

Boeing ISRA IEL-3, Area I Soil Sampling for Radionuclides Waste Certification

Introduction

This data package provides the laboratory results of the 29 characterization samples taken the IEL-3 site in Area I during October 2012. Soil sample locations and the demarcated area are shown in Appendix 1.

Methodology

Samples taken for waste disposal characterization were analyzed for strontium-90, tritium and gamma emitting radionuclides by gamma spectroscopy using an off-site laboratory¹. Minimum detectable concentrations (MDC) for cesium-137 and reanalyzed strontium-90 averaged 0.028 pCi/g and 0.043 pCi/g respectively. Minimum detectable concentration for tritium averaged 0.28 pCi/g. The gamma spectroscopy library included the following contaminants-of-concern: Na-22, Mn-54, Co-60, Cs-134, Cs-137, Eu-152, Eu-154 and Eu-155 and the following NORM radionuclides, Ac-227, Ac-228, Bi-212, Bi-214, Pb-212, Pb-214, Pa-231, Tl-208 and K-40. In addition, isotopic uranium (U-234, U-235 and U-238) was performed using alpha spectroscopy.

The USEPA has characterized local radionuclide background² in soil and has published preliminary radiological trigger levels (RTL) based on the higher of background threshold values (BTV) or minimum detectable concentrations (MDC)³.

USEPA issued revised RTLs⁴ in December 2012 which were, in general, higher than the original RTLs. USEPA also issued laboratory specific radiological reference concentrations (RRC) in December 2012⁵. Subsequently, DTSC issued draft provisional LUTs⁶ for 16 radionuclides in January 2013, which in general matched the revised RTLs for those radionuclides whose RTLs were derived from BTVs⁷ (for example cesium-137 and uranium-238). The draft provisional LUTs subset also matched exactly the lower of the two lab-specific RRCs.

The DTSC draft provisional LUTs are convenient benchmarks with which perform an initial comparison of sample data. However Boeing is not a signatory to the 2010 Administrative Orders on Consent (AOC) that requires cleanup to background, therefore Boeing also uses the USEPA acceptable risk range for

¹Boeing, "ISRA Soil Management Plan", Attachment A, "ISRA Sampling for Radionuclides", July 2009.

²USEPA, "Final Radiological Background Study Report, Santa Susana Field Laboratory, Ventura County, California", October 2011.

³USEPA, "Technical Memorandum, Radiological Trigger Levels, Santa Susana Field Laboratory Site, Area IV Radiological Study", December 12, 2011.

⁴USEPA, "Attachment A – Original and Corrected Radiological Trigger Levels - Development and Use of Radiological Reference Concentrations", Appendix K of "Final Radiological Characterization of Soils - Area IV and Northern Buffer Zone", December 21, 2012.

⁵USEPA, "Attachment B - Radiological Reference Concentrations - Development and Use of Radiological Reference Concentrations", Appendix K of "Final Radiological Characterization of Soils - Area IV and Northern Buffer Zone", December 21, 2012.

⁶DTSC, "Development of the Draft Provisional Radiological Look-Up Table", DTSC Public Meeting, Chatsworth, California, January 30, 2013.

⁷A notable exception was strontium-90 with a BTV of 0.075 pCi/g, an original RTL of 0.485 pCi/g, a revised RTL of 0.645 pCi/g, lab specific RRCs of 1.07 and 0.117 pCi/g and a draft provisional LUT of 0.117 pCi/g.

residential land use^{8,9,10} as a more appropriate benchmark in the event that LUT may be exceeded. Residential risk ranges are very conservative compared to risks from the realistically anticipated open space land use for SSFL, and from any waste disposal option, which would be better characterized by the outdoor worker risk range.

Results

Appendix 2 shows a summary table of the soil radionuclide data for the samples taken at IEL-3. Appendices 3, 4 and 5 are the laboratory reports for the three batches (27479, 27510 and 27512) of samples taken from IEL-3.

All measurements were less than the MDC and/or less than the LUT with the following exceptions. Subsequent re-analyses and review by the laboratory have either not confirmed or invalidated those exceptions.

All samples had detected concentrations of one or more gamma emitting anthropogenic radionuclides slightly above their respective MDCs, though less than the LUTs. These included antimony-125 (Sb-125)¹¹, europium-155 (Eu-155)¹², cesium-134 (Cs-134)¹³ and cobalt-60 (Co-60)¹⁴. The laboratory also reported naturally occurring actinium-227 (Ac-227)¹⁵ above the LUT in a single sample. Upon review of the gamma energy peak spectra, the laboratory determined that these had been misidentified by the spectroscopy software due to interference from comparable energy peaks from naturally occurring radionuclides including bismuth-214 (Bi-214) and a variety of other reasons. The laboratory describes these misidentifications in detail in the case narrative portion of the lab reports (Appendices 3, 4 and 5) for each sample and concludes that these radionuclides are not present. Boeing agrees with the laboratory that these radionuclides are not present in the samples.

Uranium results for one sample (440-27479-2), initially reported in Rev 5 of this certification, slightly exceeded the LUTs. This sample was re-aliquoted and reanalyzed. The reanalysis results (reported here) were less than the LUTs and did not confirm the prior exceedance.

Several strontium-90 (Sr-90)¹⁶ results reported in Revision 5 of this certification were below the RTL (0.645 pCi/g) at the time of publication, but above the later established Sr-90 LUT (0.117 pCi/g). The case narrative for these analyses reported quality control problems, involving carrier recovery, and therefore a re-aliquot and reanalysis was requested. The reanalysis results for all samples (reported here) were either not detected above the MDC and/or were below the LUT.

⁸ Acceptable risk is defined in EPA's OSWER 9355.0-30, "Role of the Baseline Risk Assessment in Superfund Remedy Selection Decisions", April 22, 1991. <http://www.epa.gov/oswer/riskassessment/pdf/baseline.pdf>

⁹ Residential and outdoor worker risk values are obtained from EPA's "Preliminary Remediation Goals (PRGs) for Radionuclides." Data downloaded April 5, 2012. Last revised August 3, 2010. http://epa-prgs.ornl.gov/cgi-bin/radionuclides/rprg_search

¹⁰ Open space (recreational) risk values are obtained from the "Risk Assessment Information System", sponsored by the Department of Energy. The website is hosted by ORNL and uses identical methodologies used by the EPA. Data downloaded April 5, 2012. http://rais.ornl.gov/cgi-bin/prg/PRG_search?select=rad

¹¹ Antimony-125, 440-27479-1 thru 440-27479-7, 440-27479-9 thru 440-27479-11, 440-27510-1 thru 440-27510-7 and 440-27512-1 thru 440-27512-11

¹² Europium-155, 440-27479-1 thru 440-27479-2, 440-27479-6, 440-27479-8, thru 440-27479-9, 440-27479-11, 440-27510-1 thru 440-27510-3, 440-27510-5 thru 440-27510-7, 440-27512-1 thru 440-27512-3, 440-27512-5, 440-27512-7 and 440-27512-11

¹³ Cesium-134, 440-27479-6, 440-27479-9 and 440-27512-2

¹⁴ Cobalt-60, 440-27510-3 and 440-27512-4

¹⁵ Actinium-227, 440-27479-4

¹⁶ Strontium-90, 440-27479-11, 440-27510-2, 440-27510-7, 440-27512-7 and 440-27512-10

Conclusions

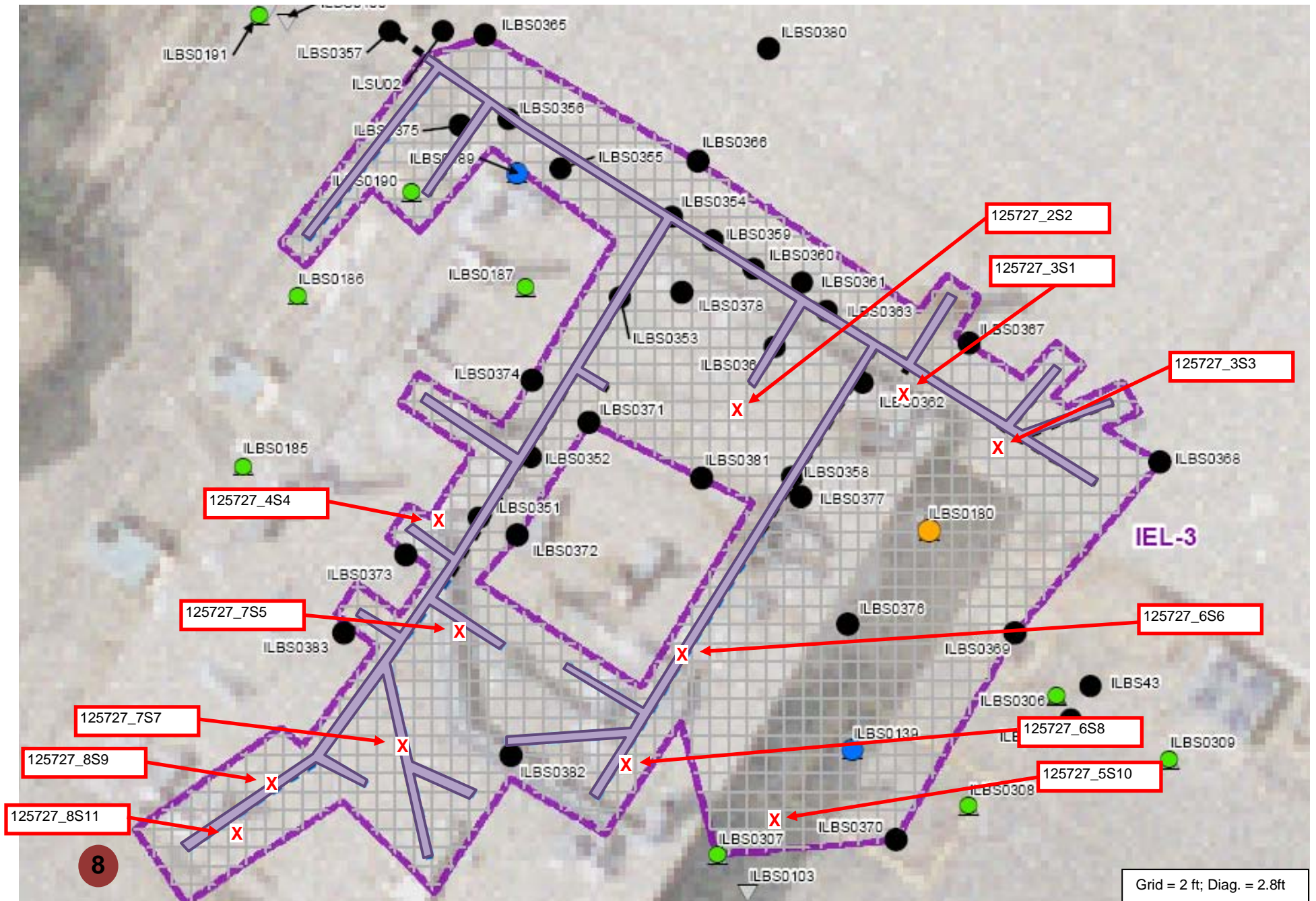
All confirmed concentrations are below the draft provisional LUTs and/or are less than the sample MDCs. Excavated soil from the IEL-3 area is released for disposal with no radiological restrictions.

A handwritten signature in black ink that reads "Phil Rutherford".

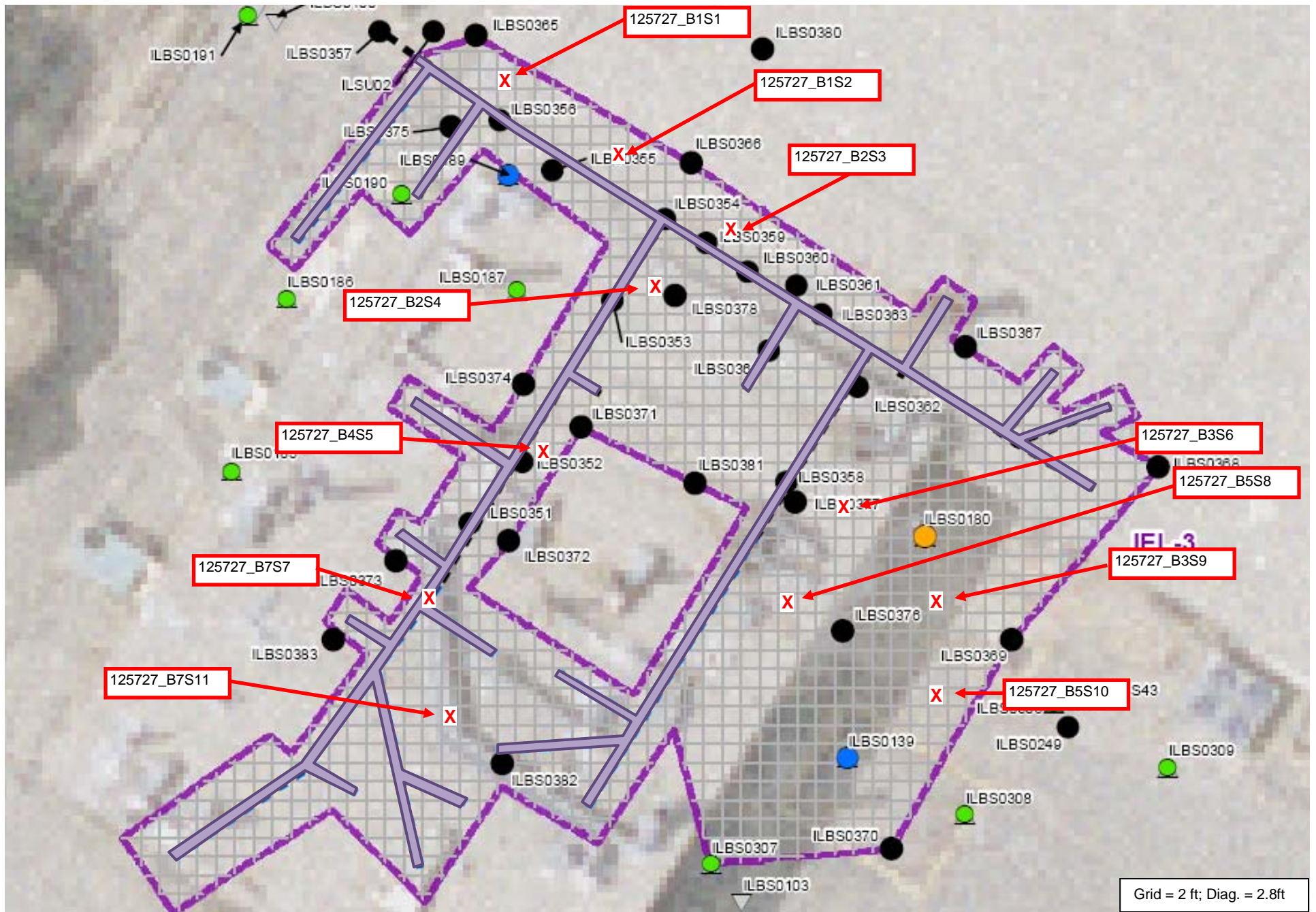
Phil Rutherford
Manager, Health, Safety & Radiation Services

Appendix 1
IEL-3 Sampling Locations

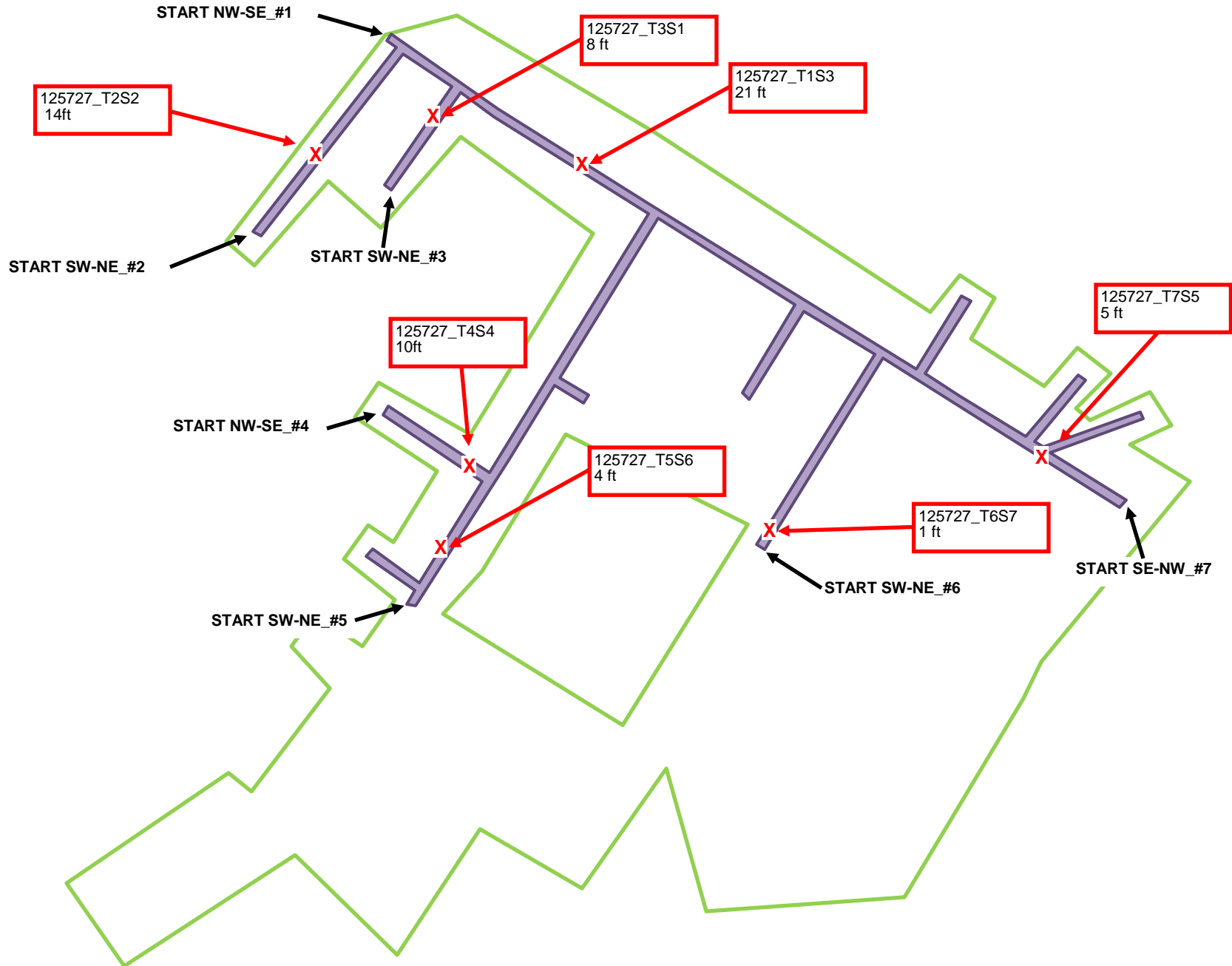
B/1300 ISRA (IEL-3) Shallow Soil Near Surface Sample Collection Points



B/1300 ISRA (IEL-3) Shallow Soil Bottom Sample Collection Points



B/1300 ISRA (IEL-3) Trench Sample Collection Points



Appendix 2
IEL-3 Radionuclide Results

Boeing ISRA Soil Data, IEL-3 (pCi/g) Compared to LUT

Sampling Date	Sample Serial Number	Isotope	Activity	Error (+/-)	MDC	DTSC LUT	LUT Source	Activity > LUT ?	Activity > MDC ?	Detected Activity	Detected Activity > LUT ?	Non-detect Activity	Non-detect Activity > LUT ?	MDC > LUT ?	Ratio of MDC to LUT	Units	Error Type	Analysis Protocol	Analysis Organization	Comments	Document
10/22/2012	125727_2S2 (440-27479-2)	Actinium-227	0.04	0.17	0.25	0.205	MDC	-	-	-	-	0.04	-	YES	1.22	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S1 (440-27479-1)	Actinium-227	0.04	0.14	0.22	0.205	MDC	-	-	-	-	0.04	-	YES	1.07	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S3 (440-27479-3)	Actinium-227	-0.008	0.21	0.36	0.205	MDC	-	-	-	-	-0.008	-	YES	1.76	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_4S4 (440-27479-4)	Actinium-227	0.421	0.061	0.29	0.205	MDC	YES	YES	0.421	YES	-	-	YES	1.41	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_5S10 (440-27479-10)	Actinium-227	0.024	0.047	0.25	0.205	MDC	-	-	-	-	0.024	-	YES	1.22	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S6 (440-27479-6)	Actinium-227	-0.01	0.13	0.22	0.205	MDC	-	-	-	-	-0.01	-	YES	1.07	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S8 (440-27479-8)	Actinium-227	0.04	0.17	0.22	0.205	MDC	-	-	-	-	0.04	-	YES	1.07	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S5 (440-27479-5)	Actinium-227	0.084	0.073	0.25	0.205	MDC	-	-	-	-	0.084	-	YES	1.22	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S7 (440-27479-7)	Actinium-227	-0.04	0.15	0.25	0.205	MDC	-	-	-	-	-0.04	-	YES	1.22	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S11 (440-27479-11)	Actinium-227	0.031	0.057	0.25	0.205	MDC	-	-	-	-	0.031	-	YES	1.22	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S9 (440-27479-9)	Actinium-227	0.06	0.26	0.43	0.205	MDC	-	-	-	-	0.06	-	YES	2.10	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/23/2012	125727_B1S1 (440-27512-1)	Actinium-227	-0.06	0.19	0.31	0.205	MDC	-	-	-	-	-0.06	-	YES	1.51	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B1S2 (440-27512-2)	Actinium-227	0.053	0.036	0.26	0.205	MDC	-	-	-	-	0.053	-	YES	1.27	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S3 (440-27512-3)	Actinium-227	0.06	0.2	0.3	0.205	MDC	-	-	-	-	0.06	-	YES	1.46	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S4 (440-27512-4)	Actinium-227	0.002	0.11	0.19	0.205	MDC	-	-	-	-	0.002	-	-	0.93	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S6 (440-27512-6)	Actinium-227	-0.005	0.02	0.26	0.205	MDC	-	-	-	-	-0.005	-	YES	1.27	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S9 (440-27512-9)	Actinium-227	0.032	0.092	0.16	0.205	MDC	-	-	-	-	0.032	-	-	0.78	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B4S5 (440-27512-5)	Actinium-227	0.05	0.12	0.27	0.205	MDC	-	-	-	-	0.05	-	YES	1.32	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S10 (440-27512-10)	Actinium-227	0.02	0.21	0.22	0.205	MDC	-	-	-	-	0.02	-	YES	1.07	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S8 (440-27512-8)	Actinium-227	0.02	0.12	0.21	0.205	MDC	-	-	-	-	0.02	-	YES	1.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S11 (440-27512-11)	Actinium-227	0.02	0.068	0.29	0.205	MDC	-	-	-	-	0.02	-	YES	1.41	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S7 (440-27512-7)	Actinium-227	0.04	0.19	0.29	0.205	MDC	-	-	-	-	0.04	-	YES	1.41	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_T1S3 (440-27510-3)	Actinium-227	0.14	0.15	0.24	0.205	MDC	-	-	-	-	0.14	-	YES	1.17	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T2S2 (440-27510-2)	Actinium-227	0.03	0.15	0.23	0.205	MDC	-	-	-	-	0.03	-	YES	1.12	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T3S1 (440-27510-1)	Actinium-227	0.05	0.14	0.39	0.205	MDC	-	-	-	-	0.05	-	YES	1.90	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T4S4 (440-27510-4)	Actinium-227	0.038	0.041	0.25	0.205	MDC	-	-	-	-	0.038	-	YES	1.22	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T5S6 (440-27510-6)	Actinium-227	-0.04	0.15	0.25	0.205	MDC	-	-	-	-	-0.04	-	YES	1.22	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T6S7 (440-27510-7)	Actinium-227	0.017	0.044	0.25	0.205	MDC	-	-	-	-	0.017	-	YES	1.22	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T7S5 (440-27510-5)	Actinium-227	0.02	0.17	0.29	0.205	MDC	-	-	-	-	0.02	-	YES	1.41	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/22/2012	125727_2S2 (440-27479-2)	Actinium-228	1.24	0.15	0.13	2.68	BTv	-	YES	1.24	-	-	-	-	0.05	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S1 (440-27479-1)	Actinium-228	1.05	0.12	0.1	2.68	BTv	-	YES	1.05	-	-	-	-	0.04	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S3 (440-27479-3)	Actinium-228	1.18	0.16	0.18	2.68	BTv	-	YES	1.18	-	-	-	-	0.07	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_4S4 (440-27479-4)	Actinium-228	1.34	0.15	0.11	2.68	BTv	-	YES	1.34	-	-	-	-	0.04	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_5S10 (440-27479-10)	Actinium-228	1.03	0.13	0.12	2.68	BTv	-	YES	1.03	-	-	-	-	0.04	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S6 (440-27479-6)	Actinium-228	1.18	0.14	0.1	2.68	BTv	-	YES	1.18	-	-	-	-	0.04	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S8 (440-27479-8)	Actinium-228	1.21	0.14	0.14	2.68	BTv	-	YES	1.21	-	-	-	-	0.05	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S5 (440-27479-5)	Actinium-228	1.19	0.14	0.12	2.68	BTv	-	YES	1.19	-	-	-	-	0.04	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S7 (440-27479-7)	Actinium-228	0.94	0.12	0.13	2.68	BTv	-	YES	0.94	-	-	-	-	0.05	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S11 (440-27479-11)	Actinium-228	1.11	0.13	0.11	2.68	BTv	-	YES	1.11	-	-	-	-	0.04	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S9 (440-27479-9)	Actinium-228	1.18	0.17	0.21	2.68	BTv	-	YES	1.18	-	-	-	-	0.08	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/23/2012	125727_B1S1 (440-27512-1)	Actinium-228	1.19	0.15	0.16	2.68	BTv	-	YES	1.19	-	-	-	-	0.06	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B1S2 (440-27512-2)	Actinium-228	1.12	0.14	0.13	2.68	BTv	-	YES	1.12	-	-	-	-	0.05	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S3 (440-27512-3)	Actinium-228	1.23	0.15	0.14	2.68	BTv	-	YES	1.23	-	-	-	-	0.05	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S4 (440-27512-4)	Actinium-228	1.27	0.15	0.14	2.68	BTv	-	YES	1.27	-	-	-	-	0.05	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S6 (440-27512-6)	Actinium-228	1.1	0.13	0.12	2.68	BTv	-	YES	1.1	-	-	-	-	0.04	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S9 (440-27512-9)	Actinium-228	1.05	0.13	0.12	2.68	BTv	-	YES	1.05	-	-	-	-	0.04	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B4S5 (440-27512-5)	Actinium-228	1.4	0.16	0.13	2.68	BTv	-	YES	1.4	-	-	-	-	0.05	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S10 (440-27512-10)	Actinium-228	1.26	0.15	0.13	2.68	BTv	-	YES	1.26	-	-	-	-	0.05	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S8 (440-27512-8)	Actinium-228	1.1	0.14	0.12	2.68	BTv	-	YES	1.1	-	-	-	-	0.04	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S11 (440-27512-11)	Actinium-228	1.45	0.16	0.13	2.68	BTv	-	YES	1.45	-	-	-	-	0.05	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S7 (440-27512-7)	Actinium-228	1.53	0.18	0.13	2.68	BTv	-	YES	1.53	-	-	-	-	0.05	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_T1S3 (440-27510-3)	Actinium-228	1.15	0.14	0.15	2.68	BTv	-	YES	1.15	-	-	-	-	0.06	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T2S2 (440-27510-2)	Actinium-228	1.13	0.13	0.12	2.68	BTv	-	YES	1.13	-	-	-	-	0.04	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T3S1 (440-27510-1)	Actinium-228	1.27	0.18	0.16	2.68	BTv	-	YES	1.27	-	-	-	-	0.06	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T4S4 (440-27510-4)	Actinium-228	1.15	0.14	0.14	2.68	BTv	-	YES	1.15	-	-	-	-	0.05	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T5S6 (440-27510-6)	Actinium-228	1.2	0.15	0.12	2.68	BTv	-	YES	1.2	-	-	-	-	0.04	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T6S7 (440-27510-7)	Actinium-228	1.25	0.15	0.11	2.68	BTv	-	YES	1.25	-	-	-	-	0.04	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1

