1 {<0.55}	<1.1 {<0.55}	<0.97 {<0.48}	<1.1 {<0.55}	<1.1 {<0.56}
trans-1,2-Dichloroethene	ug/kg	--	--	--	<1.1 {<0.77}	<1.1 {<0.77}	<0.97 {<0.68}	<1.1 {<0.78}	<1.1 {<0.78}
trans-1,3-Dichloropropene	ug/kg	--	--	--	<1.1 {<0.67}	<1.1 {<0.67}	<0.97 {<0.59}	<1.1 {<0.68}	<1.1 {<0.68}
Trichloroethene	ug/kg	2,040,000	2,040,000	10,000	<1.1 {<0.55}	<1.1 {<0.55}	<0.97 {<0.48}	0.55 J	<1.1 {<0.56}
Trichlorofluoromethane	ug/kg	--	--	--	<2.2 {<0.6}	<2.2 {<0.6}	<1.9 {<0.52}	<2.2 {<0.6}	<2.2 {<0.6}
Vinyl acetate	ug/kg	--	--	--	<5.5 {<2.8}	<5.5 {<2.8}	<4.8 {<2.4}	<5.5 {<2.8}	<5.6 {<2.8}
Vinyl chloride	ug/kg	--	--	4,000	<2.2 {<1}	<2.2 {<1}	<1.9 {<0.88}	<2.2 {<1}	<2.2 {<1}
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