Boeing ISRA Soil Data, IEL-3 (pCi/g) Compared to LUT

Sampling Date	Sample Serial Number	Isotope	Activity	Error (+/-)	MDC	DTSC LUT	LUT Source	Activity > LUT ?	Activity > MDC ?	Detected Activity	Detected Activity > LUT ?	Non-detect Activity	Non-detect Activity > LUT ?	MDC > LUT ?	Ratio of MDC to LUT	Units	Error Type	Analysis Protocol	Analysis Organization	Comments	Document
10/22/2012	125727_7S5 (440-27479-5)	Antimony-125	0.101	0.026	0.063	0.374	BTV	-	YES	0.101	-	-	-	-	0.17	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S7 (440-27479-7)	Antimony-125	0.08	0.033	0.062	0.374	BTV	-	YES	0.08	-	-	-	-	0.17	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S11 (440-27479-11)	Antimony-125	0.114	0.028	0.059	0.374	BTV	-	YES	0.114	-	-	-	-	0.16	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S9 (440-27479-9)	Antimony-125	0.146	0.065	0.096	0.374	BTV	-	YES	0.146	-	-	-	-	0.26	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/23/2012	125727_B1S1 (440-27512-1)	Antimony-125	0.126	0.032	0.077	0.374	BTV	-	YES	0.126	-	-	-	-	0.21	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B1S2 (440-27512-2)	Antimony-125	0.108	0.033	0.066	0.374	BTV	-	YES	0.108	-	-	-	-	0.18	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S3 (440-27512-3)	Antimony-125	0.116	0.031	0.075	0.374	BTV	-	YES	0.116	-	-	-	-	0.20	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S4 (440-27512-4)	Antimony-125	0.095	0.026	0.071	0.374	BTV	-	YES	0.095	-	-	-	-	0.19	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S6 (440-27512-6)	Antimony-125	0.093	0.027	0.065	0.374	BTV	-	YES	0.093	-	-	-	-	0.17	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S9 (440-27512-9)	Antimony-125	0.098	0.029	0.059	0.374	BTV	-	YES	0.098	-	-	-	-	0.16	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B4S5 (440-27512-5)	Antimony-125	0.158	0.037	0.067	0.374	BTV	-	YES	0.158	-	-	-	-	0.18	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S10 (440-27512-10)	Antimony-125	0.103	0.028	0.066	0.374	BTV	-	YES	0.103	-	-	-	-	0.18	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S8 (440-27512-8)	Antimony-125	0.104	0.03	0.066	0.374	BTV	-	YES	0.104	-	-	-	-	0.18	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S11 (440-27512-11)	Antimony-125	0.178	0.04	0.074	0.374	BTV	-	YES	0.178	-	-	-	-	0.20	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S7 (440-27512-7)	Antimony-125	0.16	0.038	0.065	0.374	BTV	-	YES	0.16	-	-	-	-	0.17	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_T1S3 (440-27510-3)	Antimony-125	0.136	0.039	0.057	0.374	BTV	-	YES	0.136	-	-	-	-	0.15	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T2S2 (440-27510-2)	Antimony-125	0.097	0.027	0.057	0.374	BTV	-	YES	0.097	-	-	-	-	0.15	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T3S1 (440-27510-1)	Antimony-125	0.128	0.042	0.1	0.374	BTV	-	YES	0.128	-	-	-	-	0.27	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T4S4 (440-27510-4)	Antimony-125	0.095	0.026	0.065	0.374	BTV	-	YES	0.095	-	-	-	-	0.17	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T5S6 (440-27510-6)	Antimony-125	0.114	0.032	0.068	0.374	BTV	-	YES	0.114	-	-	-	-	0.18	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T6S7 (440-27510-7)	Antimony-125	0.114	0.03	0.064	0.374	BTV	-	YES	0.114	-	-	-	-	0.17	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T7S5 (440-27510-5)	Antimony-125	0.142	0.04	0.073	0.374	BTV	-	YES	0.142	-	-	-	-	0.20	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/22/2012	125727_2S2 (440-27479-2)	Bismuth-212	0.87	0.21	0.17	2.38	BTV	-	YES	0.87	-	-	-	-	0.07	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S1 (440-27479-1)	Bismuth-212	0.7	0.19	0.17	2.38	BTV	-	YES	0.7	-	-	-	-	0.07	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S3 (440-27479-3)	Bismuth-212	0.99	0.31	0.27	2.38	BTV	-	YES	0.99	-	-	-	-	0.11	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_4S4 (440-27479-4)	Bismuth-212	1.03	0.23	0.18	2.38	BTV	-	YES	1.03	-	-	-	-	0.08	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_5S10 (440-27479-10)	Bismuth-212	0.69	0.16	0.14	2.38	BTV	-	YES	0.69	-	-	-	-	0.06	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S6 (440-27479-6)	Bismuth-212	0.86	0.2	0.16	2.38	BTV	-	YES	0.86	-	-	-	-	0.07	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S8 (440-27479-8)	Bismuth-212	0.78	0.19	0.18	2.38	BTV	-	YES	0.78	-	-	-	-	0.08	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S5 (440-27479-5)	Bismuth-212	0.85	0.2	0.17	2.38	BTV	-	YES	0.85	-	-	-	-	0.07	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S7 (440-27479-7)	Bismuth-212	0.61	0.19	0.17	2.38	BTV	-	YES	0.61	-	-	-	-	0.07	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S11 (440-27479-11)	Bismuth-212	0.85	0.2	0.16	2.38	BTV	-	YES	0.85	-	-	-	-	0.07	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S9 (440-27479-9)	Bismuth-212	1	0.31	0.28	2.38	BTV	-	YES	1	-	-	-	-	0.12	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/23/2012	125727_B1S1 (440-27512-1)	Bismuth-212	1.01	0.24	0.2	2.38	BTV	-	YES	1.01	-	-	-	-	0.08	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B1S2 (440-27512-2)	Bismuth-212	0.91	0.2	0.15	2.38	BTV	-	YES	0.91	-	-	-	-	0.06	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S3 (440-27512-3)	Bismuth-212	1.06	0.28	0.21	2.38	BTV	-	YES	1.06	-	-	-	-	0.09	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S4 (440-27512-4)	Bismuth-212	1.06	0.23	0.18	2.38	BTV	-	YES	1.06	-	-	-	-	0.08	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S6 (440-27512-6)	Bismuth-212	0.93	0.23	0.17	2.38	BTV	-	YES	0.93	-	-	-	-	0.07	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S9 (440-27512-9)	Bismuth-212	0.85	0.17	0.14	2.38	BTV	-	YES	0.85	-	-	-	-	0.06	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B4S5 (440-27512-5)	Bismuth-212	1.04	0.21	0.17	2.38	BTV	-	YES	1.04	-	-	-	-	0.07	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S10 (440-27512-10)	Bismuth-212	0.82	0.15	0.15	2.38	BTV	-	YES	0.82	-	-	-	-	0.06	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S8 (440-27512-8)	Bismuth-212	0.85	0.19	0.15	2.38	BTV	-	YES	0.85	-	-	-	-	0.06	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S11 (440-27512-11)	Bismuth-212	1.02	0.2	0.17	2.38	BTV	-	YES	1.02	-	-	-	-	0.07	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S7 (440-27512-7)	Bismuth-212	1.2	0.24	0.19	2.38	BTV	-	YES	1.2	-	-	-	-	0.08	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_T1S3 (440-27510-3)	Bismuth-212	1	0.22	0.18	2.38	BTV	-	YES	1	-	-	-	-	0.08	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T2S2 (440-27510-2)	Bismuth-212	0.75	0.18	0.16	2.38	BTV	-	YES	0.75	-	-	-	-	0.07	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T3S1 (440-27510-1)	Bismuth-212	0.98	0.27	0.25	2.38	BTV	-	YES	0.98	-	-	-	-	0.11	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T4S4 (440-27510-4)	Bismuth-212	0.78	0.17	0.15	2.38	BTV	-	YES	0.78	-	-	-	-	0.06	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T5S6 (440-27510-6)	Bismuth-212	0.95	0.2	0.16	2.38	BTV	-	YES	0.95	-	-	-	-	0.07	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T6S7 (440-27510-7)	Bismuth-212	0.94	0.22	0.17	2.38	BTV	-	YES	0.94	-	-	-	-	0.07	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T7S5 (440-27510-5)	Bismuth-212	0.75	0.23	0.21	2.38	BTV	-	YES	0.75	-	-	-	-	0.09	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/22/2012	125727_2S2 (440-27479-2)	Bismuth-214	0.694	0.089	0.045	1.83	BTV	-	YES	0.694	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S1 (440-27479-1)	Bismuth-214	0.693	0.089	0.045	1.83	BTV	-	YES	0.693	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S3 (440-27479-3)	Bismuth-214	0.7	0.11	0.07	1.83	BTV	-	YES	0.7	-	-	-	-	0.04	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_4S4 (440-27479-4)	Bismuth-214	0.95	0.12	0.05	1.83	BTV	-	YES	0.95	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_5S10 (440-27479-10)	Bismuth-214	0.644	0.082	0.046	1.83	BTV	-	YES	0.644	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S6 (440-27479-6)	Bismuth-214	0.645	0.085	0.045	1.83	BTV	-	YES	0.645	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis	</	

Boeing ISRA Soil Data, IEL-3 (pCi/g) Compared to LUT

Sampling Date	Sample Serial Number	Isotope	Activity	Error (+/-)	MDC	DTSC LUT	LUT Source	Activity > LUT?	Activity > MDC?	Detected Activity	Detected Activity > LUT?	Non-detect Activity	Non-detect Activity > LUT?	MDC > LUT?	Ratio of MDC to LUT	Units	Error Type	Analysis Protocol	Analysis Organization	Comments	Document
10/23/2012	125727_B2S4 (440-27512-4)	Bismuth-214	0.87	0.11	0.05	1.83	BTB	-	YES	0.87	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S6 (440-27512-6)	Bismuth-214	1.1	0.13	0.05	1.83	BTB	-	YES	1.1	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S9 (440-27512-9)	Bismuth-214	0.82	0.1	0.04	1.83	BTB	-	YES	0.82	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B4S5 (440-27512-5)	Bismuth-214	1.07	0.12	0.04	1.83	BTB	-	YES	1.07	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S10 (440-27512-10)	Bismuth-214	0.87	0.1	0.05	1.83	BTB	-	YES	0.87	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S8 (440-27512-8)	Bismuth-214	0.88	0.11	0.04	1.83	BTB	-	YES	0.88	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S11 (440-27512-11)	Bismuth-214	1.23	0.14	0.05	1.83	BTB	-	YES	1.23	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S7 (440-27512-7)	Bismuth-214	1.21	0.14	0.05	1.83	BTB	-	YES	1.21	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_T1S3 (440-27510-3)	Bismuth-214	0.97	0.12	0.05	1.83	BTB	-	YES	0.97	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T2S2 (440-27510-2)	Bismuth-214	0.94	0.11	0.04	1.83	BTB	-	YES	0.94	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T3S1 (440-27510-1)	Bismuth-214	1.03	0.14	0.07	1.83	BTB	-	YES	1.03	-	-	-	-	0.04	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T4S4 (440-27510-4)	Bismuth-214	0.85	0.11	0.05	1.83	BTB	-	YES	0.85	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T5S6 (440-27510-6)	Bismuth-214	0.91	0.11	0.05	1.83	BTB	-	YES	0.91	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T6S7 (440-27510-7)	Bismuth-214	0.85	0.1	0.04	1.83	BTB	-	YES	0.85	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T7S5 (440-27510-5)	Bismuth-214	0.72	0.095	0.057	1.83	BTB	-	YES	0.72	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/22/2012	125727_2S2 (440-27479-2)	Cesium-134	0.011	0.017	0.053	0.0431	MDC	-	-	-	-	0.011	-	YES	1.23	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S1 (440-27479-1)	Cesium-134	0.012	0.012	0.039	0.0431	MDC	-	-	-	-	0.012	-	-	0.90	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S3 (440-27479-3)	Cesium-134	-0.023	0.024	0.04	0.0431	MDC	-	-	-	-	-0.023	-	-	0.93	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_4S4 (440-27479-4)	Cesium-134	0.0022	0.0049	0.071	0.0431	MDC	-	-	-	-	0.0022	-	YES	1.65	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_5S10 (440-27479-10)	Cesium-134	0.016	0.022	0.059	0.0431	MDC	-	-	-	-	0.016	-	YES	1.37	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S6 (440-27479-6)	Cesium-134	0.029	0.018	0.017	0.0431	MDC	-	YES	0.029	-	-	-	-	0.39	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S8 (440-27479-8)	Cesium-134	0.0092	0.0095	0.044	0.0431	MDC	-	-	-	-	0.0092	-	YES	1.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S5 (440-27479-5)	Cesium-134	0.012	0.013	0.054	0.0431	MDC	-	-	-	-	0.012	-	YES	1.25	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S7 (440-27479-7)	Cesium-134	-0.02	0.017	0.027	0.0431	MDC	-	-	-	-	-0.02	-	-	0.63	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S11 (440-27479-11)	Cesium-134	0.009	0.012	0.051	0.0431	MDC	-	-	-	-	0.009	-	YES	1.18	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S9 (440-27479-9)	Cesium-134	0.029	0.023	0.027	0.0431	MDC	-	YES	0.029	-	-	-	-	0.63	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/23/2012	125727_B1S1 (440-27512-1)	Cesium-134	0.0075	0.0099	0.018	0.0431	MDC	-	-	-	-	0.0075	-	-	0.42	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B1S2 (440-27512-2)	Cesium-134	0.0325	0.0095	0.012	0.0431	MDC	-	YES	0.0325	-	-	-	-	0.28	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S3 (440-27512-3)	Cesium-134	0.014	0.017	0.061	0.0431	MDC	-	-	-	-	0.014	-	YES	1.42	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S4 (440-27512-4)	Cesium-134	-0.025	0.018	0.028	0.0431	MDC	-	-	-	-	-0.025	-	-	0.65	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S6 (440-27512-6)	Cesium-134	0.009	0.013	0.065	0.0431	MDC	-	-	-	-	0.009	-	YES	1.51	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S9 (440-27512-9)	Cesium-134	0.01	0.012	0.022	0.0431	MDC	-	-	-	-	0.01	-	-	0.51	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B4S5 (440-27512-5)	Cesium-134	0.013	0.021	0.064	0.0431	MDC	-	-	-	-	0.013	-	YES	1.48	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S10 (440-27512-10)	Cesium-134	0.0015	0.0011	0.024	0.0431	MDC	-	-	-	-	0.0015	-	-	0.56	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S8 (440-27512-8)	Cesium-134	0.0035	0.0061	0.071	0.0431	MDC	-	-	-	-	0.0035	-	YES	1.65	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S11 (440-27512-11)	Cesium-134	0.022	0.021	0.073	0.0431	MDC	-	-	-	-	0.022	-	YES	1.69	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S7 (440-27512-7)	Cesium-134	0.021	0.02	0.021	0.0431	MDC	-	-	-	-	0.021	-	-	0.49	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_T1S3 (440-27510-3)	Cesium-134	0.013	0.018	0.076	0.0431	MDC	-	-	-	-	0.013	-	YES	1.76	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T2S2 (440-27510-2)	Cesium-134	-0.0001	0.0018	0.063	0.0431	MDC	-	-	-	-	-0.0001	-	YES	1.46	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T3S1 (440-27510-1)	Cesium-134	0.018	0.027	0.094	0.0431	MDC	-	-	-	-	0.018	-	YES	2.18	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T4S4 (440-27510-4)	Cesium-134	-0.018	0.015	0.025	0.0431	MDC	-	-	-	-	-0.018	-	-	0.58	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T5S6 (440-27510-6)	Cesium-134	0.008	0.01	0.022	0.0431	MDC	-	-	-	-	0.008	-	-	0.51	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T6S7 (440-27510-7)	Cesium-134	-0.033	0.018	0.028	0.0431	MDC	-	-	-	-	-0.033	-	-	0.65	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T7S5 (440-27510-5)	Cesium-134	0.012	0.025	0.046	0.0431	MDC	-	-	-	-	0.012	-	YES	1.07	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/22/2012	125727_2S2 (440-27479-2)	Cesium-137	-0.001	0.015	0.026	0.225	BTB	-	-	-	-	-0.001	-	-	0.12	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S1 (440-27479-1)	Cesium-137	0.006	0.013	0.022	0.225	BTB	-	-	-	-	0.006	-	-	0.10	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S3 (440-27479-3)	Cesium-137	-0.008	0.024	0.041	0.225	BTB	-	-	-	-	-0.008	-	-	0.18	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_4S4 (440-27479-4)	Cesium-137	-0.003	0.017	0.028	0.225	BTB	-	-	-	-	-0.003	-	-	0.12	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_5S10 (440-27479-10)	Cesium-137	-0.0008	0.013	0.023	0.225	BTB	-	-	-	-	-0.0008	-	-	0.10	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S6 (440-27479-6)	Cesium-137	0.009	0.016	0.026	0.225	BTB	-	-	-	-	0.009	-	-	0.12	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S8 (440-27479-8)	Cesium-137	-0.008	0.014	0.023	0.225	BTB	-	-	-	-	-0.008	-	-	0.10	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S5 (440-27479-5)	Cesium-137	0.0005	0.016	0.027	0.225	BTB	-	-	-	-	0.0005	-	-	0.12	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S7 (440-27479-7)	Cesium-137	-0.006	0.016	0.026	0.225	BTB	-	-	-	-	-0.006	-	-	0.12	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S11 (440-27479-11)	Cesium-137	-0.011	0.015	0.024	0.225	BTB	-	-	-	-	-0.011	-	-	0.11	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S9 (440-27479-9)	Cesium-137	-0.008	0.027	0.045	0.225	BTB	-	-	-	-	-0.008	-	-	0.20	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/23/2012	125727_B1S1 (440-27512-1)	Cesium-137	0.01	0.024	0.03	0.225	BTB	-	-	-	-	0.01	-	-	0.13	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B1S2 (440-27512-2)	Cesium-137	0.005	0.016	0																

Boeing ISRA Soil Data, IEL-3 (pCi/g) Compared to LUT

Sampling Date	Sample Serial Number	Isotope	Activity	Error (+/-)	MDC	DTSC LUT	LUT Source	Activity > LUT?	Activity > MDC?	Detected Activity	Detected Activity > LUT?	Non-detect Activity	Non-detect Activity > LUT?	MDC > LUT?	Ratio of MDC to LUT	Units	Error Type	Analysis Protocol	Analysis Organization	Comments	Document
10/23/2012	125727_B7S7 (440-27512-7)	Cesium-137	0.02	0.015	0.019	0.225	BTW	-	YES	0.02	-	-	-	-	0.08	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_T1S3 (440-27510-3)	Cesium-137	0.014	0.019	0.032	0.225	BTW	-	-	-	-	0.014	-	-	0.14	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T2S2 (440-27510-2)	Cesium-137	0	0.013	0.028	0.225	BTW	-	-	-	-	0	-	-	0.12	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T3S1 (440-27510-1)	Cesium-137	0.015	0.024	0.04	0.225	BTW	-	-	-	-	0.015	-	-	0.18	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T4S4 (440-27510-4)	Cesium-137	-0.005	0.016	0.027	0.225	BTW	-	-	-	-	-0.005	-	-	0.12	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T5S6 (440-27510-6)	Cesium-137	0.007	0.013	0.022	0.225	BTW	-	-	-	-	0.007	-	-	0.10	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T6S7 (440-27510-7)	Cesium-137	-0.003	0.016	0.027	0.225	BTW	-	-	-	-	-0.003	-	-	0.12	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T7S5 (440-27510-5)	Cesium-137	0.03	0.024	0.029	0.225	BTW	-	YES	0.03	-	-	-	-	0.13	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/22/2012	125727_2S2 (440-27479-2)	Cobalt-60	0.0081	0.0095	0.024	0.0363	MDC	-	-	-	-	0.0081	-	-	0.66	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S1 (440-27479-1)	Cobalt-60	-0.008	0.014	0.023	0.0363	MDC	-	-	-	-	-0.008	-	-	0.63	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S3 (440-27479-3)	Cobalt-60	0.006	0.014	0.033	0.0363	MDC	-	-	-	-	0.006	-	-	0.91	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_4S4 (440-27479-4)	Cobalt-60	0.009	0.013	0.026	0.0363	MDC	-	-	-	-	0.009	-	-	0.72	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_5S10 (440-27479-10)	Cobalt-60	0.0018	0.0049	0.027	0.0363	MDC	-	-	-	-	0.0018	-	-	0.74	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S6 (440-27479-6)	Cobalt-60	0.012	0.013	0.025	0.0363	MDC	-	-	-	-	0.012	-	-	0.69	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S8 (440-27479-8)	Cobalt-60	0.0019	0.0024	0.025	0.0363	MDC	-	-	-	-	0.0019	-	-	0.69	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S5 (440-27479-5)	Cobalt-60	0.0005	0.007	0.034	0.0363	MDC	-	-	-	-	0.0005	-	-	0.94	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S7 (440-27479-7)	Cobalt-60	-0.00001	0.012	0.021	0.0363	MDC	-	-	-	-	-0.00001	-	-	0.58	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S11 (440-27479-11)	Cobalt-60	0.004	0.011	0.022	0.0363	MDC	-	-	-	-	0.004	-	-	0.61	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S9 (440-27479-9)	Cobalt-60	0.0005	0.024	0.043	0.0363	MDC	-	-	-	-	0.0005	-	YES	1.18	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/23/2012	125727_B1S1 (440-27512-1)	Cobalt-60	0.017	0.014	0.026	0.0363	MDC	-	-	-	-	0.017	-	-	0.72	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B1S2 (440-27512-2)	Cobalt-60	-0.014	0.075	0.031	0.0363	MDC	-	-	-	-	-0.014	-	-	0.85	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S3 (440-27512-3)	Cobalt-60	0.003	0.014	0.026	0.0363	MDC	-	-	-	-	0.003	-	-	0.72	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S4 (440-27512-4)	Cobalt-60	0.028	0.017	0.027	0.0363	MDC	-	YES	0.028	-	-	-	-	0.74	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S6 (440-27512-6)	Cobalt-60	-0.006	0.014	0.023	0.0363	MDC	-	-	-	-	-0.006	-	-	0.63	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S9 (440-27512-9)	Cobalt-60	-0.008	0.015	0.025	0.0363	MDC	-	-	-	-	-0.008	-	-	0.69	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B4S5 (440-27512-5)	Cobalt-60	0	0.0053	0.024	0.0363	MDC	-	-	-	-	0	-	-	0.66	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S10 (440-27512-10)	Cobalt-60	0.008	0.014	0.023	0.0363	MDC	-	-	-	-	0.008	-	-	0.63	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S8 (440-27512-8)	Cobalt-60	0.002	0.014	0.027	0.0363	MDC	-	-	-	-	0.002	-	-	0.74	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S11 (440-27512-11)	Cobalt-60	0.016	0.014	0.022	0.0363	MDC	-	-	-	-	0.016	-	-	0.61	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S7 (440-27512-7)	Cobalt-60	0.009	0.013	0.024	0.0363	MDC	-	-	-	-	0.009	-	-	0.66	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_T1S3 (440-27510-3)	Cobalt-60	0.029	0.014	0.024	0.0363	MDC	-	YES	0.029	-	-	-	-	0.66	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T2S2 (440-27510-2)	Cobalt-60	0.01	0.013	0.025	0.0363	MDC	-	-	-	-	0.01	-	-	0.69	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T3S1 (440-27510-1)	Cobalt-60	0.01	0.018	0.038	0.0363	MDC	-	-	-	-	0.01	-	YES	1.05	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T4S4 (440-27510-4)	Cobalt-60	0.0015	0.0083	0.019	0.0363	MDC	-	-	-	-	0.0015	-	-	0.52	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis	Sample Recount	440-27510-1
10/23/2012	125727_T5S6 (440-27510-6)	Cobalt-60	0.004	0.01	0.022	0.0363	MDC	-	-	-	-	0.004	-	-	0.61	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T6S7 (440-27510-7)	Cobalt-60	0.0025	0.0093	0.024	0.0363	MDC	-	-	-	-	0.0025	-	-	0.66	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T7S5 (440-27510-5)	Cobalt-60	0.008	0.013	0.027	0.0363	MDC	-	-	-	-	0.008	-	-	0.74	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/22/2012	125727_2S2 (440-27479-2)	Europium-152	0.008	0.029	0.064	0.0739	MDC	-	-	-	-	0.008	-	-	0.87	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S1 (440-27479-1)	Europium-152	0.009	0.0091	0.058	0.0739	MDC	-	-	-	-	0.009	-	-	0.78	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S3 (440-27479-3)	Europium-152	0.0049	0.0069	0.1	0.0739	MDC	-	-	-	-	0.0049	-	YES	1.35	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_4S4 (440-27479-4)	Europium-152	0.011	0.018	0.075	0.0739	MDC	-	-	-	-	0.011	-	YES	1.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_5S10 (440-27479-10)	Europium-152	-0.002	0.04	0.067	0.0739	MDC	-	-	-	-	-0.002	-	-	0.91	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S6 (440-27479-6)	Europium-152	-0.023	0.04	0.067	0.0739	MDC	-	-	-	-	-0.023	-	-	0.91	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S8 (440-27479-8)	Europium-152	0.013	0.027	0.062	0.0739	MDC	-	-	-	-	0.013	-	-	0.84	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S5 (440-27479-5)	Europium-152	-0.001	0.035	0.059	0.0739	MDC	-	-	-	-	-0.001	-	-	0.80	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S7 (440-27479-7)	Europium-152	0.012	0.021	0.064	0.0739	MDC	-	-	-	-	0.012	-	-	0.87	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S11 (440-27479-11)	Europium-152	0.004	0.043	0.051	0.0739	MDC	-	-	-	-	0.004	-	-	0.69	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S9 (440-27479-9)	Europium-152	0.013	0.035	0.11	0.0739	MDC	-	-	-	-	0.013	-	YES	1.49	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/23/2012	125727_B1S1 (440-27512-1)	Europium-152	-0.023	0.048	0.08	0.0739	MDC	-	-	-	-	-0.023	-	YES	1.08	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B1S2 (440-27512-2)	Europium-152	-0.034	0.043	0.071	0.0739	MDC	-	-	-	-	-0.034	-	-	0.96	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S3 (440-27512-3)	Europium-152	0.005	0.047	0.08	0.0739	MDC	-	-	-	-	0.005	-	YES	1.08	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S4 (440-27512-4)	Europium-152	-0.008	0.041	0.069	0.0739	MDC	-	-	-	-	-0.008	-	-	0.93	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S6 (440-27512-6)	Europium-152	-0.012	0.034	0.056	0.0739	MDC	-	-	-	-	-0.012	-	-	0.76	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S9 (440-27512-9)	Europium-152	0.014	0.03	0.049	0.0739	MDC	-	-	-	-	0.014	-	-	0.66	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B4S5 (440-27512-5)	Europium-152	0.01	0.022	0.072	0.0739	MDC	-	-	-	-	0.01	-	-	0.97	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S10 (440-27512-10)	Europium-152	0.01	0.035	0.067	0.0739	MDC	-	-	-	-	0.01	-	-	0.91	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S8 (440-27512-																				

Boeing ISRA Soil Data, IEL-3 (pCi/g) Compared to LUT

Sampling Date	Sample Serial Number	Isotope	Activity	Error (+/-)	MDC	DTSC LUT	LUT Source	Activity > LUT?	Activity > MDC?	Detected Activity	Detected Activity > LUT?	Non-detect Activity	Non-detect Activity > LUT?	MDC > LUT?	Ratio of MDC to LUT	Units	Error Type	Analysis Protocol	Analysis Organization	Comments	Document
10/23/2012	125727_T7S5 (440-27510-5)	Europium-152	0.005	0.04	0.067	0.0739	MDC	-	-	-	-	0.005	-	-	0.91	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/22/2012	125727_2S2 (440-27479-2)	Europium-154	0.03	0.087	0.15	0.198	MDC	-	-	-	-	0.03	-	-	0.76	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S1 (440-27479-1)	Europium-154	-0.049	0.085	0.14	0.198	MDC	-	-	-	-	-0.049	-	-	0.71	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S3 (440-27479-3)	Europium-154	0.028	0.064	0.21	0.198	MDC	-	-	-	-	0.028	-	YES	1.06	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_4S4 (440-27479-4)	Europium-154	-0.0563	0.0999	0.17	0.198	MDC	-	-	-	-	-0.0563	-	-	0.86	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_5S10 (440-27479-10)	Europium-154	0.013	0.091	0.15	0.198	MDC	-	-	-	-	0.013	-	-	0.76	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S6 (440-27479-6)	Europium-154	-0.062	0.087	0.14	0.198	MDC	-	-	-	-	-0.062	-	-	0.71	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S8 (440-27479-8)	Europium-154	0.009	0.019	0.15	0.198	MDC	-	-	-	-	0.009	-	-	0.76	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S5 (440-27479-5)	Europium-154	0.023	0.036	0.11	0.198	MDC	-	-	-	-	0.023	-	-	0.56	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S7 (440-27479-7)	Europium-154	0.043	0.08	0.15	0.198	MDC	-	-	-	-	0.043	-	-	0.76	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S11 (440-27479-11)	Europium-154	0.034	0.041	0.13	0.198	MDC	-	-	-	-	0.034	-	-	0.66	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S9 (440-27479-9)	Europium-154	0.01	0.11	0.23	0.198	MDC	-	-	-	-	0.01	-	YES	1.16	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/23/2012	125727_B1S1 (440-27512-1)	Europium-154	0.06	0.11	0.18	0.198	MDC	-	-	-	-	0.06	-	-	0.91	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B1S2 (440-27512-2)	Europium-154	-0.06	0.098	0.16	0.198	MDC	-	-	-	-	-0.06	-	-	0.81	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S3 (440-27512-3)	Europium-154	-0.02	0.11	0.18	0.198	MDC	-	-	-	-	-0.02	-	-	0.91	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S4 (440-27512-4)	Europium-154	-0.049	0.097	0.16	0.198	MDC	-	-	-	-	-0.049	-	-	0.81	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S6 (440-27512-6)	Europium-154	0.017	0.056	0.14	0.198	MDC	-	-	-	-	0.017	-	-	0.71	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S9 (440-27512-9)	Europium-154	-0.058	0.092	0.15	0.198	MDC	-	-	-	-	-0.058	-	-	0.76	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B4S5 (440-27512-5)	Europium-154	0.019	0.048	0.13	0.198	MDC	-	-	-	-	0.019	-	-	0.66	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S10 (440-27512-10)	Europium-154	0.03	0.038	0.14	0.198	MDC	-	-	-	-	0.03	-	-	0.71	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S8 (440-27512-8)	Europium-154	-0.068	0.095	0.16	0.198	MDC	-	-	-	-	-0.068	-	-	0.81	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S11 (440-27512-11)	Europium-154	0.0061	0.0057	0.17	0.198	MDC	-	-	-	-	0.0061	-	-	0.86	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S7 (440-27512-7)	Europium-154	-0.05	0.11	0.18	0.198	MDC	-	-	-	-	-0.05	-	-	0.91	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_T1S3 (440-27510-3)	Europium-154	-0.06	0.11	0.18	0.198	MDC	-	-	-	-	-0.06	-	-	0.91	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T2S2 (440-27510-2)	Europium-154	0.033	0.069	0.15	0.198	MDC	-	-	-	-	0.033	-	-	0.76	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T3S1 (440-27510-1)	Europium-154	-0.08	0.15	0.25	0.198	MDC	-	-	-	-	-0.08	-	YES	1.26	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T4S4 (440-27510-4)	Europium-154	0.0012	0.0044	0.16	0.198	MDC	-	-	-	-	0.0012	-	-	0.81	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T5S6 (440-27510-6)	Europium-154	0.011	0.081	0.14	0.198	MDC	-	-	-	-	0.011	-	-	0.71	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T6S7 (440-27510-7)	Europium-154	-0.009	0.015	0.16	0.198	MDC	-	-	-	-	-0.009	-	-	0.81	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T7S5 (440-27510-5)	Europium-154	0.014	0.032	0.21	0.198	MDC	-	-	-	-	0.014	-	YES	1.06	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/22/2012	125727_2S2 (440-27479-2)	Europium-155	0.064	0.04	0.052	0.231	BTV	-	YES	0.064	-	-	-	-	0.23	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S1 (440-27479-1)	Europium-155	0.062	0.041	0.053	0.231	BTV	-	YES	0.062	-	-	-	-	0.23	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S3 (440-27479-3)	Europium-155	0.057	0.056	0.091	0.231	BTV	-	-	-	-	0.057	-	-	0.39	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_4S4 (440-27479-4)	Europium-155	0.055	0.046	0.075	0.231	BTV	-	-	-	-	0.055	-	-	0.32	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_5S10 (440-27479-10)	Europium-155	0.044	0.042	0.069	0.231	BTV	-	-	-	-	0.044	-	-	0.30	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S6 (440-27479-6)	Europium-155	0.077	0.045	0.057	0.231	BTV	-	YES	0.077	-	-	-	-	0.25	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S8 (440-27479-8)	Europium-155	0.084	0.042	0.054	0.231	BTV	-	YES	0.084	-	-	-	-	0.23	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S5 (440-27479-5)	Europium-155	0.055	0.044	0.072	0.231	BTV	-	-	-	-	0.055	-	-	0.31	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S7 (440-27479-7)	Europium-155	0.032	0.044	0.072	0.231	BTV	-	-	-	-	0.032	-	-	0.31	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S11 (440-27479-11)	Europium-155	0.068	0.043	0.055	0.231	BTV	-	YES	0.068	-	-	-	-	0.24	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S9 (440-27479-9)	Europium-155	0.141	0.071	0.086	0.231	BTV	-	YES	0.141	-	-	-	-	0.37	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/23/2012	125727_B1S1 (440-27512-1)	Europium-155	0.079	0.047	0.062	0.231	BTV	-	YES	0.079	-	-	-	-	0.27	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B1S2 (440-27512-2)	Europium-155	0.093	0.05	0.062	0.231	BTV	-	YES	0.093	-	-	-	-	0.27	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S3 (440-27512-3)	Europium-155	0.092	0.049	0.062	0.231	BTV	-	YES	0.092	-	-	-	-	0.27	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S4 (440-27512-4)	Europium-155	0.069	0.046	0.073	0.231	BTV	-	-	-	-	0.069	-	-	0.32	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S6 (440-27512-6)	Europium-155	0.03	0.045	0.074	0.231	BTV	-	-	-	-	0.03	-	-	0.32	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S9 (440-27512-9)	Europium-155	0.039	0.041	0.068	0.231	BTV	-	-	-	-	0.039	-	-	0.29	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B4S5 (440-27512-5)	Europium-155	0.097	0.054	0.065	0.231	BTV	-	YES	0.097	-	-	-	-	0.28	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S10 (440-27512-10)	Europium-155	0.059	0.047	0.061	0.231	BTV	-	-	-	-	0.059	-	-	0.26	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S8 (440-27512-8)	Europium-155	0.037	0.045	0.074	0.231	BTV	-	-	-	-	0.037	-	-	0.32	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S11 (440-27512-11)	Europium-155	0.093	0.055	0.067	0.231	BTV	-	YES	0.093	-	-	-	-	0.29	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S7 (440-27512-7)	Europium-155	0.1	0.046	0.06	0.231	BTV	-	YES	0.1	-	-	-	-	0.26	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_T1S3 (440-27510-3)	Europium-155	0.082	0.057	0.067	0.231	BTV	-	YES	0.082	-	-	-	-	0.29	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T2S2 (440-27510-2)	Europium-155	0.076	0.037	0.047	0.231	BTV	-	YES	0.076	-	-	-	-	0.20	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T3S1 (440-27510-1)	Europium-155	0.095	0.057	0.077	0.231	BTV	-	YES	0.095	-	-	-	-	0.33	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T4S4 (440-27510-4)	Europium-155	0.049	0.048	0.062	0.231	BTV	-	-	-	-	0.049	-	-	0.27	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T5S6 (440-27510-6)	Europium-155	0.069	0.0																	

Boeing ISRA Soil Data, IEL-3 (pCi/g) Compared to LUT

Sampling Date	Sample Serial Number	Isotope	Activity	Error (+/-)	MDC	DTSC LUT	LUT Source	Activity > LUT ?	Activity > MDC ?	Detected Activity	Detected Activity > LUT ?	Non-detect Activity	Non-detect Activity > LUT ?	MDC > LUT ?	Ratio of MDC to LUT	Units	Error Type	Analysis Protocol	Analysis Organization	Comments	Document
10/22/2012	125727_6S8 (440-27479-8)	Lead-212	1.15	0.15	0.04	3.11	BTV	-	YES	1.15	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S5 (440-27479-5)	Lead-212	1.19	0.16	0.04	3.11	BTV	-	YES	1.19	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S7 (440-27479-7)	Lead-212	0.94	0.13	0.04	3.11	BTV	-	YES	0.94	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S11 (440-27479-11)	Lead-212	1.13	0.15	0.04	3.11	BTV	-	YES	1.13	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S9 (440-27479-9)	Lead-212	1.22	0.17	0.06	3.11	BTV	-	YES	1.22	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/23/2012	125727_B1S1 (440-27512-1)	Lead-212	1.28	0.17	0.04	3.11	BTV	-	YES	1.28	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B1S2 (440-27512-2)	Lead-212	1.15	0.25	0.05	3.11	BTV	-	YES	1.15	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S3 (440-27512-3)	Lead-212	1.3	0.18	0.05	3.11	BTV	-	YES	1.3	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S4 (440-27512-4)	Lead-212	1.21	0.16	0.04	3.11	BTV	-	YES	1.21	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S6 (440-27512-6)	Lead-212	1.08	0.15	0.05	3.11	BTV	-	YES	1.08	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S9 (440-27512-9)	Lead-212	1.08	0.14	0.04	3.11	BTV	-	YES	1.08	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B4S5 (440-27512-5)	Lead-212	1.46	0.2	0.04	3.11	BTV	-	YES	1.46	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S10 (440-27512-10)	Lead-212	1.26	0.17	0.04	3.11	BTV	-	YES	1.26	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S8 (440-27512-8)	Lead-212	1.04	0.14	0.05	3.11	BTV	-	YES	1.04	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S11 (440-27512-11)	Lead-212	1.44	0.19	0.05	3.11	BTV	-	YES	1.44	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S7 (440-27512-7)	Lead-212	1.54	0.21	0.04	3.11	BTV	-	YES	1.54	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_T1S3 (440-27510-3)	Lead-212	1.16	0.16	0.05	3.11	BTV	-	YES	1.16	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T2S2 (440-27510-2)	Lead-212	1.19	0.16	0.03	3.11	BTV	-	YES	1.19	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T3S1 (440-27510-1)	Lead-212	1.34	0.18	0.06	3.11	BTV	-	YES	1.34	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T4S4 (440-27510-4)	Lead-212	1.17	0.16	0.04	3.11	BTV	-	YES	1.17	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T5S6 (440-27510-6)	Lead-212	1.12	0.15	0.05	3.11	BTV	-	YES	1.12	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T6S7 (440-27510-7)	Lead-212	1.2	0.16	0.04	3.11	BTV	-	YES	1.2	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T7S5 (440-27510-5)	Lead-212	1.27	0.17	0.04	3.11	BTV	-	YES	1.27	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/22/2012	125727_2S2 (440-27479-2)	Lead-214	0.773	0.093	0.047	1.96	BTV	-	YES	0.773	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S1 (440-27479-1)	Lead-214	0.661	0.083	0.044	1.96	BTV	-	YES	0.661	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S3 (440-27479-3)	Lead-214	0.76	0.11	0.07	1.96	BTV	-	YES	0.76	-	-	-	-	0.04	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_4S4 (440-27479-4)	Lead-214	0.95	0.11	0.06	1.96	BTV	-	YES	0.95	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_5S10 (440-27479-10)	Lead-214	0.7	0.086	0.052	1.96	BTV	-	YES	0.7	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S6 (440-27479-6)	Lead-214	0.731	0.091	0.042	1.96	BTV	-	YES	0.731	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S8 (440-27479-8)	Lead-214	0.808	0.097	0.051	1.96	BTV	-	YES	0.808	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S5 (440-27479-5)	Lead-214	0.742	0.091	0.045	1.96	BTV	-	YES	0.742	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S7 (440-27479-7)	Lead-214	0.446	0.061	0.044	1.96	BTV	-	YES	0.446	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S11 (440-27479-11)	Lead-214	0.671	0.085	0.049	1.96	BTV	-	YES	0.671	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S9 (440-27479-9)	Lead-214	1.19	0.15	0.08	1.96	BTV	-	YES	1.19	-	-	-	-	0.04	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/23/2012	125727_B1S1 (440-27512-1)	Lead-214	0.9	0.12	0.07	1.96	BTV	-	YES	0.9	-	-	-	-	0.04	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B1S2 (440-27512-2)	Lead-214	1.05	0.15	0.05	1.96	BTV	-	YES	1.05	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S3 (440-27512-3)	Lead-214	0.92	0.11	0.05	1.96	BTV	-	YES	0.92	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S4 (440-27512-4)	Lead-214	0.99	0.12	0.05	1.96	BTV	-	YES	0.99	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S6 (440-27512-6)	Lead-214	1.18	0.13	0.04	1.96	BTV	-	YES	1.18	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S9 (440-27512-9)	Lead-214	0.84	0.1	0.05	1.96	BTV	-	YES	0.84	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B4S5 (440-27512-5)	Lead-214	1.11	0.13	0.05	1.96	BTV	-	YES	1.11	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S10 (440-27512-10)	Lead-214	0.93	0.11	0.05	1.96	BTV	-	YES	0.93	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S8 (440-27512-8)	Lead-214	0.95	0.11	0.05	1.96	BTV	-	YES	0.95	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S11 (440-27512-11)	Lead-214	1.23	0.14	0.06	1.96	BTV	-	YES	1.23	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S7 (440-27512-7)	Lead-214	1.27	0.14	0.06	1.96	BTV	-	YES	1.27	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_T1S3 (440-27510-3)	Lead-214	1.06	0.13	0.05	1.96	BTV	-	YES	1.06	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T2S2 (440-27510-2)	Lead-214	1.01	0.11	0.04	1.96	BTV	-	YES	1.01	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T3S1 (440-27510-1)	Lead-214	1.11	0.15	0.08	1.96	BTV	-	YES	1.11	-	-	-	-	0.04	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T4S4 (440-27510-4)	Lead-214	0.9	0.11	0.05	1.96	BTV	-	YES	0.9	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T5S6 (440-27510-6)	Lead-214	0.96	0.11	0.05	1.96	BTV	-	YES	0.96	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T6S7 (440-27510-7)	Lead-214	0.95	0.11	0.05	1.96	BTV	-	YES	0.95	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T7S5 (440-27510-5)	Lead-214	0.744	0.098	0.058	1.96	BTV	-	YES	0.744	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/22/2012	125727_2S2 (440-27479-2)	Potassium-40	19.9	2.1	0.2	35.5	BTV	-	YES	19.9	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S1 (440-27479-1)	Potassium-40	19.8	2.1	0.2	35.5	BTV	-	YES	19.8	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S3 (440-27479-3)	Potassium-40	20.3	2.2	0.3	35.5	BTV	-	YES	20.3	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_4S4 (440-27479-4)	Potassium-40	19.8	2.1	0.3	35.5	BTV	-	YES	19.8	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_5S10 (440-27479-10)	Potassium-40	22.5	2.4	0.2	35.5	BTV	-	YES	22.5	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S6 (440-27479-6)	Potassium-40	19.8	2.1	0.2	35.5	BTV	-	YES	19.8											

Boeing ISRA Soil Data, IEL-3 (pCi/g) Compared to LUT

Sampling Date	Sample Serial Number	Isotope	Activity	Error (+/-)	MDC	DTSC LUT	LUT Source	Activity > LUT?	Activity > MDC?	Detected Activity	Detected Activity > LUT?	Non-detect Activity	Non-detect Activity > LUT?	MDC > LUT?	Ratio of MDC to LUT	Units	Error Type	Analysis Protocol	Analysis Organization	Comments	Document
10/23/2012	125727_B2S3 (440-27512-3)	Potassium-40	19.2	2.1	0.3	35.5	BTV	-	YES	19.2	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S4 (440-27512-4)	Potassium-40	19.8	2.1	0.2	35.5	BTV	-	YES	19.8	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S6 (440-27512-6)	Potassium-40	21.1	2.2	0.3	35.5	BTV	-	YES	21.1	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S9 (440-27512-9)	Potassium-40	20.2	2.1	0.3	35.5	BTV	-	YES	20.2	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B4S5 (440-27512-5)	Potassium-40	20.4	2.2	0.2	35.5	BTV	-	YES	20.4	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S10 (440-27512-10)	Potassium-40	20.4	2.2	0.3	35.5	BTV	-	YES	20.4	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S8 (440-27512-8)	Potassium-40	20.2	2.1	0.3	35.5	BTV	-	YES	20.2	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S11 (440-27512-11)	Potassium-40	18.4	2	0.3	35.5	BTV	-	YES	18.4	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S7 (440-27512-7)	Potassium-40	17	1.8	0.2	35.5	BTV	-	YES	17	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_T1S3 (440-27510-3)	Potassium-40	19.3	2.1	0.3	35.5	BTV	-	YES	19.3	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T2S2 (440-27510-2)	Potassium-40	19.4	2.1	0.2	35.5	BTV	-	YES	19.4	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T3S1 (440-27510-1)	Potassium-40	19.3	2.2	0.3	35.5	BTV	-	YES	19.3	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T4S4 (440-27510-4)	Potassium-40	19.7	2.1	0.3	35.5	BTV	-	YES	19.7	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T5S6 (440-27510-6)	Potassium-40	19.3	2.1	0.2	35.5	BTV	-	YES	19.3	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T6S7 (440-27510-7)	Potassium-40	19.6	2.1	0.2	35.5	BTV	-	YES	19.6	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T7S5 (440-27510-5)	Potassium-40	19.7	2.1	0.2	35.5	BTV	-	YES	19.7	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/22/2012	125727_2S2 (440-27479-2)	Protactinium-231	0.14	0.59	0.98	1.22	BTV	-	-	-	-	0.14	-	-	0.80	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S1 (440-27479-1)	Protactinium-231	0.032	0.059	0.94	1.22	BTV	-	-	-	-	0.032	-	-	0.77	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S3 (440-27479-3)	Protactinium-231	0.47	0.88	1.5	1.22	BTV	-	-	-	-	0.47	-	YES	1.23	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_4S4 (440-27479-4)	Protactinium-231	0.23	0.73	1.2	1.22	BTV	-	-	-	-	0.23	-	-	0.98	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_5S10 (440-27479-10)	Protactinium-231	-0.05	0.57	0.95	1.22	BTV	-	-	-	-	-0.05	-	-	0.78	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S6 (440-27479-6)	Protactinium-231	0.07	0.11	1.1	1.22	BTV	-	-	-	-	0.07	-	-	0.90	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S8 (440-27479-8)	Protactinium-231	0.01	0.61	1	1.22	BTV	-	-	-	-	0.01	-	-	0.82	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S5 (440-27479-5)	Protactinium-231	0.13	0.51	0.85	1.22	BTV	-	-	-	-	0.13	-	-	0.70	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S7 (440-27479-7)	Protactinium-231	0.009	0.64	1.1	1.22	BTV	-	-	-	-	0.009	-	-	0.90	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S11 (440-27479-11)	Protactinium-231	-0.23	0.63	1	1.22	BTV	-	-	-	-	-0.23	-	-	0.82	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S9 (440-27479-9)	Protactinium-231	0.3	1.1	1.8	1.22	BTV	-	-	-	-	0.3	-	YES	1.48	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/23/2012	125727_B1S1 (440-27512-1)	Protactinium-231	0.26	0.78	1.3	1.22	BTV	-	-	-	-	0.26	-	YES	1.07	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B1S2 (440-27512-2)	Protactinium-231	0.25	0.42	1.2	1.22	BTV	-	-	-	-	0.25	-	-	0.98	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S3 (440-27512-3)	Protactinium-231	0.23	0.72	1.2	1.22	BTV	-	-	-	-	0.23	-	-	0.98	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S4 (440-27512-4)	Protactinium-231	0.91	0.79	0.95	1.22	BTV	-	-	-	-	0.91	-	-	0.78	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S6 (440-27512-6)	Protactinium-231	-0.15	0.56	0.93	1.22	BTV	-	-	-	-	-0.15	-	-	0.76	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S9 (440-27512-9)	Protactinium-231	-0.19	0.65	1.1	1.22	BTV	-	-	-	-	-0.19	-	-	0.90	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B4S5 (440-27512-5)	Protactinium-231	-0.21	0.71	1.2	1.22	BTV	-	-	-	-	-0.21	-	-	0.98	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S10 (440-27512-10)	Protactinium-231	-0.12	0.45	0.75	1.22	BTV	-	-	-	-	-0.12	-	-	0.61	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S8 (440-27512-8)	Protactinium-231	0.004	0.53	0.9	1.22	BTV	-	-	-	-	0.004	-	-	0.74	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S11 (440-27512-11)	Protactinium-231	0.39	0.71	1.2	1.22	BTV	-	-	-	-	0.39	-	-	0.98	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S7 (440-27512-7)	Protactinium-231	0.35	0.72	1.2	1.22	BTV	-	-	-	-	0.35	-	-	0.98	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_T1S3 (440-27510-3)	Protactinium-231	-0.06	0.23	1.3	1.22	BTV	-	-	-	-	-0.06	-	YES	1.07	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T2S2 (440-27510-2)	Protactinium-231	0.78	0.63	0.75	1.22	BTV	-	YES	0.78	-	-	-	-	0.61	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T3S1 (440-27510-1)	Protactinium-231	0.65	0.94	1.6	1.22	BTV	-	-	-	-	0.65	-	YES	1.31	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T4S4 (440-27510-4)	Protactinium-231	0.41	0.59	0.96	1.22	BTV	-	-	-	-	0.41	-	-	0.79	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T5S6 (440-27510-6)	Protactinium-231	-0.23	0.68	1.1	1.22	BTV	-	-	-	-	-0.23	-	-	0.90	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T6S7 (440-27510-7)	Protactinium-231	-0.22	0.68	1.1	1.22	BTV	-	-	-	-	-0.22	-	-	0.90	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T7S5 (440-27510-5)	Protactinium-231	0.12	0.22	1.2	1.22	BTV	-	-	-	-	0.12	-	-	0.98	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/22/2012	125727_2S2 (440-27479-2)	Sodium-22	-0.01	0.018	0.03	0.0468	MDC	-	-	-	-	-0.01	-	-	0.64	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S1 (440-27479-1)	Sodium-22	-0.0002	0.014	0.024	0.0468	MDC	-	-	-	-	-0.0002	-	-	0.51	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S3 (440-27479-3)	Sodium-22	-0.008	0.026	0.044	0.0468	MDC	-	-	-	-	-0.008	-	-	0.94	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_4S4 (440-27479-4)	Sodium-22	0.005	0.017	0.028	0.0468	MDC	-	-	-	-	0.005	-	-	0.60	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_5S10 (440-27479-10)	Sodium-22	0.0006	0.017	0.029	0.0468	MDC	-	-	-	-	0.0006	-	-	0.62	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S6 (440-27479-6)	Sodium-22	0	0.012	0.034	0.0468	MDC	-	-	-	-	0	-	-	0.73	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S8 (440-27479-8)	Sodium-22	0.003	0.015	0.025	0.0468	MDC	-	-	-	-	0.003	-	-	0.53	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S5 (440-27479-5)	Sodium-22	0.009	0.016	0.026	0.0468	MDC	-	-	-	-	0.009	-	-	0.56	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S7 (440-27479-7)	Sodium-22	0.003	0.019	0.032	0.0468	MDC	-	-	-	-	0.003	-	-	0.68	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S11 (440-27479-11)	Sodium-22	0.013	0.014	0.024	0.0468	MDC	-	-	-	-	0.013	-	-	0.51	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S9 (440-27479-9)	Sodium-22	0.009	0.027	0.045	0.0468	MDC	-	-	-	-	0.009	-	-	0.96	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/23/2012	125727_B1S1 (440-27512-1)	Sodium-22	0	0.022	0.04	0.0468	MDC	-	-	-	-	0	-	-	0.85	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B1S2 (440-27512-2)	Sodium-22	0.0005	0.018	0.03	0.0468	MDC	-	-	-	-	0.0005	-	-							

Boeing ISRA Soil Data, IEL-3 (pCi/g) Compared to LUT

Sampling Date	Sample Serial Number	Isotope	Activity	Error (+/-)	MDC	DTSC LUT	LUT Source	Activity > LUT?	Activity > MDC?	Detected Activity	Detected Activity > LUT?	Non-detect Activity	Non-detect Activity > LUT?	MDC > LUT?	Ratio of MDC to LUT	Units	Error Type	Analysis Protocol	Analysis Organization	Comments	Document
10/23/2012	125727_B7S11 (440-27512-11)	Sodium-22	-0.006	0.02	0.033	0.0468	MDC	-	-	-	-	-0.006	-	-	0.71	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S7 (440-27512-7)	Sodium-22	-0.007	0.019	0.033	0.0468	MDC	-	-	-	-	-0.007	-	-	0.71	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_T1S3 (440-27510-3)	Sodium-22	0.006	0.021	0.035	0.0468	MDC	-	-	-	-	0.006	-	-	0.75	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T2S2 (440-27510-2)	Sodium-22	-0.01	0.02	0.033	0.0468	MDC	-	-	-	-	-0.01	-	-	0.71	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T3S1 (440-27510-1)	Sodium-22	-0.008	0.03	0.05	0.0468	MDC	-	-	-	-	-0.008	-	YES	1.07	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T4S4 (440-27510-4)	Sodium-22	-0.008	0.018	0.03	0.0468	MDC	-	-	-	-	-0.008	-	-	0.64	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T5S6 (440-27510-6)	Sodium-22	-0.003	0.018	0.031	0.0468	MDC	-	-	-	-	-0.003	-	-	0.66	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T6S7 (440-27510-7)	Sodium-22	-0.002	0.016	0.027	0.0468	MDC	-	-	-	-	-0.002	-	-	0.58	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T7S5 (440-27510-5)	Sodium-22	-0.003	0.038	0.039	0.0468	MDC	-	-	-	-	-0.003	-	-	0.83	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/22/2012	125727_2S2 (440-27479-2)	Strontium-90	-0.13	0.25	0.44	0.117	MDC	-	-	-	-	-0.13	-	YES	3.76	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis		440-27479-1
10/22/2012	125727_2S2 (440-27479-2)_RE	Strontium-90	0.043	0.031	0.048	0.117	MDC	-	-	-	-	0.043	-	-	0.41	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis	Reanalysis	440-27479-1
10/22/2012	125727_3S1 (440-27479-1)	Strontium-90	-0.01	0.34	0.57	0.117	MDC	-	-	-	-	-0.01	-	YES	4.87	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S1 (440-27479-1)_RE	Strontium-90	0.043	0.026	0.041	0.117	MDC	-	YES	0.043	-	-	-	-	0.35	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis	Reanalysis	440-27479-1
10/22/2012	125727_3S3 (440-27479-3)	Strontium-90	-0.05	0.2	0.34	0.117	MDC	-	-	-	-	-0.05	-	YES	2.91	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S3 (440-27479-3)_RE	Strontium-90	-0.008	0.023	0.039	0.117	MDC	-	-	-	-	-0.008	-	-	0.33	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis	Reanalysis	440-27479-1
10/22/2012	125727_4S4 (440-27479-4)	Strontium-90	-0.06	0.23	0.4	0.117	MDC	-	-	-	-	-0.06	-	YES	3.42	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis		440-27479-1
10/22/2012	125727_4S4 (440-27479-4)_RE	Strontium-90	-0.003	0.027	0.047	0.117	MDC	-	-	-	-	-0.003	-	-	0.40	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis	Reanalysis	440-27479-1
10/22/2012	125727_5S10 (440-27479-10)	Strontium-90	-0.005	0.27	0.45	0.117	MDC	-	-	-	-	-0.005	-	YES	3.85	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis		440-27479-1
10/22/2012	125727_5S10 (440-27479-10)_RE	Strontium-90	-0.002	0.026	0.046	0.117	MDC	-	-	-	-	-0.002	-	-	0.39	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis	Reanalysis	440-27479-1
10/22/2012	125727_6S6 (440-27479-6)	Strontium-90	0.18	0.16	0.25	0.117	MDC	YES	-	-	-	0.18	YES	YES	2.14	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S6 (440-27479-6)_RE	Strontium-90	0.01	0.029	0.048	0.117	MDC	-	-	-	-	0.01	-	-	0.41	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis	Reanalysis	440-27479-1
10/22/2012	125727_6S8 (440-27479-8)	Strontium-90	-0.03	0.24	0.41	0.117	MDC	-	-	-	-	-0.03	-	YES	3.50	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S8 (440-27479-8)_RE	Strontium-90	0.023	0.03	0.049	0.117	MDC	-	-	-	-	0.023	-	-	0.42	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis	Reanalysis	440-27479-1
10/22/2012	125727_7S5 (440-27479-5)	Strontium-90	-0.08	0.26	0.44	0.117	MDC	-	-	-	-	-0.08	-	YES	3.76	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S5 (440-27479-5)_RE	Strontium-90	0.048	0.028	0.042	0.117	MDC	-	YES	0.048	-	-	-	-	0.36	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis	Reanalysis	440-27479-1
10/22/2012	125727_7S7 (440-27479-7)	Strontium-90	-0.17	0.31	0.53	0.117	MDC	-	-	-	-	-0.17	-	YES	4.53	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S7 (440-27479-7)_RE	Strontium-90	-0.002	0.026	0.045	0.117	MDC	-	-	-	-	-0.002	-	-	0.38	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis	Reanalysis	440-27479-1
10/22/2012	125727_8S11 (440-27479-11)	Strontium-90	0.29	0.16	0.26	0.117	MDC	YES	YES	0.29	YES	-	-	YES	2.22	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S11 (440-27479-11)_RE	Strontium-90	0.002	0.022	0.038	0.117	MDC	-	-	-	-	0.002	-	-	0.32	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis	Reanalysis	440-27479-1
10/22/2012	125727_8S9 (440-27479-9)	Strontium-90	-0.45	0.33	0.58	0.117	MDC	-	-	-	-	-0.45	-	YES	4.96	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S9 (440-27479-9)_RE	Strontium-90	0.036	0.027	0.042	0.117	MDC	-	-	-	-	0.036	-	-	0.36	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis	Reanalysis	440-27479-1
10/23/2012	125727_B1S1 (440-27512-1)	Strontium-90	0.06	0.15	0.25	0.117	MDC	-	-	-	-	0.06	-	YES	2.14	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B1S1 (440-27512-1)_RE	Strontium-90	0.019	0.026	0.043	0.117	MDC	-	-	-	-	0.019	-	-	0.37	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis	Reanalysis	440-27512-1
10/23/2012	125727_B1S2 (440-27512-2)	Strontium-90	0.24	0.15	0.24	0.117	MDC	YES	-	-	-	0.24	YES	YES	2.05	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B1S2 (440-27512-2)_RE	Strontium-90	-0.002	0.02	0.035	0.117	MDC	-	-	-	-	-0.002	-	-	0.30	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis	Reanalysis	440-27512-1
10/23/2012	125727_B2S3 (440-27512-3)	Strontium-90	0.01	0.18	0.31	0.117	MDC	-	-	-	-	0.01	-	YES	2.65	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S3 (440-27512-3)_RE	Strontium-90	-0.021	0.026	0.046	0.117	MDC	-	-	-	-	-0.021	-	-	0.39	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis	Reanalysis	440-27512-1
10/23/2012	125727_B2S4 (440-27512-4)	Strontium-90	-0.05	0.14	0.24	0.117	MDC	-	-	-	-	-0.05	-	YES	2.05	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S4 (440-27512-4)_RE	Strontium-90	-0.001	0.02	0.035	0.117	MDC	-	-	-	-	-0.001	-	-	0.30	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis	Reanalysis	440-27512-1
10/23/2012	125727_B3S6 (440-27512-6)	Strontium-90	-0.06	0.11	0.19	0.117	MDC	-	-	-	-	-0.06	-	YES	1.62	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S6 (440-27512-6)_RE	Strontium-90	-0.0003	0.026	0.046	0.117	MDC	-	-	-	-	-0.0003	-	-	0.39	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis	Reanalysis	440-27512-1
10/23/2012	125727_B3S9 (440-27512-9)	Strontium-90	-0.04	0.13	0.22	0.117	MDC	-	-	-	-	-0.04	-	YES	1.88	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S9 (440-27512-9)_RE	Strontium-90	0.005	0.025	0.043	0.117	MDC	-	-	-	-	0.005	-	-	0.37	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis	Reanalysis	440-27512-1
10/23/2012	125727_B4S5 (440-27512-5)	Strontium-90	0.02	0.15	0.24	0.117	MDC	-	-	-	-	0.02	-	YES	2.05	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B4S5 (440-27512-5)_RE	Strontium-90	-0.003	0.025	0.044	0.117	MDC	-	-	-	-	-0.003	-	-	0.38	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis	Reanalysis	440-27512-1
10/23/2012	125727_B5S10 (440-27512-10)	Strontium-90	0.27	0.16	0.25	0.117	MDC	YES	YES	0.27	YES	-	-	YES	2.14	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S10 (440-27512-10)_RE	Strontium-90	0.005	0.025	0.042	0.117	MDC	-	-	-	-	0.005	-	-	0.36	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis	Reanalysis	440-27512-1
10/23/2012	125727_B5S8 (440-27512-8)	Strontium-90	-0.02	0.18	0.3	0.117	MDC	-	-	-	-	-0.02	-	YES	2.56	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S8 (440-27512-8)_RE	Strontium-90	-0.022	0.02	0.038	0.117	MDC	-	-	-	-	-0.022	-	-	0.32	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis	Reanalysis	440-27512-1
10/23/2012	125727_B7S11 (440-27512-11)	Strontium-90	-0.09	0.16	0.28	0.117	MDC	-	-	-	-	-0.09	-	YES	2.39	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S11 (440-27512-11)_RE	Strontium-90	-0.005	0.026	0.046	0.117	MDC	-	-	-	-	-0.005	-	-	0.39	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis	Reanalysis	440-27512-1
10/23/2012	125727_B7S7 (440-27512-7)	Strontium-90	0.41	0.16	0.24	0.117	MDC	YES	YES	0.41	YES	-	-	YES	2.05	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S7 (440-27512-7)_RE	Strontium-90	-0.025	0.024	0.044	0.117	MDC	-	-	-	-	-0.025	-	-	0.38	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis	Reanalysis	440-27512-1
10/23/2012	125727_T1S3 (440-27510-3)	Strontium-90	0.03	0.15	0.25	0.117	MDC	-	-	-	-	0.03	-	YES	2.14	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T1S3 (440-27510-3)_RE	Strontium-90	0.013	0.027	0.046	0.117	MDC	-	-	-	-	0.013	-	-	0.39	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis	Reanalysis	440-27510-1
10/23/2012	125727_T2S2 (440-27510-2)	Strontium-90	0.36	0.17	0.26	0.117	MDC	YES	YES	0.36	YES	-	-	YES	2.22	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis		440-27510-1
10/23/2012																					

Boeing ISRA Soil Data, IEL-3 (pCi/g) Compared to LUT

Sampling Date	Sample Serial Number	Isotope	Activity	Error (+/-)	MDC	DTSC LUT	LUT Source	Activity > LUT ?	Activity > MDC ?	Detected Activity	Detected Activity > LUT ?	Non-detect Activity	Non-detect Activity > LUT ?	MDC > LUT ?	Ratio of MDC to LUT	Units	Error Type	Analysis Protocol	Analysis Organization	Comments	Document
10/23/2012	125727_T7S5 (440-27510-5)	Strontium-90	-0.007	0.21	0.35	0.117	MDC	-	-	-	-	-0.007	-	YES	2.99	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T7S5 (440-27510-5)_RE	Strontium-90	0.042	0.027	0.041	0.117	MDC	-	YES	0.042	-	-	-	-	0.35	pCi/g	2 sigma	HASL 300-SR-03-R	TA - St. Louis	Reanalysis	440-27510-1
10/22/2012	125727_2S2 (440-27479-2)	Thallium-208	0.413	0.055	0.027	1.07	BTV	-	YES	0.413	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S1 (440-27479-1)	Thallium-208	0.338	0.042	0.021	1.07	BTV	-	YES	0.338	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S3 (440-27479-3)	Thallium-208	0.399	0.06	0.039	1.07	BTV	-	YES	0.399	-	-	-	-	0.04	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_4S4 (440-27479-4)	Thallium-208	0.443	0.055	0.026	1.07	BTV	-	YES	0.443	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_5S10 (440-27479-10)	Thallium-208	0.296	0.041	0.024	1.07	BTV	-	YES	0.296	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S6 (440-27479-6)	Thallium-208	0.387	0.048	0.022	1.07	BTV	-	YES	0.387	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S8 (440-27479-8)	Thallium-208	0.368	0.047	0.024	1.07	BTV	-	YES	0.368	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S5 (440-27479-5)	Thallium-208	0.4	0.049	0.022	1.07	BTV	-	YES	0.4	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S7 (440-27479-7)	Thallium-208	0.324	0.047	0.028	1.07	BTV	-	YES	0.324	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S11 (440-27479-11)	Thallium-208	0.357	0.043	0.022	1.07	BTV	-	YES	0.357	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S9 (440-27479-9)	Thallium-208	0.382	0.059	0.041	1.07	BTV	-	YES	0.382	-	-	-	-	0.04	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27479-1
10/23/2012	125727_B1S1 (440-27512-1)	Thallium-208	0.428	0.056	0.027	1.07	BTV	-	YES	0.428	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B1S2 (440-27512-2)	Thallium-208	0.392	0.052	0.027	1.07	BTV	-	YES	0.392	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S3 (440-27512-3)	Thallium-208	0.447	0.061	0.031	1.07	BTV	-	YES	0.447	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S4 (440-27512-4)	Thallium-208	0.385	0.049	0.026	1.07	BTV	-	YES	0.385	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S6 (440-27512-6)	Thallium-208	0.369	0.05	0.027	1.07	BTV	-	YES	0.369	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S9 (440-27512-9)	Thallium-208	0.352	0.046	0.023	1.07	BTV	-	YES	0.352	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B4S5 (440-27512-5)	Thallium-208	0.504	0.06	0.022	1.07	BTV	-	YES	0.504	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S10 (440-27512-10)	Thallium-208	0.387	0.048	0.023	1.07	BTV	-	YES	0.387	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S8 (440-27512-8)	Thallium-208	0.375	0.051	0.027	1.07	BTV	-	YES	0.375	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S11 (440-27512-11)	Thallium-208	0.459	0.061	0.032	1.07	BTV	-	YES	0.459	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S7 (440-27512-7)	Thallium-208	0.491	0.062	0.029	1.07	BTV	-	YES	0.491	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_T1S3 (440-27510-3)	Thallium-208	0.416	0.054	0.025	1.07	BTV	-	YES	0.416	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T2S2 (440-27510-2)	Thallium-208	0.386	0.049	0.022	1.07	BTV	-	YES	0.386	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T3S1 (440-27510-1)	Thallium-208	0.41	0.059	0.037	1.07	BTV	-	YES	0.41	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T4S4 (440-27510-4)	Thallium-208	0.384	0.05	0.025	1.07	BTV	-	YES	0.384	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T5S6 (440-27510-6)	Thallium-208	0.387	0.051	0.027	1.07	BTV	-	YES	0.387	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T6S7 (440-27510-7)	Thallium-208	0.427	0.055	0.025	1.07	BTV	-	YES	0.427	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T7S5 (440-27510-5)	Thallium-208	0.41	0.054	0.026	1.07	BTV	-	YES	0.41	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-GA-01-R	TA - St. Louis		440-27510-1
10/22/2012	125727_2S2 (440-27479-2)	Tritium	0.11	0.15	0.24	8.59	MDC	-	-	-	-	0.11	-	-	0.03	pCi/g	2 sigma	906.0M	TA - St. Louis		440-27479-1
10/22/2012	125727_3S1 (440-27479-1)	Tritium	-0.1	0.11	0.23	8.59	MDC	-	-	-	-	-0.1	-	-	0.03	pCi/g	2 sigma	906.0M	TA - St. Louis		440-27479-1
10/22/2012	125727_3S3 (440-27479-3)	Tritium	0.19	0.16	0.25	8.59	MDC	-	-	-	-	0.19	-	-	0.03	pCi/g	2 sigma	906.0M	TA - St. Louis		440-27479-1
10/22/2012	125727_4S4 (440-27479-4)	Tritium	0.14	0.15	0.24	8.59	MDC	-	-	-	-	0.14	-	-	0.03	pCi/g	2 sigma	906.0M	TA - St. Louis		440-27479-1
10/22/2012	125727_5S10 (440-27479-10)	Tritium	-0.06	0.13	0.26	8.59	MDC	-	-	-	-	-0.06	-	-	0.03	pCi/g	2 sigma	906.0M	TA - St. Louis		440-27479-1
10/22/2012	125727_6S6 (440-27479-6)	Tritium	-0.14	0.1	0.25	8.59	MDC	-	-	-	-	-0.14	-	-	0.03	pCi/g	2 sigma	906.0M	TA - St. Louis		440-27479-1
10/22/2012	125727_6S8 (440-27479-8)	Tritium	-0.05	0.12	0.24	8.59	MDC	-	-	-	-	-0.05	-	-	0.03	pCi/g	2 sigma	906.0M	TA - St. Louis		440-27479-1
10/22/2012	125727_7S5 (440-27479-5)	Tritium	0.09	0.14	0.25	8.59	MDC	-	-	-	-	0.09	-	-	0.03	pCi/g	2 sigma	906.0M	TA - St. Louis		440-27479-1
10/22/2012	125727_7S7 (440-27479-7)	Tritium	0.02	0.14	0.25	8.59	MDC	-	-	-	-	0.02	-	-	0.03	pCi/g	2 sigma	906.0M	TA - St. Louis		440-27479-1
10/22/2012	125727_8S11 (440-27479-11)	Tritium	0.04	0.13	0.23	8.59	MDC	-	-	-	-	0.04	-	-	0.03	pCi/g	2 sigma	906.0M	TA - St. Louis		440-27479-1
10/22/2012	125727_8S9 (440-27479-9)	Tritium	0.009	0.13	0.25	8.59	MDC	-	-	-	-	0.009	-	-	0.03	pCi/g	2 sigma	906.0M	TA - St. Louis		440-27479-1
10/23/2012	125727_B1S1 (440-27512-1)	Tritium	0.056	0.09	0.15	8.59	MDC	-	-	-	-	0.056	-	-	0.02	pCi/g	2 sigma	906.0M	TA - St. Louis		440-27512-1
10/23/2012	125727_B1S2 (440-27512-2)	Tritium	0.21	0.13	0.15	8.59	MDC	-	YES	0.21	-	-	-	-	0.02	pCi/g	2 sigma	906.0M	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S3 (440-27512-3)	Tritium	0.17	0.12	0.17	8.59	MDC	-	-	-	-	0.17	-	-	0.02	pCi/g	2 sigma	906.0M	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S4 (440-27512-4)	Tritium	0.12	0.11	0.17	8.59	MDC	-	-	-	-	0.12	-	-	0.02	pCi/g	2 sigma	906.0M	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S6 (440-27512-6)	Tritium	0.18	0.12	0.15	8.59	MDC	-	YES	0.18	-	-	-	-	0.02	pCi/g	2 sigma	906.0M	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S9 (440-27512-9)	Tritium	-0.07	0.19	0.36	8.59	MDC	-	-	-	-	-0.07	-	-	0.04	pCi/g	2 sigma	906.0M	TA - St. Louis		440-27512-1
10/23/2012	125727_B4S5 (440-27512-5)	Tritium	0.18	0.12	0.16	8.59	MDC	-	YES	0.18	-	-	-	-	0.02	pCi/g	2 sigma	906.0M	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S10 (440-27512-10)	Tritium	-0.17	0.18	0.36	8.59	MDC	-	-	-	-	-0.17	-	-	0.04	pCi/g	2 sigma	906.0M	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S8 (440-27512-8)	Tritium	-0.17	0.19	0.37	8.59	MDC	-	-	-	-	-0.17	-	-	0.04	pCi/g	2 sigma	906.0M	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S11 (440-27512-11)	Tritium	-0.13	0.19	0.38	8.59	MDC	-	-	-	-	-0.13	-	-							

Boeing ISRA Soil Data, IEL-3 (pCi/g) Compared to LUT

Sampling Date	Sample Serial Number	Isotope	Activity	Error (+/-)	MDC	DTSC LUT	LUT Source	Activity > LUT ?	Activity > MDC ?	Detected Activity	Detected Activity > LUT ?	Non-detect Activity	Non-detect Activity > LUT ?	MDC > LUT ?	Ratio of MDC to LUT	Units	Error Type	Analysis Protocol	Analysis Organization	Comments	Document
10/22/2012	125727_5S10 (440-27479-10)	Uranium-234	0.6	0.12	0.02	2.18	BTV	-	YES	0.6	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S6 (440-27479-6)	Uranium-234	0.75	0.14	0.03	2.18	BTV	-	YES	0.75	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S8 (440-27479-8)	Uranium-234	0.8	0.15	0.04	2.18	BTV	-	YES	0.8	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S5 (440-27479-5)	Uranium-234	0.69	0.12	0.02	2.18	BTV	-	YES	0.69	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S7 (440-27479-7)	Uranium-234	0.298	0.08	0.036	2.18	BTV	-	YES	0.298	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S11 (440-27479-11)	Uranium-234	0.339	0.083	0.02	2.18	BTV	-	YES	0.339	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S9 (440-27479-9)	Uranium-234	1.01	0.17	0.03	2.18	BTV	-	YES	1.01	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27479-1
10/23/2012	125727_B1S1 (440-27512-1)	Uranium-234	0.73	0.14	0.04	2.18	BTV	-	YES	0.73	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B1S2 (440-27512-2)	Uranium-234	1.2	0.19	0.03	2.18	BTV	-	YES	1.2	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S3 (440-27512-3)	Uranium-234	0.76	0.14	0.03	2.18	BTV	-	YES	0.76	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S4 (440-27512-4)	Uranium-234	0.67	0.13	0.03	2.18	BTV	-	YES	0.67	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S6 (440-27512-6)	Uranium-234	0.91	0.17	0.04	2.18	BTV	-	YES	0.91	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S9 (440-27512-9)	Uranium-234	0.76	0.14	0.03	2.18	BTV	-	YES	0.76	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B4S5 (440-27512-5)	Uranium-234	0.86	0.16	0.04	2.18	BTV	-	YES	0.86	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S10 (440-27512-10)	Uranium-234	0.8	0.15	0.02	2.18	BTV	-	YES	0.8	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S8 (440-27512-8)	Uranium-234	0.75	0.13	0.01	2.18	BTV	-	YES	0.75	-	-	-	-	0.00	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S11 (440-27512-11)	Uranium-234	0.87	0.16	0.03	2.18	BTV	-	YES	0.87	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S7 (440-27512-7)	Uranium-234	1.01	0.17	0.03	2.18	BTV	-	YES	1.01	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_T1S3 (440-27510-3)	Uranium-234	0.98	0.17	0.03	2.18	BTV	-	YES	0.98	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T2S2 (440-27510-2)	Uranium-234	0.86	0.15	0.03	2.18	BTV	-	YES	0.86	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T3S1 (440-27510-1)	Uranium-234	0.77	0.14	0.03	2.18	BTV	-	YES	0.77	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T4S4 (440-27510-4)	Uranium-234	0.62	0.14	0.04	2.18	BTV	-	YES	0.62	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T5S6 (440-27510-6)	Uranium-234	0.6	0.13	0.03	2.18	BTV	-	YES	0.6	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T6S7 (440-27510-7)	Uranium-234	0.94	0.18	0.04	2.18	BTV	-	YES	0.94	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T7S5 (440-27510-5)	Uranium-234	0.5	0.11	0.03	2.18	BTV	-	YES	0.5	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27510-1
10/22/2012	125727_2S2 (440-27479-2)	Uranium-235	0.166	0.064	0.033	0.152	BTV	YES	YES	0.166	YES	-	-	-	0.22	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_2S2 (440-27479-2)_RE	Uranium-235	0.054	0.048	0.029	0.152	BTV	-	YES	0.054	-	-	-	-	0.19	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis	Reanalysis	440-27479-1
10/22/2012	125727_3S1 (440-27479-1)	Uranium-235	0.021	0.026	0.038	0.152	BTV	-	-	-	-	0.021	-	-	0.25	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_3S3 (440-27479-3)	Uranium-235	0.049	0.035	0.031	0.152	BTV	-	YES	0.049	-	-	-	-	0.20	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_4S4 (440-27479-4)	Uranium-235	0.065	0.042	0.033	0.152	BTV	-	YES	0.065	-	-	-	-	0.22	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_5S10 (440-27479-10)	Uranium-235	0.057	0.038	0.017	0.152	BTV	-	YES	0.057	-	-	-	-	0.11	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S6 (440-27479-6)	Uranium-235	0.039	0.032	0.018	0.152	BTV	-	YES	0.039	-	-	-	-	0.12	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_6S8 (440-27479-8)	Uranium-235	0.016	0.025	0.041	0.152	BTV	-	-	-	-	0.016	-	-	0.27	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S5 (440-27479-5)	Uranium-235	0.044	0.031	0.015	0.152	BTV	-	YES	0.044	-	-	-	-	0.10	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_7S7 (440-27479-7)	Uranium-235	0.016	0.024	0.04	0.152	BTV	-	-	-	-	0.016	-	-	0.26	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S11 (440-27479-11)	Uranium-235	0.021	0.022	0.025	0.152	BTV	-	-	-	-	0.021	-	-	0.16	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S9 (440-27479-9)	Uranium-235	0.037	0.031	0.017	0.152	BTV	-	YES	0.037	-	-	-	-	0.11	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27479-1
10/23/2012	125727_B1S1 (440-27512-1)	Uranium-235	0.024	0.028	0.037	0.152	BTV	-	-	-	-	0.024	-	-	0.24	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B1S2 (440-27512-2)	Uranium-235	0.058	0.04	0.03	0.152	BTV	-	YES	0.058	-	-	-	-	0.20	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S3 (440-27512-3)	Uranium-235	0.046	0.035	0.033	0.152	BTV	-	YES	0.046	-	-	-	-	0.22	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S4 (440-27512-4)	Uranium-235	0.04	0.033	0.018	0.152	BTV	-	YES	0.04	-	-	-	-	0.12	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S6 (440-27512-6)	Uranium-235	0.137	0.069	0.044	0.152	BTV	-	YES	0.137	-	-	-	-	0.29	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S9 (440-27512-9)	Uranium-235	0.026	0.026	0.017	0.152	BTV	-	YES	0.026	-	-	-	-	0.11	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B4S5 (440-27512-5)	Uranium-235	0.04	0.034	0.031	0.152	BTV	-	YES	0.04	-	-	-	-	0.20	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S10 (440-27512-10)	Uranium-235	0.014	0.019	0.018	0.152	BTV	-	-	-	-	0.014	-	-	0.12	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S8 (440-27512-8)	Uranium-235	0.059	0.035	0.013	0.152	BTV	-	YES	0.059	-	-	-	-	0.09	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S11 (440-27512-11)	Uranium-235	0.053	0.042	0.035	0.152	BTV	-	YES	0.053	-	-	-	-	0.23	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S7 (440-27512-7)	Uranium-235	0.049	0.037	0.019	0.152	BTV	-	YES	0.049	-	-	-	-	0.13	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_T1S3 (440-27510-3)	Uranium-235	0.031	0.031	0.036	0.152	BTV	-	-	-	-	0.031	-	-	0.24	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T2S2 (440-27510-2)	Uranium-235	0.03	0.03	0.036	0.152	BTV	-	-	-	-	0.03	-	-	0.24	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T3S1 (440-27510-1)	Uranium-235	0.083	0.048	0.03	0.152	BTV	-	YES	0.083	-	-	-	-	0.20	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T4S4 (440-27510-4)	Uranium-235	0.064	0.047	0.037	0.152	BTV	-	YES	0.064	-	-	-	-	0.24	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T5S6 (440-27510-6)	Uranium-235	0.021	0.025	0.019	0.152	BTV	-	YES	0.021	-	-	-	-	0.13	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T6S7 (440-27510-7)	Uranium-235	-0.006	0.022	0.067	0.152	BTV	-	-	-	-	-0.006	-	-	0.44	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T7S5 (440-27510-5)	Uranium-235	0.026	0.027	0.031	0.152	BTV	-	-	-	-	0.026	-	-	0.20	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27510-1
10/22/2012	125727_2S2 (440-27479-2)	Uranium-238	2.76	0.32	0.03	1.96	BTV	YES	YES	2.76	YES	-	-	-	0.02	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_2S2 (440-27479-2)_RE	Uranium-238	0.69	0.17	0.06	1.96	BTV	-	YES	0.69	-	-	-	-	0.03	pCi/g	2 sigma				

Boeing ISRA Soil Data, IEL-3 (pCi/g) Compared to LUT

Sampling Date	Sample Serial Number	Isotope	Activity	Error (+/-)	MDC	DTSC LUT	LUT Source	Activity > LUT ?	Activity > MDC ?	Detected Activity	Detected Activity > LUT ?	Non-detect Activity	Non-detect Activity > LUT ?	MDC > LUT ?	Ratio of MDC to LUT	Units	Error Type	Analysis Protocol	Analysis Organization	Comments	Document
10/22/2012	125727_8S11 (440-27479-11)	Uranium-238	0.298	0.077	0.023	1.96	BTV	-	YES	0.298	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27479-1
10/22/2012	125727_8S9 (440-27479-9)	Uranium-238	0.96	0.16	0.02	1.96	BTV	-	YES	0.96	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27479-1
10/23/2012	125727_B1S1 (440-27512-1)	Uranium-238	0.64	0.13	0.03	1.96	BTV	-	YES	0.64	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B1S2 (440-27512-2)	Uranium-238	1.46	0.21	0.03	1.96	BTV	-	YES	1.46	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S3 (440-27512-3)	Uranium-238	0.65	0.13	0.04	1.96	BTV	-	YES	0.65	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B2S4 (440-27512-4)	Uranium-238	0.73	0.14	0.01	1.96	BTV	-	YES	0.73	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S6 (440-27512-6)	Uranium-238	0.98	0.18	0.04	1.96	BTV	-	YES	0.98	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B3S9 (440-27512-9)	Uranium-238	0.81	0.15	0.03	1.96	BTV	-	YES	0.81	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B4S5 (440-27512-5)	Uranium-238	0.91	0.16	0.02	1.96	BTV	-	YES	0.91	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S10 (440-27512-10)	Uranium-238	0.81	0.15	0.02	1.96	BTV	-	YES	0.81	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B5S8 (440-27512-8)	Uranium-238	0.7	0.12	0.02	1.96	BTV	-	YES	0.7	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S11 (440-27512-11)	Uranium-238	0.94	0.17	0.04	1.96	BTV	-	YES	0.94	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_B7S7 (440-27512-7)	Uranium-238	0.87	0.16	0.02	1.96	BTV	-	YES	0.87	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27512-1
10/23/2012	125727_T1S3 (440-27510-3)	Uranium-238	0.78	0.15	0.03	1.96	BTV	-	YES	0.78	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T2S2 (440-27510-2)	Uranium-238	0.98	0.17	0.02	1.96	BTV	-	YES	0.98	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T3S1 (440-27510-1)	Uranium-238	0.71	0.14	0.01	1.96	BTV	-	YES	0.71	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T4S4 (440-27510-4)	Uranium-238	0.72	0.15	0.04	1.96	BTV	-	YES	0.72	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T5S6 (440-27510-6)	Uranium-238	0.61	0.13	0.02	1.96	BTV	-	YES	0.61	-	-	-	-	0.01	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T6S7 (440-27510-7)	Uranium-238	0.86	0.17	0.06	1.96	BTV	-	YES	0.86	-	-	-	-	0.03	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27510-1
10/23/2012	125727_T7S5 (440-27510-5)	Uranium-238	0.5	0.11	0.03	1.96	BTV	-	YES	0.5	-	-	-	-	0.02	pCi/g	2 sigma	HASL 300-A-01-R	TA - St. Louis		440-27510-1

Appendix 3
Laboratory Report for Batch 440-27479

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-27479-1

Client Project/Site: 125727 B/1300 ISRA SHL SOIL WC

Revision: 7

For:

The Boeing Company

5800 Woolsey Canyon Road

Canoga Park, California 91304-1148

Attn: Tom Venable



Authorized for release by:

8/7/2013 7:39:37 PM

Debby Wilson, Project Manager I

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Designee for

Heather Clark, Project Manager I

heather.clark@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

10

11

12

13

14



Table of Contents

Cover Page	1
Table of Contents	2
Sample Summary	3
Case Narrative	4
Client Sample Results	9
Method Summary	45
Chronicle	46
QC Sample Results	54
QC Association	75
Definitions	83
Certification Summary	84
Chain of Custody	85
Receipt Checklists	86
Tracer Carrier Summary	87

Sample Summary

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-27479-1	125727_3S1	Solid	10/22/12 13:20	10/22/12 19:25
440-27479-2	125727_2S2	Solid	10/22/12 14:10	10/22/12 19:25
440-27479-3	125727_3S3	Solid	10/22/12 13:26	10/22/12 19:25
440-27479-4	125727_4S4	Solid	10/22/12 14:30	10/22/12 19:25
440-27479-5	125727_7S5	Solid	10/22/12 14:35	10/22/12 19:25
440-27479-6	125727_6S6	Solid	10/22/12 14:05	10/22/12 19:25
440-27479-7	125727_7S7	Solid	10/22/12 15:19	10/22/12 19:25
440-27479-8	125727_6S8	Solid	10/22/12 14:20	10/22/12 19:25
440-27479-9	125727_8S9	Solid	10/22/12 15:01	10/22/12 19:25
440-27479-10	125727_5S10	Solid	10/22/12 13:53	10/22/12 19:25
440-27479-11	125727_8S11	Solid	10/22/12 15:09	10/22/12 19:25



Case Narrative

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Job ID: 440-27479-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative 440-27479-1

Comments

06/18/13: The samples for Gamma Spec were re-processed using the SSFL Gamma library and one sample for Isotopic Uranium was re-analyzed. The EDD, report, and case narrative have been revised.

Receipt

The samples were received on 10/22/2012 7:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.5° C.

GC/MS VOA

Method(s) 8260B: The continuing calibration verification (CCV) for Carbon Tetrachloride, Dichlorobromomethane associated with batch 61858 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 8260B: The laboratory control sample (LCS) for batch 61858 exceeded control limits for the following analytes: Carbon Tetrachloride, 1,1,1,2-Tetrachloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The following samples were diluted due to the nature of the sample matrix: 125727_2S2 (440-27479-2), 125727_3S1 (440-27479-1), 125727_3S3 (440-27479-3), 125727_4S4 (440-27479-4), 125727_5S10 (440-27479-10), 125727_6S6 (440-27479-6), 125727_6S8 (440-27479-8), 125727_7S7 (440-27479-7), 125727_8S9 (440-27479-9). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The continuing calibration verification (CCV) for Carbon tetrachloride and Dichlorobromomethane associated with batch 61977 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 61977 exceeded control limits for the following analytes: 1,1,1,2-Tetrachloroethane, Carbon tetrachloride and trans-1,3-Dichloropropene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 61977 were outside control limits.

Method(s) 8260B: The following sample(s) was diluted due to the nature of the sample matrix: 125727_7S5 (440-27479-5), 125727_8S11 (440-27479-11). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Observations/Nonconformances

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

Isotopic Uranium by Alpha Spectroscopy (EML A-01-R MOD)

Batch: 3157025

The sample was re-extracted and re-analyzed at the client's request. The results of the re-analysis are less than the original reported results.

Affected Samples:

F2J260434 (2): 125727_2S2 (440-27479-2)

Strontium-90 by GFPC (EML SR-03-RC MOD)

Since Sr-89 is not expected to be present in the samples, the total strontium results are assumed to be equivalent to Sr-90 results. The summary forms will list the total strontium results. The total strontium results will be listed as Sr-90 in the EDD.

Case Narrative

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Job ID: 440-27479-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

Batch: 2304048

The Strontium carrier recovery is outside the lower control limit (40%). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference. Strontium was non-detected in the samples. Results are provided with this narrative.

A gel formed after the samples were digested. The samples were centrifuged to remove gel and loaded onto the columns.

The reporting limit was not met. Samples were counted for the maximum time of 1000 minutes.

Affected Samples:

F2J260434 (1): 125727_3S1 (440-27479-1)
F2J260434 (2): 125727_2S2 (440-27479-2)
F2J260434 (3): 125727_3S3 (440-27479-3)
F2J260434 (4): 125727_4S4 (440-27479-4)
F2J260434 (5): 125727_7S5 (440-27479-5)
F2J260434 (7): 125727_7S7 (440-27479-7)
F2J260434 (8): 125727_6S8 (440-27479-8)
F2J260434 (9): 125727_8S9 (440-27479-9)
F2J260434 (10): 125727_5S10 (440-27479-10)

Batch: 2338037

The carrier recovery is outside the lower control limit 40% (17.11%, 18.25%, 18.23%, 17.74%) in batch 2304048. The samples were sent to re-extract.

The LCS analyte recovery in batch 2331075 is outside the lower QC limit, indicating a potential negative bias for the analyte. Samples must be re-prepared and re-analyzed outside holding time. The samples went to re-extract for the second time and are reported in batch 2338037.

The reporting limit for Total Strontium was not met. The samples were counted for the maximum amount of time. The results are reported with the MDA achieved.

The LCS carrier recovery is outside acceptance limits of 40-110% (39.21%). LCS spike recoveries are within QC limits demonstrating acceptable sample preparation and instrument performance. There is an apparent anomaly in the sample preparation, isolated to the LCS and not indicative of the batch. No further action is required.

Affected Samples:

F2J260434 (6): 125727_6S6 (440-27479-6)
F2J260434 (11): 125727_8S11 (440-27479-11)

Gamma Spectroscopy-Radium-226 & Hits (EML GA-01-R MOD)

Batch: 2340023

Radium-226 is reported in these samples at the client's request. Radium-226 is reported from the 609.31 keV line of Bismuth-214. Because the samples have not had a 21-day ingrowth, the activity for Radium-226 is an estimated value and may be biased low. This bias is caused by the disruption of secular equilibrium between Radium-226 and Bismuth-214 by the loss of Radon-222 during sample preparation.

Lead-214 analyzed by gamma spectroscopy was detected above the MDA in the method blank. Variations in Compton backgrounds and statistical analyses allow for small area counts in the ROIs of this nuclide. Other Uranium decay chain products are not present in the blank to support Lead-214 identification. The data is reported.

Nuclide: 227Ac Energy: 236.0, 265.3 Photon Abundance: 0.1105, 0.0671

Actinium-227 does not emit any gamma photons useful for quantification. However, it can be assumed to be in secular equilibrium with the short-lived 227Th daughter product, with consideration for the 98.62% branching ratio for that decay scheme. Therefore, the

Case Narrative

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Job ID: 440-27479-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

activity for 227Ac is determined from the 227Th gamma emissions, using the 21.8 year half-life of 227Ac.

Nuclide: 228Ac, 228Ra Energy: various Photon Abundance: various

Actinium-228 can be assumed to be in secular equilibrium with the 228Ra parent.

Activity values for 228Ac are calculated using the half-life, $t_{1/2}=5.75$ years, of the long-lived 228Ra parent. If the requested analysis involves the quantification of both 228Ac and 228Ra, the reported results for each nuclide will be identical. The quantification will be obtained from the measurement of the observed 228Ac photo-peaks with emission energies of 338.40, 911.07, and 968.90 keV.

Nuclide: 212Bi, 212Pb, 208Tl Energy: various Photon Abundance: various

All activity values for 212Bi, 212Pb, and 208Tl are calculated using the half-life, $t_{1/2}=1.91$ years, of the long-lived 228Th parent. It is assumed that secular equilibrium is achieved between the 228Th parent and the 212Bi, and 212Pb progeny, as well as the 208Tl progeny, after consideration of the 35.9% branching ratio for that decay scheme.

Nuclide: 134Cs Energy: 604.66 Photon Abundance: 0.9762

Cesium-134 suffers from coincidence summing, due to the multiple simultaneous photon emissions during each decay event. This results in a potentially low bias in the final analytical results. The magnitude of this low bias is highly dependent on the 134Cs activity levels and the specific counting geometry. Any 134Cs activity reported above the associated Minimum Detectable Concentration (MDC) should be considered to have a potential low bias.

The most abundant gamma emission specified for quantification of this nuclide suffers from possible resolution interference due to the 124Sb gamma emission occurring at 602.71 keV (0.9826, abundance). Therefore, a possibility of a high bias to the 134Cs results may occur in the presence of elevated 124Sb activity.

Other gamma emissions used for quantification of this nuclide suffer from possible resolution interference due to multiple gamma emissions of 228Ac. Therefore, a possible high bias to the 134Cs activity results may occur in the presence of elevated 228Ac activity.

Nuclide: 137Cs Energy: 661.62 keV Photon Abundance: 0.8512

Cesium-137 does not emit any gamma photons useful for quantification. However, it can be assumed to be in secular equilibrium with its short-lived 137mBa daughter, with consideration for the 94.6% branching ratio for that decay scheme. The calculated gamma photon abundance used in the library is the product of the 0.8998 abundance of the 661.62 keV 137mBa photon and the 0.946 branching ratio.

Nuclide: 152Eu Energy: 1408.1 Photon Abundance: 0.2121

The primary gamma emission useful for quantification of this nuclide suffers from possible interference due to the 214Bi gamma emission occurring at 1408.0 keV (0.0248, abundance). Therefore, 152Eu results may be biased high in the presence of elevated 214Bi activity.

Nuclide: 155Eu Energy: 105.31 Photon Abundance: 0.2180

The gamma emission useful for quantification of this nuclide suffers from possible resolution interference due to the 235U gamma emission occurring at 105 keV (0.0210, abundance). Therefore, a possibility of a high bias to the 155Eu results may occur in the presence of elevated 235U activity.

Europium-155 also emits gamma photons at 86.47 keV, however this emission energy is subject to significant Pb x-ray interference and is therefore excluded from the library.

Nuclide: 125Sb Energy: 600.8 Photon Abundance: 0.1786

The 600.8 keV gamma emission specified for this nuclide suffers from possible resolution interference from the 124Sb gamma emission occurring at 602.71 keV (0.9826, abundance). Therefore, this photo-peak will be used as an identifier only and not in the activity calculations for this nuclide.

Nuclide: 22Na Energy: 1274.5 Photon Abundance: 0.9994

The 1274.5 keV photo-peak used to quantify 22Na suffers from positive interference in the presence of 154Eu, which emits a 1274.8 keV gamma photon with an abundance factor of 0.355. There are no other gamma emissions useful for quantifying 22Na. In the presence in the absence of 154Eu activity above the detection limit, 22Na results above the detection limit should be flagged as an estimated value.

Affected Samples:

Case Narrative

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Job ID: 440-27479-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

F2J260434 (1): 125727_3S1 (440-27479-1)
F2J260434 (2): 125727_2S2 (440-27479-2)
F2J260434 (3): 125727_3S3 (440-27479-3)
F2J260434 (4): 125727_4S4 (440-27479-4)
F2J260434 (5): 125727_7S5 (440-27479-5)
F2J260434 (6): 125727_6S6 (440-27479-6)
F2J260434 (7): 125727_7S7 (440-27479-7)
F2J260434 (8): 125727_6S8 (440-27479-8)
F2J260434 (9): 125727_8S9 (440-27479-9)
F2J260434 (10): 125727_5S10 (440-27479-10)
F2J260434 (11): 125727_8S11 (440-27479-11)

Additional Case Narrative added 07/17/13:

The laboratory utilized a site-specific (and EPA approved) library to process the data, which defines the isotopes to report along with the energy lines and abundance values. While attempting to reduce the incidence of spectral interferences, this library is still known to generate high bias/false positive results for certain nuclides in the presence of elevated levels of naturally occurring isotopes.

The following two nuclides exhibited interference in many of the samples:

Eu-155 - There are two main photons associated with this decay (21.8% @ 105.3 keV, ~31% @ 86.5 keV). Both are subject to interferences - 105 keV due to U-235 and 86.5 keV due to Lead, Radium, and Actinium x-rays. The SSFL library utilizes the 105.3 keV photon, resulting in a high bias or false positive when U-235 is present. Presence of Eu-155 is expected by the client to be accompanied by the presence of Eu-152 and/or Eu-154. Given the lack of detection of these nuclides along with the apparent interference from U-235, the laboratory does not believe Eu-155 to be present in these samples.

Sb-125 - The library peaks for this nuclide are 176.3 keV (7.3%), 428.0 keV (29.6%), 463.5 keV (10%), 600.8 keV (18.4%), and 636.2 keV (11.2%). The 4.4% abundant Ac-228 peak at 463.0 keV is often assigned by the software to be the 463.5 keV peak of Sb-125. And, while the most abundant Sb-125 (29.6% @ 428.0 keV) is not seen above the sample-specific MDC in the spectra, the inclusion of the 463 keV interference peak in the weighted average results in a high bias or false positive. The laboratory does not believe Sb-125 to be present in these samples.

-001: Eu-155, Sb-125 - see above

-002: Eu-155, Sb-125 - see above

-003: Sb-125 - see above

-004: Sb-125 - see above

-005: Sb-125 - see above

-006: Cs-134: For sample 125727-6S6 (440-27479-6), the most abundant peak at 604.7 keV was "found" with a resolution (FWHM) of 0.34 keV (well below the expected 1.2 - 1.4 keV FWHM). The software indicates this on the raw data with a "flag", but still utilizes the apparently anomalous result, along with a lesser abundant peak with high relative uncertainty. The laboratory suspects that Cs-134 is not present in this sample, and this is supported by the lack of Cs-137 and the client's expectations based upon process knowledge.

Eu-155, Sb-125 - See above.

-007: Sb-125 - see above

-008: Eu-155 - see above

-009: Cs-134 - For sample 125727-8S9 (440-27479-9), the 604.7 peak is assigned based upon a peak identified 3-4 keV from the known energy. The laboratory does not believe Cs-134 to be present in this sample.

Eu-155, Sb-125 - see above

-010: Sb-125 - see above

-011: Eu-155, Sb-125 - see above

Case Narrative

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Job ID: 440-27479-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

Additional Case Narrative added 8/7/13:

In the reprocessing of the data, the Ac-227 result for sample 125727-4S4 (440-2749-4) went from 0.101 pCi/g (below MDC) to 0.421 pCi/g (above MDC). This appears to be due to the software assigning a peak at 233.11 keV to be the 236.0 keV peak. It is suspected this peak may actually be Tl-208 at 233.36 keV. This peak energy difference, nearly 3 keV, seems to be outside that which should be utilized. However, the laboratory cannot practically adjust each spectrum to correct for such apparent miss-application. The laboratory does not believe Ac-227 to be present in the sample



Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_3S1

Lab Sample ID: 440-27479-1

Date Collected: 10/22/12 13:20

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		10	2.5	ug/Kg			10/26/12 01:10	1
Styrene	ND		10	2.9	ug/Kg			10/26/12 01:10	1
cis-1,3-Dichloropropene	ND		10	2.2	ug/Kg			10/26/12 01:10	1
trans-1,3-Dichloropropene	ND		10	3.1	ug/Kg			10/26/12 01:10	1
N-Propylbenzene	ND		10	3.1	ug/Kg			10/26/12 01:10	1
n-Butylbenzene	ND		25	3.6	ug/Kg			10/26/12 01:10	1
4-Chlorotoluene	ND		25	3.7	ug/Kg			10/26/12 01:10	1
1,4-Dichlorobenzene	ND		10	4.7	ug/Kg			10/26/12 01:10	1
1,2-Dibromoethane (EDB)	ND		10	4.0	ug/Kg			10/26/12 01:10	1
1,2-Dichloroethane	ND		10	4.0	ug/Kg			10/26/12 01:10	1
4-Methyl-2-pentanone (MIBK)	ND		25	23	ug/Kg			10/26/12 01:10	1
1,3,5-Trimethylbenzene	ND		10	3.2	ug/Kg			10/26/12 01:10	1
Bromobenzene	ND		25	4.2	ug/Kg			10/26/12 01:10	1
Toluene	ND		10	2.5	ug/Kg			10/26/12 01:10	1
Chlorobenzene	ND		10	2.6	ug/Kg			10/26/12 01:10	1
1,2,4-Trichlorobenzene	ND		25	5.1	ug/Kg			10/26/12 01:10	1
Dibromochloromethane	ND		10	3.5	ug/Kg			10/26/12 01:10	1
Tetrachloroethene	ND		10	2.5	ug/Kg			10/26/12 01:10	1
sec-Butylbenzene	ND		25	3.4	ug/Kg			10/26/12 01:10	1
m,p-Xylene	ND		10	4.0	ug/Kg			10/26/12 01:10	1
1,3-Dichloropropane	ND		10	3.2	ug/Kg			10/26/12 01:10	1
cis-1,2-Dichloroethene	ND		10	4.2	ug/Kg			10/26/12 01:10	1
trans-1,2-Dichloroethene	ND		10	3.5	ug/Kg			10/26/12 01:10	1
Methyl-t-Butyl Ether (MTBE)	ND		25	5.1	ug/Kg			10/26/12 01:10	1
1,3-Dichlorobenzene	ND		10	4.2	ug/Kg			10/26/12 01:10	1
Carbon tetrachloride	ND *		25	2.5	ug/Kg			10/26/12 01:10	1
1,1-Dichloropropene	ND		10	2.0	ug/Kg			10/26/12 01:10	1
2-Hexanone	ND		130	46	ug/Kg			10/26/12 01:10	1
2,2-Dichloropropane	ND		10	3.0	ug/Kg			10/26/12 01:10	1
1,1,1,2-Tetrachloroethane	ND *		25	2.9	ug/Kg			10/26/12 01:10	1
Acetone	ND		51	40	ug/Kg			10/26/12 01:10	1
Chloroform	ND		10	2.5	ug/Kg			10/26/12 01:10	1
Benzene	ND		10	2.5	ug/Kg			10/26/12 01:10	1
1,1,1-Trichloroethane	ND		10	3.5	ug/Kg			10/26/12 01:10	1
Bromomethane	ND		25	4.6	ug/Kg			10/26/12 01:10	1
Chloromethane	ND		25	5.1	ug/Kg			10/26/12 01:10	1
Dibromomethane	ND		10	4.5	ug/Kg			10/26/12 01:10	1
Bromochloromethane	ND		25	4.5	ug/Kg			10/26/12 01:10	1
Chloroethane	ND		25	7.6	ug/Kg			10/26/12 01:10	1
Vinyl chloride	ND		25	4.6	ug/Kg			10/26/12 01:10	1
Methylene Chloride	ND		100	33	ug/Kg			10/26/12 01:10	1
Carbon disulfide	ND		25	4.9	ug/Kg			10/26/12 01:10	1
Bromoform	ND		25	4.0	ug/Kg			10/26/12 01:10	1
Bromodichloromethane	ND		10	2.5	ug/Kg			10/26/12 01:10	1
1,1-Dichloroethane	ND		10	2.5	ug/Kg			10/26/12 01:10	1
1,1-Dichloroethene	ND		25	3.0	ug/Kg			10/26/12 01:10	1
Trichlorofluoromethane	ND		25	2.7	ug/Kg			10/26/12 01:10	1
Dichlorodifluoromethane	ND		25	7.6	ug/Kg			10/26/12 01:10	1
1,2-Dichloropropane	ND		10	4.0	ug/Kg			10/26/12 01:10	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_3S1

Lab Sample ID: 440-27479-1

Date Collected: 10/22/12 13:20

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		51	30	ug/Kg			10/26/12 01:10	1
1,1,2-Trichloroethane	ND		10	4.4	ug/Kg			10/26/12 01:10	1
Trichloroethene	ND		10	2.5	ug/Kg			10/26/12 01:10	1
1,1,2,2-Tetrachloroethane	ND		10	4.3	ug/Kg			10/26/12 01:10	1
1,2,3-Trichlorobenzene	ND		25	5.1	ug/Kg			10/26/12 01:10	1
Hexachlorobutadiene	ND		25	4.0	ug/Kg			10/26/12 01:10	1
Naphthalene	ND		25	5.6	ug/Kg			10/26/12 01:10	1
o-Xylene	ND		10	2.5	ug/Kg			10/26/12 01:10	1
2-Chlorotoluene	ND		25	4.4	ug/Kg			10/26/12 01:10	1
1,2-Dichlorobenzene	ND		10	4.8	ug/Kg			10/26/12 01:10	1
1,2,4-Trimethylbenzene	ND		10	3.9	ug/Kg			10/26/12 01:10	1
1,2-Dibromo-3-Chloropropane	ND		25	7.6	ug/Kg			10/26/12 01:10	1
1,2,3-Trichloropropane	ND		51	5.1	ug/Kg			10/26/12 01:10	1
tert-Butylbenzene	ND		25	3.1	ug/Kg			10/26/12 01:10	1
Isopropylbenzene	ND		10	2.7	ug/Kg			10/26/12 01:10	1
p-Isopropyltoluene	ND		10	3.6	ug/Kg			10/26/12 01:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	109		80 - 120					10/26/12 01:10	1
4-Bromofluorobenzene (Surr)	104		80 - 120					10/26/12 01:10	1
Dibromofluoromethane (Surr)	116		80 - 125					10/26/12 01:10	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		10/25/12 06:56	10/25/12 22:06	1
Aroclor 1221	ND		50	12	ug/Kg		10/25/12 06:56	10/25/12 22:06	1
Aroclor 1232	ND		50	12	ug/Kg		10/25/12 06:56	10/25/12 22:06	1
Aroclor 1242	ND		50	12	ug/Kg		10/25/12 06:56	10/25/12 22:06	1
Aroclor 1248	ND		50	12	ug/Kg		10/25/12 06:56	10/25/12 22:06	1
Aroclor 1254	ND		50	12	ug/Kg		10/25/12 06:56	10/25/12 22:06	1
Aroclor 1260	ND		50	12	ug/Kg		10/25/12 06:56	10/25/12 22:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	79		45 - 120				10/25/12 06:56	10/25/12 22:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.4	J	10	1.2	mg/Kg		10/25/12 11:13	10/26/12 19:03	5
Arsenic	12		2.0	0.82	mg/Kg		10/25/12 11:13	10/26/12 19:03	5
Barium	63		1.0	0.81	mg/Kg		10/25/12 11:13	10/26/12 19:03	5
Beryllium	0.49	J	0.51	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:03	5
Cadmium	0.28	J	0.51	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:03	5
Chromium	15		1.0	0.30	mg/Kg		10/25/12 11:13	10/26/12 19:03	5
Cobalt	3.8		1.0	0.30	mg/Kg		10/25/12 11:13	10/26/12 19:03	5
Copper	9.8		2.0	0.39	mg/Kg		10/25/12 11:13	10/26/12 19:03	5
Lead	18		2.0	0.51	mg/Kg		10/25/12 11:13	10/26/12 19:03	5
Molybdenum	1.4	J	2.0	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:03	5
Nickel	9.4		2.0	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:03	5
Selenium	ND		2.0	1.0	mg/Kg		10/25/12 11:13	10/26/12 19:03	5
Thallium	ND		10	0.81	mg/Kg		10/25/12 11:13	10/26/12 19:03	5

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_3S1

Lab Sample ID: 440-27479-1

Date Collected: 10/22/12 13:20

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	27		1.0	0.30	mg/Kg		10/25/12 11:13	10/26/12 19:03	5
Zinc	310		5.1	0.51	mg/Kg		10/25/12 11:13	10/26/12 19:03	5
Silver	ND		1.0	0.81	mg/Kg		10/25/12 11:13	10/26/12 19:03	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040	^	0.020	0.012	mg/Kg		10/28/12 15:40	10/29/12 14:58	1

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Tritium	-0.10	U	0.11	0.11	0.23	pCi/g	12/05/12 00:00	12/05/12 12:36	1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Uranium 234	0.71		0.12	0.14	0.03	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Uranium 235/236	0.021		0.026	0.026	0.038	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Uranium 238	0.83		0.13	0.15	0.03	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Tracer	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Uranium-232	66		30 - 110				11/09/12 00:00	11/13/12 20:19	1

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Actinium 228	1.05		0.06	0.12	0.10	pCi/g	12/05/12 00:00	12/05/12 11:50	1
Antimony 125	0.092	J	0.022	0.024	0.058	pCi/g	12/05/12 00:00	12/05/12 11:50	1
Bismuth 212	0.70	J	0.18	0.19	0.17	pCi/g	12/05/12 00:00	12/05/12 11:50	1
Bismuth 214	0.693	J	0.052	0.089	0.045	pCi/g	12/05/12 00:00	12/05/12 11:50	1
Cesium 134	0.012	U	0.012	0.012	0.039	pCi/g	12/05/12 00:00	12/05/12 11:50	1
Cesium 137	0.006	U	0.013	0.013	0.022	pCi/g	12/05/12 00:00	12/05/12 11:50	1
Cobalt 60	-0.008	U	0.014	0.014	0.023	pCi/g	12/05/12 00:00	12/05/12 11:50	1
Europium 152	0.0090	U	0.0090	0.0091	0.058	pCi/g	12/05/12 00:00	12/05/12 11:50	1
Europium 154	-0.049	U	0.085	0.085	0.14	pCi/g	12/05/12 00:00	12/05/12 11:50	1
Europium 155	0.062	J	0.041	0.041	0.053	pCi/g	12/05/12 00:00	12/05/12 11:50	1
Lead 212	1.04		0.03	0.14	0.03	pCi/g	12/05/12 00:00	12/05/12 11:50	1
Lead 214	0.661	J	0.046	0.083	0.044	pCi/g	12/05/12 00:00	12/05/12 11:50	1
Potassium 40	19.8		0.5	2.1	0.2	pCi/g	12/05/12 00:00	12/05/12 11:50	1
Protactinium 231	0.032	U	0.058	0.059	0.94	pCi/g	12/05/12 00:00	12/05/12 11:50	1
Radium (226)	0.693	J	0.052	0.089	0.045	pCi/g	12/05/12 00:00	12/05/12 11:50	1
Sodium 22	-0.0002	U	0.014	0.014	0.024	pCi/g	12/05/12 00:00	12/05/12 11:50	1
Thallium 208	0.338	J	0.023	0.042	0.021	pCi/g	12/05/12 00:00	12/05/12 11:50	1
Actinium 227	0.04	U	0.14	0.14	0.22	pCi/g	12/05/12 00:00	12/05/12 11:50	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_3S1

Lab Sample ID: 440-27479-1

Date Collected: 10/22/12 13:20

Matrix: Solid

Date Received: 10/22/12 19:25

Percent Solids: 94.6

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Strontium Total	0.043	J	0.026	0.026	0.041	pCi/g	07/01/13 00:00	07/15/13 17:39	1
Tracer	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Sr Tracer	72		40 - 110				07/01/13 00:00	07/15/13 17:39	1

Client Sample ID: 125727_2S2

Lab Sample ID: 440-27479-2

Date Collected: 10/22/12 14:10

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		10	2.5	ug/Kg			10/26/12 01:38	1
Styrene	ND		10	2.9	ug/Kg			10/26/12 01:38	1
cis-1,3-Dichloropropene	ND		10	2.2	ug/Kg			10/26/12 01:38	1
trans-1,3-Dichloropropene	ND		10	3.1	ug/Kg			10/26/12 01:38	1
N-Propylbenzene	ND		10	3.1	ug/Kg			10/26/12 01:38	1
n-Butylbenzene	ND		25	3.6	ug/Kg			10/26/12 01:38	1
4-Chlorotoluene	ND		25	3.7	ug/Kg			10/26/12 01:38	1
1,4-Dichlorobenzene	ND		10	4.7	ug/Kg			10/26/12 01:38	1
1,2-Dibromoethane (EDB)	ND		10	4.0	ug/Kg			10/26/12 01:38	1
1,2-Dichloroethane	ND		10	4.0	ug/Kg			10/26/12 01:38	1
4-Methyl-2-pentanone (MIBK)	ND		25	23	ug/Kg			10/26/12 01:38	1
1,3,5-Trimethylbenzene	ND		10	3.2	ug/Kg			10/26/12 01:38	1
Bromobenzene	ND		25	4.2	ug/Kg			10/26/12 01:38	1
Toluene	ND		10	2.5	ug/Kg			10/26/12 01:38	1
Chlorobenzene	ND		10	2.6	ug/Kg			10/26/12 01:38	1
1,2,4-Trichlorobenzene	ND		25	5.0	ug/Kg			10/26/12 01:38	1
Dibromochloromethane	ND		10	3.5	ug/Kg			10/26/12 01:38	1
Tetrachloroethene	ND		10	2.5	ug/Kg			10/26/12 01:38	1
sec-Butylbenzene	ND		25	3.4	ug/Kg			10/26/12 01:38	1
m,p-Xylene	ND		10	4.0	ug/Kg			10/26/12 01:38	1
1,3-Dichloropropane	ND		10	3.2	ug/Kg			10/26/12 01:38	1
cis-1,2-Dichloroethene	ND		10	4.2	ug/Kg			10/26/12 01:38	1
trans-1,2-Dichloroethene	ND		10	3.5	ug/Kg			10/26/12 01:38	1
Methyl-t-Butyl Ether (MTBE)	ND		25	5.0	ug/Kg			10/26/12 01:38	1
1,3-Dichlorobenzene	ND		10	4.2	ug/Kg			10/26/12 01:38	1
Carbon tetrachloride	ND *		25	2.5	ug/Kg			10/26/12 01:38	1
1,1-Dichloropropene	ND		10	2.0	ug/Kg			10/26/12 01:38	1
2-Hexanone	ND		130	46	ug/Kg			10/26/12 01:38	1
2,2-Dichloropropane	ND		10	3.0	ug/Kg			10/26/12 01:38	1
1,1,1,2-Tetrachloroethane	ND *		25	2.9	ug/Kg			10/26/12 01:38	1
Acetone	ND		50	40	ug/Kg			10/26/12 01:38	1
Chloroform	ND		10	2.5	ug/Kg			10/26/12 01:38	1
Benzene	ND		10	2.5	ug/Kg			10/26/12 01:38	1
1,1,1-Trichloroethane	ND		10	3.5	ug/Kg			10/26/12 01:38	1
Bromomethane	ND		25	4.6	ug/Kg			10/26/12 01:38	1
Chloromethane	ND		25	5.0	ug/Kg			10/26/12 01:38	1
Dibromomethane	ND		10	4.5	ug/Kg			10/26/12 01:38	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_2S2

Lab Sample ID: 440-27479-2

Date Collected: 10/22/12 14:10

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		25	4.5	ug/Kg			10/26/12 01:38	1
Chloroethane	ND		25	7.5	ug/Kg			10/26/12 01:38	1
Vinyl chloride	ND		25	4.6	ug/Kg			10/26/12 01:38	1
Methylene Chloride	ND		100	33	ug/Kg			10/26/12 01:38	1
Carbon disulfide	ND		25	4.9	ug/Kg			10/26/12 01:38	1
Bromoform	ND		25	4.0	ug/Kg			10/26/12 01:38	1
Bromodichloromethane	ND		10	2.5	ug/Kg			10/26/12 01:38	1
1,1-Dichloroethane	ND		10	2.5	ug/Kg			10/26/12 01:38	1
1,1-Dichloroethene	ND		25	3.0	ug/Kg			10/26/12 01:38	1
Trichlorofluoromethane	ND		25	2.7	ug/Kg			10/26/12 01:38	1
Dichlorodifluoromethane	ND		25	7.5	ug/Kg			10/26/12 01:38	1
1,2-Dichloropropane	ND		10	4.0	ug/Kg			10/26/12 01:38	1
2-Butanone (MEK)	ND		50	30	ug/Kg			10/26/12 01:38	1
1,1,2-Trichloroethane	ND		10	4.4	ug/Kg			10/26/12 01:38	1
Trichloroethene	ND		10	2.5	ug/Kg			10/26/12 01:38	1
1,1,2,2-Tetrachloroethane	ND		10	4.3	ug/Kg			10/26/12 01:38	1
1,2,3-Trichlorobenzene	ND		25	5.0	ug/Kg			10/26/12 01:38	1
Hexachlorobutadiene	ND		25	4.0	ug/Kg			10/26/12 01:38	1
Naphthalene	ND		25	5.5	ug/Kg			10/26/12 01:38	1
o-Xylene	ND		10	2.5	ug/Kg			10/26/12 01:38	1
2-Chlorotoluene	ND		25	4.4	ug/Kg			10/26/12 01:38	1
1,2-Dichlorobenzene	ND		10	4.8	ug/Kg			10/26/12 01:38	1
1,2,4-Trimethylbenzene	ND		10	3.9	ug/Kg			10/26/12 01:38	1
1,2-Dibromo-3-Chloropropane	ND		25	7.5	ug/Kg			10/26/12 01:38	1
1,2,3-Trichloropropane	ND		50	5.0	ug/Kg			10/26/12 01:38	1
tert-Butylbenzene	ND		25	3.1	ug/Kg			10/26/12 01:38	1
Isopropylbenzene	ND		10	2.7	ug/Kg			10/26/12 01:38	1
p-Isopropyltoluene	ND		10	3.6	ug/Kg			10/26/12 01:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 120					10/26/12 01:38	1
4-Bromofluorobenzene (Surr)	103		80 - 120					10/26/12 01:38	1
Dibromofluoromethane (Surr)	112		80 - 125					10/26/12 01:38	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 00:36	1
Aroclor 1221	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 00:36	1
Aroclor 1232	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 00:36	1
Aroclor 1242	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 00:36	1
Aroclor 1248	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 00:36	1
Aroclor 1254	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 00:36	1
Aroclor 1260	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 00:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	82		45 - 120				10/25/12 06:56	10/26/12 00:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.2	J	10	1.2	mg/Kg		10/25/12 11:13	10/26/12 19:38	5

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_2S2

Lab Sample ID: 440-27479-2

Date Collected: 10/22/12 14:10

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.8		2.0	0.81	mg/Kg		10/25/12 11:13	10/26/12 19:38	5
Barium	89		1.0	0.80	mg/Kg		10/25/12 11:13	10/26/12 19:38	5
Beryllium	0.42	J	0.50	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:38	5
Cadmium	0.21	J	0.50	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:38	5
Chromium	14		1.0	0.30	mg/Kg		10/25/12 11:13	10/26/12 19:38	5
Cobalt	3.7		1.0	0.30	mg/Kg		10/25/12 11:13	10/26/12 19:38	5
Copper	10		2.0	0.38	mg/Kg		10/25/12 11:13	10/26/12 19:38	5
Lead	12		2.0	0.50	mg/Kg		10/25/12 11:13	10/26/12 19:38	5
Molybdenum	1.5	J	2.0	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:38	5
Nickel	9.0		2.0	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:38	5
Selenium	ND		2.0	1.0	mg/Kg		10/25/12 11:13	10/26/12 19:38	5
Thallium	ND		10	0.80	mg/Kg		10/25/12 11:13	10/26/12 19:38	5
Vanadium	30		1.0	0.30	mg/Kg		10/25/12 11:13	10/26/12 19:38	5
Zinc	300		5.0	0.50	mg/Kg		10/25/12 11:13	10/26/12 19:38	5
Silver	ND		1.0	0.80	mg/Kg		10/25/12 11:13	10/26/12 19:38	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026	^	0.020	0.012	mg/Kg		10/28/12 15:40	10/29/12 15:01	1

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Tritium	0.11		0.15	0.15	0.24	pCi/g	12/05/12 00:00	12/05/12 13:23	1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Uranium 234	0.70		0.16	0.17	0.06	pCi/g	06/06/13 00:00	06/11/13 10:41	1
Uranium 235/236	0.054		0.048	0.048	0.029	pCi/g	06/06/13 00:00	06/11/13 10:41	1
Uranium 238	0.69		0.16	0.17	0.06	pCi/g	06/06/13 00:00	06/11/13 10:41	1
<i>Tracer</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Uranium-232	39		30 - 110				06/06/13 00:00	06/11/13 10:41	1

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Actinium 228	1.24		0.08	0.15	0.13	pCi/g	12/05/12 00:00	12/05/12 12:02	1
Antimony 125	0.093	J	0.022	0.024	0.060	pCi/g	12/05/12 00:00	12/05/12 12:02	1
Bismuth 212	0.87	J	0.19	0.21	0.17	pCi/g	12/05/12 00:00	12/05/12 12:02	1
Bismuth 214	0.694	J	0.052	0.089	0.045	pCi/g	12/05/12 00:00	12/05/12 12:02	1
Cesium 134	0.011	U	0.017	0.017	0.053	pCi/g	12/05/12 00:00	12/05/12 12:02	1
Cesium 137	-0.001	U	0.015	0.015	0.026	pCi/g	12/05/12 00:00	12/05/12 12:02	1
Cobalt 60	0.0081	U	0.0095	0.0095	0.024	pCi/g	12/05/12 00:00	12/05/12 12:02	1
Europium 152	0.008	U	0.029	0.029	0.064	pCi/g	12/05/12 00:00	12/05/12 12:02	1
Europium 154	0.030	U	0.087	0.087	0.15	pCi/g	12/05/12 00:00	12/05/12 12:02	1
Europium 155	0.064	J	0.039	0.040	0.052	pCi/g	12/05/12 00:00	12/05/12 12:02	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_2S2

Lab Sample ID: 440-27479-2

Date Collected: 10/22/12 14:10

Matrix: Solid

Date Received: 10/22/12 19:25

Percent Solids: 97.7

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD (Continued)

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Lead 212	1.25		0.04	0.17	0.03	pCi/g	12/05/12 00:00	12/05/12 12:02	1
Lead 214	0.773	J	0.046	0.093	0.047	pCi/g	12/05/12 00:00	12/05/12 12:02	1
Potassium 40	19.9		0.6	2.1	0.2	pCi/g	12/05/12 00:00	12/05/12 12:02	1
Protactinium 231	0.14	U	0.59	0.59	0.98	pCi/g	12/05/12 00:00	12/05/12 12:02	1
Radium (226)	0.694	J	0.052	0.089	0.045	pCi/g	12/05/12 00:00	12/05/12 12:02	1
Sodium 22	-0.01	U	0.018	0.018	0.030	pCi/g	12/05/12 00:00	12/05/12 12:02	1
Thallium 208	0.413	J	0.034	0.055	0.027	pCi/g	12/05/12 00:00	12/05/12 12:02	1
Actinium 227	0.04	U	0.17	0.17	0.25	pCi/g	12/05/12 00:00	12/05/12 12:02	1

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Strontium Total	0.043	J	0.031	0.031	0.048	pCi/g	07/01/13 00:00	07/12/13 05:41	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Sr Tracer	77		40 - 110	07/01/13 00:00	07/12/13 05:41	1

Client Sample ID: 125727_3S3

Lab Sample ID: 440-27479-3

Date Collected: 10/22/12 13:26

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.6	2.4	ug/Kg			10/26/12 02:05	1
Styrene	ND		9.6	2.8	ug/Kg			10/26/12 02:05	1
cis-1,3-Dichloropropene	ND		9.6	2.1	ug/Kg			10/26/12 02:05	1
trans-1,3-Dichloropropene	ND		9.6	2.9	ug/Kg			10/26/12 02:05	1
N-Propylbenzene	ND		9.6	2.9	ug/Kg			10/26/12 02:05	1
n-Butylbenzene	ND		24	3.5	ug/Kg			10/26/12 02:05	1
4-Chlorotoluene	ND		24	3.6	ug/Kg			10/26/12 02:05	1
1,4-Dichlorobenzene	ND		9.6	4.5	ug/Kg			10/26/12 02:05	1
1,2-Dibromoethane (EDB)	ND		9.6	3.8	ug/Kg			10/26/12 02:05	1
1,2-Dichloroethane	ND		9.6	3.8	ug/Kg			10/26/12 02:05	1
4-Methyl-2-pentanone (MIBK)	ND		24	22	ug/Kg			10/26/12 02:05	1
1,3,5-Trimethylbenzene	ND		9.6	3.0	ug/Kg			10/26/12 02:05	1
Bromobenzene	ND		24	4.0	ug/Kg			10/26/12 02:05	1
Toluene	ND		9.6	2.4	ug/Kg			10/26/12 02:05	1
Chlorobenzene	ND		9.6	2.5	ug/Kg			10/26/12 02:05	1
1,2,4-Trichlorobenzene	ND		24	4.8	ug/Kg			10/26/12 02:05	1
Dibromochloromethane	ND		9.6	3.4	ug/Kg			10/26/12 02:05	1
Tetrachloroethene	ND		9.6	2.4	ug/Kg			10/26/12 02:05	1
sec-Butylbenzene	ND		24	3.2	ug/Kg			10/26/12 02:05	1
m,p-Xylene	ND		9.6	3.8	ug/Kg			10/26/12 02:05	1
1,3-Dichloropropane	ND		9.6	3.0	ug/Kg			10/26/12 02:05	1
cis-1,2-Dichloroethene	ND		9.6	4.0	ug/Kg			10/26/12 02:05	1
trans-1,2-Dichloroethene	ND		9.6	3.4	ug/Kg			10/26/12 02:05	1
Methyl-t-Butyl Ether (MTBE)	ND		24	4.8	ug/Kg			10/26/12 02:05	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_3S3

Lab Sample ID: 440-27479-3

Date Collected: 10/22/12 13:26

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		9.6	4.0	ug/Kg			10/26/12 02:05	1
Carbon tetrachloride	ND	*	24	2.4	ug/Kg			10/26/12 02:05	1
1,1-Dichloropropene	ND		9.6	1.9	ug/Kg			10/26/12 02:05	1
2-Hexanone	ND		120	44	ug/Kg			10/26/12 02:05	1
2,2-Dichloropropane	ND		9.6	2.9	ug/Kg			10/26/12 02:05	1
1,1,1,2-Tetrachloroethane	ND	*	24	2.7	ug/Kg			10/26/12 02:05	1
Acetone	ND		48	38	ug/Kg			10/26/12 02:05	1
Chloroform	ND		9.6	2.4	ug/Kg			10/26/12 02:05	1
Benzene	ND		9.6	2.4	ug/Kg			10/26/12 02:05	1
1,1,1-Trichloroethane	ND		9.6	3.4	ug/Kg			10/26/12 02:05	1
Bromomethane	ND		24	4.4	ug/Kg			10/26/12 02:05	1
Chloromethane	ND		24	4.8	ug/Kg			10/26/12 02:05	1
Dibromomethane	ND		9.6	4.3	ug/Kg			10/26/12 02:05	1
Bromochloromethane	ND		24	4.3	ug/Kg			10/26/12 02:05	1
Chloroethane	ND		24	7.2	ug/Kg			10/26/12 02:05	1
Vinyl chloride	ND		24	4.4	ug/Kg			10/26/12 02:05	1
Methylene Chloride	ND		96	31	ug/Kg			10/26/12 02:05	1
Carbon disulfide	ND		24	4.7	ug/Kg			10/26/12 02:05	1
Bromoform	ND		24	3.8	ug/Kg			10/26/12 02:05	1
Bromodichloromethane	ND		9.6	2.4	ug/Kg			10/26/12 02:05	1
1,1-Dichloroethane	ND		9.6	2.4	ug/Kg			10/26/12 02:05	1
1,1-Dichloroethene	ND		24	2.9	ug/Kg			10/26/12 02:05	1
Trichlorofluoromethane	ND		24	2.6	ug/Kg			10/26/12 02:05	1
Dichlorodifluoromethane	ND		24	7.2	ug/Kg			10/26/12 02:05	1
1,2-Dichloropropane	ND		9.6	3.8	ug/Kg			10/26/12 02:05	1
2-Butanone (MEK)	ND		48	29	ug/Kg			10/26/12 02:05	1
1,1,2-Trichloroethane	ND		9.6	4.2	ug/Kg			10/26/12 02:05	1
Trichloroethene	ND		9.6	2.4	ug/Kg			10/26/12 02:05	1
1,1,2,2-Tetrachloroethane	ND		9.6	4.1	ug/Kg			10/26/12 02:05	1
1,2,3-Trichlorobenzene	ND		24	4.8	ug/Kg			10/26/12 02:05	1
Hexachlorobutadiene	ND		24	3.8	ug/Kg			10/26/12 02:05	1
Naphthalene	ND		24	5.3	ug/Kg			10/26/12 02:05	1
o-Xylene	ND		9.6	2.4	ug/Kg			10/26/12 02:05	1
2-Chlorotoluene	ND		24	4.2	ug/Kg			10/26/12 02:05	1
1,2-Dichlorobenzene	ND		9.6	4.6	ug/Kg			10/26/12 02:05	1
1,2,4-Trimethylbenzene	ND		9.6	3.8	ug/Kg			10/26/12 02:05	1
1,2-Dibromo-3-Chloropropane	ND		24	7.2	ug/Kg			10/26/12 02:05	1
1,2,3-Trichloropropane	ND		48	4.8	ug/Kg			10/26/12 02:05	1
tert-Butylbenzene	ND		24	3.0	ug/Kg			10/26/12 02:05	1
Isopropylbenzene	ND		9.6	2.6	ug/Kg			10/26/12 02:05	1
p-Isopropyltoluene	ND		9.6	3.5	ug/Kg			10/26/12 02:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		80 - 120		10/26/12 02:05	1
4-Bromofluorobenzene (Surr)	100		80 - 120		10/26/12 02:05	1
Dibromofluoromethane (Surr)	108		80 - 125		10/26/12 02:05	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 00:52	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_3S3

Lab Sample ID: 440-27479-3

Date Collected: 10/22/12 13:26

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1221	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 00:52	1
Aroclor 1232	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 00:52	1
Aroclor 1242	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 00:52	1
Aroclor 1248	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 00:52	1
Aroclor 1254	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 00:52	1
Aroclor 1260	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 00:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	89		45 - 120	10/25/12 06:56	10/26/12 00:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	J	10	1.2	mg/Kg		10/25/12 11:13	10/26/12 19:39	5
Arsenic	7.1		2.0	0.81	mg/Kg		10/25/12 11:13	10/26/12 19:39	5
Barium	51		1.0	0.80	mg/Kg		10/25/12 11:13	10/26/12 19:39	5
Beryllium	0.43	J	0.50	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:39	5
Cadmium	0.31	J	0.50	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:39	5
Chromium	13		1.0	0.30	mg/Kg		10/25/12 11:13	10/26/12 19:39	5
Cobalt	3.5		1.0	0.30	mg/Kg		10/25/12 11:13	10/26/12 19:39	5
Copper	15		2.0	0.38	mg/Kg		10/25/12 11:13	10/26/12 19:39	5
Lead	4.8		2.0	0.50	mg/Kg		10/25/12 11:13	10/26/12 19:39	5
Molybdenum	1.1	J	2.0	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:39	5
Nickel	8.4		2.0	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:39	5
Selenium	ND		2.0	1.0	mg/Kg		10/25/12 11:13	10/26/12 19:39	5
Thallium	ND		10	0.80	mg/Kg		10/25/12 11:13	10/26/12 19:39	5
Vanadium	25		1.0	0.30	mg/Kg		10/25/12 11:13	10/26/12 19:39	5
Zinc	180		5.0	0.50	mg/Kg		10/25/12 11:13	10/26/12 19:39	5
Silver	ND		1.0	0.80	mg/Kg		10/25/12 11:13	10/26/12 19:39	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029	^	0.020	0.012	mg/Kg		10/28/12 15:40	10/29/12 15:03	1

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Tritium	0.19		0.16	0.16	0.25	pCi/g	12/05/12 00:00	12/05/12 14:10	1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Uranium 234	0.82		0.12	0.14	0.03	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Uranium 235/236	0.049		0.035	0.035	0.031	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Uranium 238	0.87		0.13	0.15	0.02	pCi/g	11/09/12 00:00	11/13/12 20:19	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	73		30 - 110	11/09/12 00:00	11/13/12 20:19	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_3S3

Lab Sample ID: 440-27479-3

Date Collected: 10/22/12 13:26

Matrix: Solid

Date Received: 10/22/12 19:25

Percent Solids: 85

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2.000σ+/-)	Uncert. (2.000σ+/-)					
Actinium 228	1.18		0.1	0.16	0.18	pCi/g	12/05/12 00:00	12/05/12 11:39	1
Antimony 125	0.147	J	0.046	0.049	0.10	pCi/g	12/05/12 00:00	12/05/12 11:39	1
Bismuth 212	0.99	J	0.29	0.31	0.27	pCi/g	12/05/12 00:00	12/05/12 11:39	1
Bismuth 214	0.70	J	0.08	0.11	0.07	pCi/g	12/05/12 00:00	12/05/12 11:39	1
Cesium 134	-0.023	U	0.024	0.024	0.040	pCi/g	12/05/12 00:00	12/05/12 11:39	1
Cesium 137	-0.008	U	0.024	0.024	0.041	pCi/g	12/05/12 00:00	12/05/12 11:39	1
Cobalt 60	0.006	U	0.014	0.014	0.033	pCi/g	12/05/12 00:00	12/05/12 11:39	1
Europium 152	0.0049	U	0.0069	0.0069	0.10	pCi/g	12/05/12 00:00	12/05/12 11:39	1
Europium 154	0.028	U	0.064	0.064	0.21	pCi/g	12/05/12 00:00	12/05/12 11:39	1
Europium 155	0.057	J	0.056	0.056	0.091	pCi/g	12/05/12 00:00	12/05/12 11:39	1
Lead 212	1.18		0.07	0.17	0.06	pCi/g	12/05/12 00:00	12/05/12 11:39	1
Lead 214	0.76	J	0.07	0.11	0.07	pCi/g	12/05/12 00:00	12/05/12 11:39	1
Potassium 40	20.3		0.9	2.2	0.3	pCi/g	12/05/12 00:00	12/05/12 11:39	1
Protactinium 231	0.47	U	0.88	0.88	1.5	pCi/g	12/05/12 00:00	12/05/12 11:39	1
Radium (226)	0.70	J	0.08	0.11	0.07	pCi/g	12/05/12 00:00	12/05/12 11:39	1
Sodium 22	-0.008	U	0.026	0.026	0.044	pCi/g	12/05/12 00:00	12/05/12 11:39	1
Thallium 208	0.399	J	0.043	0.060	0.039	pCi/g	12/05/12 00:00	12/05/12 11:39	1
Actinium 227	-0.008	U	0.21	0.21	0.36	pCi/g	12/05/12 00:00	12/05/12 11:39	1

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2.000σ+/-)	Uncert. (2.000σ+/-)					
Strontium Total	-0.008	U	0.023	0.023	0.039	pCi/g	07/01/13 00:00	07/15/13 17:39	1
<i>Tracer</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Sr Tracer</i>	76		40 - 110				07/01/13 00:00	07/15/13 17:39	1

Client Sample ID: 125727_4S4

Lab Sample ID: 440-27479-4

Date Collected: 10/22/12 14:30

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		10	2.5	ug/Kg			10/26/12 02:33	1
Styrene	ND		10	2.9	ug/Kg			10/26/12 02:33	1
cis-1,3-Dichloropropene	ND		10	2.2	ug/Kg			10/26/12 02:33	1
trans-1,3-Dichloropropene	ND		10	3.1	ug/Kg			10/26/12 02:33	1
N-Propylbenzene	ND		10	3.1	ug/Kg			10/26/12 02:33	1
n-Butylbenzene	ND		25	3.6	ug/Kg			10/26/12 02:33	1
4-Chlorotoluene	ND		25	3.7	ug/Kg			10/26/12 02:33	1
1,4-Dichlorobenzene	ND		10	4.7	ug/Kg			10/26/12 02:33	1
1,2-Dibromoethane (EDB)	ND		10	4.0	ug/Kg			10/26/12 02:33	1
1,2-Dichloroethane	ND		10	4.0	ug/Kg			10/26/12 02:33	1
4-Methyl-2-pentanone (MIBK)	ND		25	23	ug/Kg			10/26/12 02:33	1
1,3,5-Trimethylbenzene	ND		10	3.2	ug/Kg			10/26/12 02:33	1
Bromobenzene	ND		25	4.2	ug/Kg			10/26/12 02:33	1
Toluene	ND		10	2.5	ug/Kg			10/26/12 02:33	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_4S4

Lab Sample ID: 440-27479-4

Date Collected: 10/22/12 14:30

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		10	2.6	ug/Kg			10/26/12 02:33	1
1,2,4-Trichlorobenzene	ND		25	5.1	ug/Kg			10/26/12 02:33	1
Dibromochloromethane	ND		10	3.5	ug/Kg			10/26/12 02:33	1
Tetrachloroethene	ND		10	2.5	ug/Kg			10/26/12 02:33	1
sec-Butylbenzene	ND		25	3.4	ug/Kg			10/26/12 02:33	1
m,p-Xylene	ND		10	4.0	ug/Kg			10/26/12 02:33	1
1,3-Dichloropropane	ND		10	3.2	ug/Kg			10/26/12 02:33	1
cis-1,2-Dichloroethene	ND		10	4.2	ug/Kg			10/26/12 02:33	1
trans-1,2-Dichloroethene	ND		10	3.5	ug/Kg			10/26/12 02:33	1
Methyl-t-Butyl Ether (MTBE)	ND		25	5.1	ug/Kg			10/26/12 02:33	1
1,3-Dichlorobenzene	ND		10	4.2	ug/Kg			10/26/12 02:33	1
Carbon tetrachloride	ND *		25	2.5	ug/Kg			10/26/12 02:33	1
1,1-Dichloropropene	ND		10	2.0	ug/Kg			10/26/12 02:33	1
2-Hexanone	ND		130	46	ug/Kg			10/26/12 02:33	1
2,2-Dichloropropane	ND		10	3.0	ug/Kg			10/26/12 02:33	1
1,1,1,2-Tetrachloroethane	ND *		25	2.9	ug/Kg			10/26/12 02:33	1
Acetone	ND		51	40	ug/Kg			10/26/12 02:33	1
Chloroform	ND		10	2.5	ug/Kg			10/26/12 02:33	1
Benzene	ND		10	2.5	ug/Kg			10/26/12 02:33	1
1,1,1-Trichloroethane	ND		10	3.5	ug/Kg			10/26/12 02:33	1
Bromomethane	ND		25	4.6	ug/Kg			10/26/12 02:33	1
Chloromethane	ND		25	5.1	ug/Kg			10/26/12 02:33	1
Dibromomethane	ND		10	4.5	ug/Kg			10/26/12 02:33	1
Bromochloromethane	ND		25	4.5	ug/Kg			10/26/12 02:33	1
Chloroethane	ND		25	7.6	ug/Kg			10/26/12 02:33	1
Vinyl chloride	ND		25	4.6	ug/Kg			10/26/12 02:33	1
Methylene Chloride	ND		100	33	ug/Kg			10/26/12 02:33	1
Carbon disulfide	ND		25	4.9	ug/Kg			10/26/12 02:33	1
Bromoform	ND		25	4.0	ug/Kg			10/26/12 02:33	1
Bromodichloromethane	ND		10	2.5	ug/Kg			10/26/12 02:33	1
1,1-Dichloroethane	ND		10	2.5	ug/Kg			10/26/12 02:33	1
1,1-Dichloroethene	ND		25	3.0	ug/Kg			10/26/12 02:33	1
Trichlorofluoromethane	ND		25	2.7	ug/Kg			10/26/12 02:33	1
Dichlorodifluoromethane	ND		25	7.6	ug/Kg			10/26/12 02:33	1
1,2-Dichloropropane	ND		10	4.0	ug/Kg			10/26/12 02:33	1
2-Butanone (MEK)	ND		51	30	ug/Kg			10/26/12 02:33	1
1,1,2-Trichloroethane	ND		10	4.4	ug/Kg			10/26/12 02:33	1
Trichloroethene	ND		10	2.5	ug/Kg			10/26/12 02:33	1
1,1,2,2-Tetrachloroethane	ND		10	4.3	ug/Kg			10/26/12 02:33	1
1,2,3-Trichlorobenzene	ND		25	5.1	ug/Kg			10/26/12 02:33	1
Hexachlorobutadiene	ND		25	4.0	ug/Kg			10/26/12 02:33	1
Naphthalene	ND		25	5.6	ug/Kg			10/26/12 02:33	1
o-Xylene	ND		10	2.5	ug/Kg			10/26/12 02:33	1
2-Chlorotoluene	ND		25	4.4	ug/Kg			10/26/12 02:33	1
1,2-Dichlorobenzene	ND		10	4.8	ug/Kg			10/26/12 02:33	1
1,2,4-Trimethylbenzene	ND		10	3.9	ug/Kg			10/26/12 02:33	1
1,2-Dibromo-3-Chloropropane	ND		25	7.6	ug/Kg			10/26/12 02:33	1
1,2,3-Trichloropropane	ND		51	5.1	ug/Kg			10/26/12 02:33	1
tert-Butylbenzene	ND		25	3.1	ug/Kg			10/26/12 02:33	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_4S4

Lab Sample ID: 440-27479-4

Date Collected: 10/22/12 14:30

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		10	2.7	ug/Kg			10/26/12 02:33	1
p-Isopropyltoluene	ND		10	3.6	ug/Kg			10/26/12 02:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	108		80 - 120					10/26/12 02:33	1
4-Bromofluorobenzene (Surr)	104		80 - 120					10/26/12 02:33	1
Dibromofluoromethane (Surr)	115		80 - 125					10/26/12 02:33	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 01:07	1
Aroclor 1221	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 01:07	1
Aroclor 1232	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 01:07	1
Aroclor 1242	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 01:07	1
Aroclor 1248	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 01:07	1
Aroclor 1254	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 01:07	1
Aroclor 1260	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 01:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	81		45 - 120				10/25/12 06:56	10/26/12 01:07	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	J	9.9	1.1	mg/Kg		10/25/12 11:13	10/26/12 19:41	5
Arsenic	7.3		2.0	0.80	mg/Kg		10/25/12 11:13	10/26/12 19:41	5
Barium	91		0.99	0.79	mg/Kg		10/25/12 11:13	10/26/12 19:41	5
Beryllium	0.80		0.50	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:41	5
Cadmium	ND		0.50	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:41	5
Chromium	18		0.99	0.30	mg/Kg		10/25/12 11:13	10/26/12 19:41	5
Cobalt	5.1		0.99	0.30	mg/Kg		10/25/12 11:13	10/26/12 19:41	5
Copper	7.6		2.0	0.38	mg/Kg		10/25/12 11:13	10/26/12 19:41	5
Lead	5.3		2.0	0.50	mg/Kg		10/25/12 11:13	10/26/12 19:41	5
Molybdenum	1.6	J	2.0	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:41	5
Nickel	13		2.0	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:41	5
Selenium	ND		2.0	0.99	mg/Kg		10/25/12 11:13	10/26/12 19:41	5
Thallium	ND		9.9	0.79	mg/Kg		10/25/12 11:13	10/26/12 19:41	5
Vanadium	34		0.99	0.30	mg/Kg		10/25/12 11:13	10/26/12 19:41	5
Zinc	41		5.0	0.50	mg/Kg		10/25/12 11:13	10/26/12 19:41	5
Silver	ND		0.99	0.79	mg/Kg		10/25/12 11:13	10/26/12 19:41	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.020	0.012	mg/Kg		10/28/12 15:40	10/29/12 16:17	1

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2.000σ+/-)	Uncert. (2.000σ+/-)					
Tritium	0.14		0.15	0.15	0.24	pCi/g	12/05/12 00:00	12/05/12 14:34	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_4S4

Lab Sample ID: 440-27479-4

Date Collected: 10/22/12 14:30

Matrix: Solid

Date Received: 10/22/12 19:25

Percent Solids: 92.1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Uranium 234	0.87		0.13	0.15	0.03	pCi/g	11/09/12 00:00	11/15/12 00:42	1
Uranium 235/236	0.065		0.041	0.042	0.033	pCi/g	11/09/12 00:00	11/15/12 00:42	1
Uranium 238	0.85		0.13	0.15	0.02	pCi/g	11/09/12 00:00	11/15/12 00:42	1
Tracer	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Uranium-232	69		30 - 110				11/09/12 00:00	11/15/12 00:42	1

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Actinium 228	1.34		0.07	0.15	0.11	pCi/g	12/05/12 00:00	12/05/12 11:43	1
Antimony 125	0.149	J	0.035	0.039	0.062	pCi/g	12/05/12 00:00	12/05/12 11:43	1
Bismuth 212	1.03		0.20	0.23	0.18	pCi/g	12/05/12 00:00	12/05/12 11:43	1
Bismuth 214	0.95	J	0.06	0.12	0.05	pCi/g	12/05/12 00:00	12/05/12 11:43	1
Cesium 134	0.0022	U	0.0049	0.0049	0.071	pCi/g	12/05/12 00:00	12/05/12 11:43	1
Cesium 137	-0.003	U	0.017	0.017	0.028	pCi/g	12/05/12 00:00	12/05/12 11:43	1
Cobalt 60	0.009	U	0.013	0.013	0.026	pCi/g	12/05/12 00:00	12/05/12 11:43	1
Europium 152	0.011	U	0.018	0.018	0.075	pCi/g	12/05/12 00:00	12/05/12 11:43	1
Europium 154	-0.0563	U	0.0997	0.0999	0.17	pCi/g	12/05/12 00:00	12/05/12 11:43	1
Europium 155	0.055	J	0.046	0.046	0.075	pCi/g	12/05/12 00:00	12/05/12 11:43	1
Lead 212	1.43		0.05	0.19	0.04	pCi/g	12/05/12 00:00	12/05/12 11:43	1
Lead 214	0.95	J	0.05	0.11	0.06	pCi/g	12/05/12 00:00	12/05/12 11:43	1
Potassium 40	19.8		0.6	2.1	0.3	pCi/g	12/05/12 00:00	12/05/12 11:43	1
Protactinium 231	0.23	U	0.73	0.73	1.2	pCi/g	12/05/12 00:00	12/05/12 11:43	1
Radium (226)	0.95	J	0.06	0.12	0.05	pCi/g	12/05/12 00:00	12/05/12 11:43	1
Sodium 22	0.005	U	0.017	0.017	0.028	pCi/g	12/05/12 00:00	12/05/12 11:43	1
Thallium 208	0.443	J	0.031	0.055	0.026	pCi/g	12/05/12 00:00	12/05/12 11:43	1
Actinium 227	0.421		0.033	0.061	0.29	pCi/g	12/05/12 00:00	12/05/12 11:43	1

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Strontium Total	-0.003	U	0.027	0.027	0.047	pCi/g	07/01/13 00:00	07/12/13 05:42	1
Tracer	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Sr Tracer	86		40 - 110				07/01/13 00:00	07/12/13 05:42	1

Client Sample ID: 125727_7S5

Lab Sample ID: 440-27479-5

Date Collected: 10/22/12 14:35

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.8	2.5	ug/Kg			10/26/12 13:28	1
Styrene	ND		9.8	2.8	ug/Kg			10/26/12 13:28	1
cis-1,3-Dichloropropene	ND		9.8	2.2	ug/Kg			10/26/12 13:28	1
trans-1,3-Dichloropropene	ND	*	9.8	3.0	ug/Kg			10/26/12 13:28	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_7S5

Lab Sample ID: 440-27479-5

Date Collected: 10/22/12 14:35

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		9.8	3.0	ug/Kg			10/26/12 13:28	1
n-Butylbenzene	ND		25	3.5	ug/Kg			10/26/12 13:28	1
4-Chlorotoluene	ND		25	3.6	ug/Kg			10/26/12 13:28	1
1,4-Dichlorobenzene	ND		9.8	4.6	ug/Kg			10/26/12 13:28	1
1,2-Dibromoethane (EDB)	ND		9.8	3.9	ug/Kg			10/26/12 13:28	1
1,2-Dichloroethane	ND		9.8	3.9	ug/Kg			10/26/12 13:28	1
4-Methyl-2-pentanone (MIBK)	ND		25	22	ug/Kg			10/26/12 13:28	1
1,3,5-Trimethylbenzene	ND		9.8	3.1	ug/Kg			10/26/12 13:28	1
Bromobenzene	ND		25	4.1	ug/Kg			10/26/12 13:28	1
Toluene	ND		9.8	2.5	ug/Kg			10/26/12 13:28	1
Chlorobenzene	ND		9.8	2.5	ug/Kg			10/26/12 13:28	1
1,2,4-Trichlorobenzene	ND		25	4.9	ug/Kg			10/26/12 13:28	1
Dibromochloromethane	ND		9.8	3.4	ug/Kg			10/26/12 13:28	1
Tetrachloroethene	ND		9.8	2.4	ug/Kg			10/26/12 13:28	1
sec-Butylbenzene	ND		25	3.3	ug/Kg			10/26/12 13:28	1
m,p-Xylene	ND		9.8	3.9	ug/Kg			10/26/12 13:28	1
1,3-Dichloropropane	ND		9.8	3.1	ug/Kg			10/26/12 13:28	1
cis-1,2-Dichloroethene	ND		9.8	4.1	ug/Kg			10/26/12 13:28	1
trans-1,2-Dichloroethene	ND		9.8	3.4	ug/Kg			10/26/12 13:28	1
Methyl-t-Butyl Ether (MTBE)	ND		25	4.9	ug/Kg			10/26/12 13:28	1
1,3-Dichlorobenzene	ND		9.8	4.1	ug/Kg			10/26/12 13:28	1
Carbon tetrachloride	ND *		25	2.5	ug/Kg			10/26/12 13:28	1
1,1-Dichloropropene	ND		9.8	2.0	ug/Kg			10/26/12 13:28	1
2-Hexanone	ND		120	45	ug/Kg			10/26/12 13:28	1
2,2-Dichloropropane	ND		9.8	2.9	ug/Kg			10/26/12 13:28	1
1,1,1,2-Tetrachloroethane	ND *		25	2.8	ug/Kg			10/26/12 13:28	1
Acetone	ND		49	39	ug/Kg			10/26/12 13:28	1
Chloroform	ND		9.8	2.5	ug/Kg			10/26/12 13:28	1
Benzene	ND		9.8	2.5	ug/Kg			10/26/12 13:28	1
1,1,1-Trichloroethane	ND		9.8	3.4	ug/Kg			10/26/12 13:28	1
Bromomethane	ND		25	4.5	ug/Kg			10/26/12 13:28	1
Chloromethane	ND		25	4.9	ug/Kg			10/26/12 13:28	1
Dibromomethane	ND		9.8	4.4	ug/Kg			10/26/12 13:28	1
Bromochloromethane	ND		25	4.4	ug/Kg			10/26/12 13:28	1
Chloroethane	ND		25	7.4	ug/Kg			10/26/12 13:28	1
Vinyl chloride	ND		25	4.5	ug/Kg			10/26/12 13:28	1
Methylene Chloride	ND		98	32	ug/Kg			10/26/12 13:28	1
Carbon disulfide	ND		25	4.8	ug/Kg			10/26/12 13:28	1
Bromoform	ND		25	3.9	ug/Kg			10/26/12 13:28	1
Bromodichloromethane	ND		9.8	2.5	ug/Kg			10/26/12 13:28	1
1,1-Dichloroethane	ND		9.8	2.5	ug/Kg			10/26/12 13:28	1
1,1-Dichloroethene	ND		25	2.9	ug/Kg			10/26/12 13:28	1
Trichlorofluoromethane	ND		25	2.6	ug/Kg			10/26/12 13:28	1
Dichlorodifluoromethane	ND		25	7.4	ug/Kg			10/26/12 13:28	1
1,2-Dichloropropane	ND		9.8	3.9	ug/Kg			10/26/12 13:28	1
2-Butanone (MEK)	ND		49	29	ug/Kg			10/26/12 13:28	1
1,1,2-Trichloroethane	ND		9.8	4.3	ug/Kg			10/26/12 13:28	1
Trichloroethene	ND		9.8	2.5	ug/Kg			10/26/12 13:28	1
1,1,2,2-Tetrachloroethane	ND		9.8	4.2	ug/Kg			10/26/12 13:28	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_7S5

Lab Sample ID: 440-27479-5

Date Collected: 10/22/12 14:35

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		25	4.9	ug/Kg			10/26/12 13:28	1
Hexachlorobutadiene	ND		25	3.9	ug/Kg			10/26/12 13:28	1
Naphthalene	ND		25	5.4	ug/Kg			10/26/12 13:28	1
o-Xylene	ND		9.8	2.5	ug/Kg			10/26/12 13:28	1
2-Chlorotoluene	ND		25	4.3	ug/Kg			10/26/12 13:28	1
1,2-Dichlorobenzene	ND		9.8	4.7	ug/Kg			10/26/12 13:28	1
1,2,4-Trimethylbenzene	ND		9.8	3.8	ug/Kg			10/26/12 13:28	1
1,2-Dibromo-3-Chloropropane	ND		25	7.4	ug/Kg			10/26/12 13:28	1
1,2,3-Trichloropropane	ND		49	4.9	ug/Kg			10/26/12 13:28	1
tert-Butylbenzene	ND		25	3.0	ug/Kg			10/26/12 13:28	1
Isopropylbenzene	ND		9.8	2.6	ug/Kg			10/26/12 13:28	1
p-Isopropyltoluene	ND		9.8	3.5	ug/Kg			10/26/12 13:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 120					10/26/12 13:28	1
4-Bromofluorobenzene (Surr)	105		80 - 120					10/26/12 13:28	1
Dibromofluoromethane (Surr)	113		80 - 125					10/26/12 13:28	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 01:22	1
Aroclor 1221	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 01:22	1
Aroclor 1232	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 01:22	1
Aroclor 1242	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 01:22	1
Aroclor 1248	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 01:22	1
Aroclor 1254	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 01:22	1
Aroclor 1260	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 01:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	85		45 - 120				10/25/12 06:56	10/26/12 01:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.4	J	10	1.1	mg/Kg		10/25/12 11:13	10/26/12 19:43	5
Arsenic	7.6		2.0	0.81	mg/Kg		10/25/12 11:13	10/26/12 19:43	5
Barium	91		1.0	0.80	mg/Kg		10/25/12 11:13	10/26/12 19:43	5
Beryllium	0.55		0.50	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:43	5
Cadmium	0.32	J	0.50	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:43	5
Chromium	14		1.0	0.30	mg/Kg		10/25/12 11:13	10/26/12 19:43	5
Cobalt	4.6		1.0	0.30	mg/Kg		10/25/12 11:13	10/26/12 19:43	5
Copper	12		2.0	0.38	mg/Kg		10/25/12 11:13	10/26/12 19:43	5
Lead	5.9		2.0	0.50	mg/Kg		10/25/12 11:13	10/26/12 19:43	5
Molybdenum	1.4	J	2.0	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:43	5
Nickel	10		2.0	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:43	5
Selenium	ND		2.0	1.0	mg/Kg		10/25/12 11:13	10/26/12 19:43	5
Thallium	ND		10	0.80	mg/Kg		10/25/12 11:13	10/26/12 19:43	5
Vanadium	34		1.0	0.30	mg/Kg		10/25/12 11:13	10/26/12 19:43	5
Zinc	640		5.0	0.50	mg/Kg		10/25/12 11:13	10/26/12 19:43	5
Silver	ND		1.0	0.80	mg/Kg		10/25/12 11:13	10/26/12 19:43	5

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_7S5

Lab Sample ID: 440-27479-5

Date Collected: 10/22/12 14:35

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.020	0.012	mg/Kg		10/28/12 15:40	10/29/12 16:32	1

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Analyte	Result	Qualifier	Count Uncert. (2.000σ+/-)	Total Uncert. (2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	0.09	U	0.14	0.14	0.25	pCi/g	12/05/12 00:00	12/05/12 14:57	1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Analyte	Result	Qualifier	Count Uncert. (2.000σ+/-)	Total Uncert. (2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium 234	0.69		0.11	0.12	0.02	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Uranium 235/236	0.044		0.031	0.031	0.015	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Uranium 238	0.74		0.11	0.13	0.02	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Tracer	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Uranium-232	78		30 - 110				11/09/12 00:00	11/13/12 20:19	1

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Analyte	Result	Qualifier	Count Uncert. (2.000σ+/-)	Total Uncert. (2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium 228	1.19		0.08	0.14	0.12	pCi/g	12/05/12 00:00	12/05/12 12:06	1
Antimony 125	0.101	J	0.024	0.026	0.063	pCi/g	12/05/12 00:00	12/05/12 12:06	1
Bismuth 212	0.85	J	0.18	0.20	0.17	pCi/g	12/05/12 00:00	12/05/12 12:06	1
Bismuth 214	0.718	J	0.061	0.096	0.053	pCi/g	12/05/12 00:00	12/05/12 12:06	1
Cesium 134	0.012	U	0.013	0.013	0.054	pCi/g	12/05/12 00:00	12/05/12 12:06	1
Cesium 137	0.0005	U	0.016	0.016	0.027	pCi/g	12/05/12 00:00	12/05/12 12:06	1
Cobalt 60	0.0005	U	0.0070	0.0070	0.034	pCi/g	12/05/12 00:00	12/05/12 12:06	1
Europium 152	-0.001	U	0.035	0.035	0.059	pCi/g	12/05/12 00:00	12/05/12 12:06	1
Europium 154	0.023	U	0.036	0.036	0.11	pCi/g	12/05/12 00:00	12/05/12 12:06	1
Europium 155	0.055	J	0.044	0.044	0.072	pCi/g	12/05/12 00:00	12/05/12 12:06	1
Lead 212	1.19		0.04	0.16	0.04	pCi/g	12/05/12 00:00	12/05/12 12:06	1
Lead 214	0.742	J	0.049	0.091	0.045	pCi/g	12/05/12 00:00	12/05/12 12:06	1
Potassium 40	20.2		0.6	2.2	0.3	pCi/g	12/05/12 00:00	12/05/12 12:06	1
Protactinium 231	0.13	U	0.51	0.51	0.85	pCi/g	12/05/12 00:00	12/05/12 12:06	1
Radium (226)	0.718	J	0.061	0.096	0.053	pCi/g	12/05/12 00:00	12/05/12 12:06	1
Sodium 22	0.009	U	0.016	0.016	0.026	pCi/g	12/05/12 00:00	12/05/12 12:06	1
Thallium 208	0.400	J	0.025	0.049	0.022	pCi/g	12/05/12 00:00	12/05/12 12:06	1
Actinium 227	0.084	U	0.072	0.073	0.25	pCi/g	12/05/12 00:00	12/05/12 12:06	1

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Analyte	Result	Qualifier	Count Uncert. (2.000σ+/-)	Total Uncert. (2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Strontium Total	0.048	J	0.028	0.028	0.042	pCi/g	07/01/13 00:00	07/12/13 05:42	1
Tracer	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Sr Tracer	79		40 - 110				07/01/13 00:00	07/12/13 05:42	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_6S6

Lab Sample ID: 440-27479-6

Date Collected: 10/22/12 14:05

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		10	2.5	ug/Kg			10/26/12 03:28	1
Styrene	ND		10	2.9	ug/Kg			10/26/12 03:28	1
cis-1,3-Dichloropropene	ND		10	2.2	ug/Kg			10/26/12 03:28	1
trans-1,3-Dichloropropene	ND		10	3.1	ug/Kg			10/26/12 03:28	1
N-Propylbenzene	ND		10	3.1	ug/Kg			10/26/12 03:28	1
n-Butylbenzene	ND		25	3.6	ug/Kg			10/26/12 03:28	1
4-Chlorotoluene	ND		25	3.7	ug/Kg			10/26/12 03:28	1
1,4-Dichlorobenzene	ND		10	4.7	ug/Kg			10/26/12 03:28	1
1,2-Dibromoethane (EDB)	ND		10	4.0	ug/Kg			10/26/12 03:28	1
1,2-Dichloroethane	ND		10	4.0	ug/Kg			10/26/12 03:28	1
4-Methyl-2-pentanone (MIBK)	ND		25	23	ug/Kg			10/26/12 03:28	1
1,3,5-Trimethylbenzene	ND		10	3.2	ug/Kg			10/26/12 03:28	1
Bromobenzene	ND		25	4.2	ug/Kg			10/26/12 03:28	1
Toluene	ND		10	2.5	ug/Kg			10/26/12 03:28	1
Chlorobenzene	ND		10	2.6	ug/Kg			10/26/12 03:28	1
1,2,4-Trichlorobenzene	ND		25	5.0	ug/Kg			10/26/12 03:28	1
Dibromochloromethane	ND		10	3.5	ug/Kg			10/26/12 03:28	1
Tetrachloroethene	ND		10	2.5	ug/Kg			10/26/12 03:28	1
sec-Butylbenzene	ND		25	3.4	ug/Kg			10/26/12 03:28	1
m,p-Xylene	ND		10	4.0	ug/Kg			10/26/12 03:28	1
1,3-Dichloropropane	ND		10	3.2	ug/Kg			10/26/12 03:28	1
cis-1,2-Dichloroethene	ND		10	4.2	ug/Kg			10/26/12 03:28	1
trans-1,2-Dichloroethene	ND		10	3.5	ug/Kg			10/26/12 03:28	1
Methyl-t-Butyl Ether (MTBE)	ND		25	5.0	ug/Kg			10/26/12 03:28	1
1,3-Dichlorobenzene	ND		10	4.2	ug/Kg			10/26/12 03:28	1
Carbon tetrachloride	ND *		25	2.5	ug/Kg			10/26/12 03:28	1
1,1-Dichloropropene	ND		10	2.0	ug/Kg			10/26/12 03:28	1
2-Hexanone	ND		130	46	ug/Kg			10/26/12 03:28	1
2,2-Dichloropropane	ND		10	3.0	ug/Kg			10/26/12 03:28	1
1,1,1,2-Tetrachloroethane	ND *		25	2.9	ug/Kg			10/26/12 03:28	1
Acetone	ND		50	40	ug/Kg			10/26/12 03:28	1
Chloroform	ND		10	2.5	ug/Kg			10/26/12 03:28	1
Benzene	ND		10	2.5	ug/Kg			10/26/12 03:28	1
1,1,1-Trichloroethane	ND		10	3.5	ug/Kg			10/26/12 03:28	1
Bromomethane	ND		25	4.6	ug/Kg			10/26/12 03:28	1
Chloromethane	ND		25	5.0	ug/Kg			10/26/12 03:28	1
Dibromomethane	ND		10	4.5	ug/Kg			10/26/12 03:28	1
Bromochloromethane	ND		25	4.5	ug/Kg			10/26/12 03:28	1
Chloroethane	ND		25	7.5	ug/Kg			10/26/12 03:28	1
Vinyl chloride	ND		25	4.6	ug/Kg			10/26/12 03:28	1
Methylene Chloride	ND		100	33	ug/Kg			10/26/12 03:28	1
Carbon disulfide	ND		25	4.9	ug/Kg			10/26/12 03:28	1
Bromoform	ND		25	4.0	ug/Kg			10/26/12 03:28	1
Bromodichloromethane	ND		10	2.5	ug/Kg			10/26/12 03:28	1
1,1-Dichloroethane	ND		10	2.5	ug/Kg			10/26/12 03:28	1
1,1-Dichloroethene	ND		25	3.0	ug/Kg			10/26/12 03:28	1
Trichlorofluoromethane	ND		25	2.7	ug/Kg			10/26/12 03:28	1
Dichlorodifluoromethane	ND		25	7.5	ug/Kg			10/26/12 03:28	1
1,2-Dichloropropane	ND		10	4.0	ug/Kg			10/26/12 03:28	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_6S6

Lab Sample ID: 440-27479-6

Date Collected: 10/22/12 14:05

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		50	30	ug/Kg			10/26/12 03:28	1
1,1,2-Trichloroethane	ND		10	4.4	ug/Kg			10/26/12 03:28	1
Trichloroethene	ND		10	2.5	ug/Kg			10/26/12 03:28	1
1,1,2,2-Tetrachloroethane	ND		10	4.3	ug/Kg			10/26/12 03:28	1
1,2,3-Trichlorobenzene	ND		25	5.0	ug/Kg			10/26/12 03:28	1
Hexachlorobutadiene	ND		25	4.0	ug/Kg			10/26/12 03:28	1
Naphthalene	ND		25	5.5	ug/Kg			10/26/12 03:28	1
o-Xylene	ND		10	2.5	ug/Kg			10/26/12 03:28	1
2-Chlorotoluene	ND		25	4.4	ug/Kg			10/26/12 03:28	1
1,2-Dichlorobenzene	ND		10	4.8	ug/Kg			10/26/12 03:28	1
1,2,4-Trimethylbenzene	ND		10	3.9	ug/Kg			10/26/12 03:28	1
1,2-Dibromo-3-Chloropropane	ND		25	7.5	ug/Kg			10/26/12 03:28	1
1,2,3-Trichloropropane	ND		50	5.0	ug/Kg			10/26/12 03:28	1
tert-Butylbenzene	ND		25	3.1	ug/Kg			10/26/12 03:28	1
Isopropylbenzene	ND		10	2.7	ug/Kg			10/26/12 03:28	1
p-Isopropyltoluene	ND		10	3.6	ug/Kg			10/26/12 03:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		80 - 120					10/26/12 03:28	1
4-Bromofluorobenzene (Surr)	99		80 - 120					10/26/12 03:28	1
Dibromofluoromethane (Surr)	118		80 - 125					10/26/12 03:28	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 01:37	1
Aroclor 1221	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 01:37	1
Aroclor 1232	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 01:37	1
Aroclor 1242	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 01:37	1
Aroclor 1248	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 01:37	1
Aroclor 1254	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 01:37	1
Aroclor 1260	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 01:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	80		45 - 120				10/25/12 06:56	10/26/12 01:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	1.2	mg/Kg		10/25/12 11:13	10/26/12 19:45	5
Arsenic	6.2		2.0	0.82	mg/Kg		10/25/12 11:13	10/26/12 19:45	5
Barium	64		1.0	0.81	mg/Kg		10/25/12 11:13	10/26/12 19:45	5
Beryllium	0.52		0.51	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:45	5
Cadmium	ND		0.51	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:45	5
Chromium	14		1.0	0.30	mg/Kg		10/25/12 11:13	10/26/12 19:45	5
Cobalt	3.9		1.0	0.30	mg/Kg		10/25/12 11:13	10/26/12 19:45	5
Copper	7.2		2.0	0.38	mg/Kg		10/25/12 11:13	10/26/12 19:45	5
Lead	6.5		2.0	0.51	mg/Kg		10/25/12 11:13	10/26/12 19:45	5
Molybdenum	1.1	J	2.0	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:45	5
Nickel	9.4		2.0	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:45	5
Selenium	ND		2.0	1.0	mg/Kg		10/25/12 11:13	10/26/12 19:45	5
Thallium	ND		10	0.81	mg/Kg		10/25/12 11:13	10/26/12 19:45	5

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_6S6

Lab Sample ID: 440-27479-6

Date Collected: 10/22/12 14:05

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	27		1.0	0.30	mg/Kg		10/25/12 11:13	10/26/12 19:45	5
Zinc	180		5.1	0.51	mg/Kg		10/25/12 11:13	10/26/12 19:45	5
Silver	ND		1.0	0.81	mg/Kg		10/25/12 11:13	10/26/12 19:45	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.47		0.020	0.012	mg/Kg		10/28/12 15:40	10/29/12 16:34	1

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Tritium	-0.14	U	0.10	0.10	0.25	pCi/g	12/05/12 00:00	12/05/12 15:21	1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Uranium 234	0.75		0.13	0.14	0.03	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Uranium 235/236	0.039		0.032	0.032	0.018	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Uranium 238	0.76		0.13	0.14	0.03	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Tracer	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Uranium-232	65		30 - 110				11/09/12 00:00	11/13/12 20:19	1

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Actinium 228	1.18		0.07	0.14	0.1	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Antimony 125	0.119	J	0.032	0.035	0.061	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Bismuth 212	0.86	J	0.17	0.20	0.16	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Bismuth 214	0.645	J	0.053	0.085	0.045	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Cesium 134	0.029	J	0.018	0.018	0.017	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Cesium 137	0.009	U	0.016	0.016	0.026	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Cobalt 60	0.012	J	0.012	0.013	0.025	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Europium 152	-0.023	U	0.040	0.040	0.067	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Europium 154	-0.062	U	0.087	0.087	0.14	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Europium 155	0.077	J	0.044	0.045	0.057	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Lead 212	1.15		0.04	0.15	0.03	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Lead 214	0.731	J	0.050	0.091	0.042	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Potassium 40	19.8		0.6	2.1	0.2	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Protactinium 231	0.07	U	0.11	0.11	1.1	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Radium (226)	0.645	J	0.053	0.085	0.045	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Sodium 22	0.0	U	0.012	0.012	0.034	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Thallium 208	0.387	J	0.027	0.048	0.022	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Actinium 227	-0.01	U	0.13	0.13	0.22	pCi/g	12/05/12 00:00	12/05/12 12:04	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_6S6

Lab Sample ID: 440-27479-6

Date Collected: 10/22/12 14:05

Matrix: Solid

Date Received: 10/22/12 19:25

Percent Solids: 95.6

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Strontium Total	0.01	U	0.029	0.029	0.048	pCi/g	07/01/13 00:00	07/12/13 05:42	1
Tracer	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Sr Tracer	79		40 - 110				07/01/13 00:00	07/12/13 05:42	1

Client Sample ID: 125727_7S7

Lab Sample ID: 440-27479-7

Date Collected: 10/22/12 15:19

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		10	2.5	ug/Kg			10/26/12 03:56	1
Styrene	ND		10	2.9	ug/Kg			10/26/12 03:56	1
cis-1,3-Dichloropropene	ND		10	2.2	ug/Kg			10/26/12 03:56	1
trans-1,3-Dichloropropene	ND		10	3.1	ug/Kg			10/26/12 03:56	1
N-Propylbenzene	ND		10	3.1	ug/Kg			10/26/12 03:56	1
n-Butylbenzene	ND		25	3.6	ug/Kg			10/26/12 03:56	1
4-Chlorotoluene	ND		25	3.7	ug/Kg			10/26/12 03:56	1
1,4-Dichlorobenzene	ND		10	4.7	ug/Kg			10/26/12 03:56	1
1,2-Dibromoethane (EDB)	ND		10	4.0	ug/Kg			10/26/12 03:56	1
1,2-Dichloroethane	ND		10	4.0	ug/Kg			10/26/12 03:56	1
4-Methyl-2-pentanone (MIBK)	ND		25	23	ug/Kg			10/26/12 03:56	1
1,3,5-Trimethylbenzene	ND		10	3.2	ug/Kg			10/26/12 03:56	1
Bromobenzene	ND		25	4.2	ug/Kg			10/26/12 03:56	1
Toluene	ND		10	2.5	ug/Kg			10/26/12 03:56	1
Chlorobenzene	ND		10	2.6	ug/Kg			10/26/12 03:56	1
1,2,4-Trichlorobenzene	ND		25	5.0	ug/Kg			10/26/12 03:56	1
Dibromochloromethane	ND		10	3.5	ug/Kg			10/26/12 03:56	1
Tetrachloroethene	ND		10	2.5	ug/Kg			10/26/12 03:56	1
sec-Butylbenzene	ND		25	3.4	ug/Kg			10/26/12 03:56	1
m,p-Xylene	ND		10	4.0	ug/Kg			10/26/12 03:56	1
1,3-Dichloropropane	ND		10	3.2	ug/Kg			10/26/12 03:56	1
cis-1,2-Dichloroethene	ND		10	4.2	ug/Kg			10/26/12 03:56	1
trans-1,2-Dichloroethene	ND		10	3.5	ug/Kg			10/26/12 03:56	1
Methyl-t-Butyl Ether (MTBE)	ND		25	5.0	ug/Kg			10/26/12 03:56	1
1,3-Dichlorobenzene	ND		10	4.2	ug/Kg			10/26/12 03:56	1
Carbon tetrachloride	ND *		25	2.5	ug/Kg			10/26/12 03:56	1
1,1-Dichloropropene	ND		10	2.0	ug/Kg			10/26/12 03:56	1
2-Hexanone	ND		130	46	ug/Kg			10/26/12 03:56	1
2,2-Dichloropropane	ND		10	3.0	ug/Kg			10/26/12 03:56	1
1,1,1,2-Tetrachloroethane	ND *		25	2.9	ug/Kg			10/26/12 03:56	1
Acetone	ND		50	40	ug/Kg			10/26/12 03:56	1
Chloroform	ND		10	2.5	ug/Kg			10/26/12 03:56	1
Benzene	ND		10	2.5	ug/Kg			10/26/12 03:56	1
1,1,1-Trichloroethane	ND		10	3.5	ug/Kg			10/26/12 03:56	1
Bromomethane	ND		25	4.6	ug/Kg			10/26/12 03:56	1
Chloromethane	ND		25	5.0	ug/Kg			10/26/12 03:56	1
Dibromomethane	ND		10	4.5	ug/Kg			10/26/12 03:56	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_7S7

Lab Sample ID: 440-27479-7

Date Collected: 10/22/12 15:19

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		25	4.5	ug/Kg			10/26/12 03:56	1
Chloroethane	ND		25	7.5	ug/Kg			10/26/12 03:56	1
Vinyl chloride	ND		25	4.6	ug/Kg			10/26/12 03:56	1
Methylene Chloride	ND		100	33	ug/Kg			10/26/12 03:56	1
Carbon disulfide	ND		25	4.9	ug/Kg			10/26/12 03:56	1
Bromoform	ND		25	4.0	ug/Kg			10/26/12 03:56	1
Bromodichloromethane	ND		10	2.5	ug/Kg			10/26/12 03:56	1
1,1-Dichloroethane	ND		10	2.5	ug/Kg			10/26/12 03:56	1
1,1-Dichloroethene	ND		25	3.0	ug/Kg			10/26/12 03:56	1
Trichlorofluoromethane	ND		25	2.7	ug/Kg			10/26/12 03:56	1
Dichlorodifluoromethane	ND		25	7.5	ug/Kg			10/26/12 03:56	1
1,2-Dichloropropane	ND		10	4.0	ug/Kg			10/26/12 03:56	1
2-Butanone (MEK)	ND		50	30	ug/Kg			10/26/12 03:56	1
1,1,1-Trichloroethane	ND		10	4.4	ug/Kg			10/26/12 03:56	1
Trichloroethene	ND		10	2.5	ug/Kg			10/26/12 03:56	1
1,1,1,2-Tetrachloroethane	ND		10	4.3	ug/Kg			10/26/12 03:56	1
1,2,3-Trichlorobenzene	ND		25	5.0	ug/Kg			10/26/12 03:56	1
Hexachlorobutadiene	ND		25	4.0	ug/Kg			10/26/12 03:56	1
Naphthalene	ND		25	5.5	ug/Kg			10/26/12 03:56	1
o-Xylene	ND		10	2.5	ug/Kg			10/26/12 03:56	1
2-Chlorotoluene	ND		25	4.4	ug/Kg			10/26/12 03:56	1
1,2-Dichlorobenzene	ND		10	4.8	ug/Kg			10/26/12 03:56	1
1,2,4-Trimethylbenzene	ND		10	3.9	ug/Kg			10/26/12 03:56	1
1,2-Dibromo-3-Chloropropane	ND		25	7.5	ug/Kg			10/26/12 03:56	1
1,2,3-Trichloropropane	ND		50	5.0	ug/Kg			10/26/12 03:56	1
tert-Butylbenzene	ND		25	3.1	ug/Kg			10/26/12 03:56	1
Isopropylbenzene	ND		10	2.7	ug/Kg			10/26/12 03:56	1
p-Isopropyltoluene	ND		10	3.6	ug/Kg			10/26/12 03:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 120					10/26/12 03:56	1
4-Bromofluorobenzene (Surr)	103		80 - 120					10/26/12 03:56	1
Dibromofluoromethane (Surr)	120		80 - 125					10/26/12 03:56	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 01:52	1
Aroclor 1221	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 01:52	1
Aroclor 1232	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 01:52	1
Aroclor 1242	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 01:52	1
Aroclor 1248	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 01:52	1
Aroclor 1254	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 01:52	1
Aroclor 1260	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 01:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	84		45 - 120				10/25/12 06:56	10/26/12 01:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	1.2	mg/Kg		10/25/12 11:13	10/26/12 19:47	5

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_7S7

Lab Sample ID: 440-27479-7

Date Collected: 10/22/12 15:19

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.1		2.0	0.82	mg/Kg		10/25/12 11:13	10/26/12 19:47	5
Barium	71		1.0	0.81	mg/Kg		10/25/12 11:13	10/26/12 19:47	5
Beryllium	0.31	J	0.51	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:47	5
Cadmium	ND		0.51	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:47	5
Chromium	9.0		1.0	0.30	mg/Kg		10/25/12 11:13	10/26/12 19:47	5
Cobalt	3.5		1.0	0.30	mg/Kg		10/25/12 11:13	10/26/12 19:47	5
Copper	10		2.0	0.38	mg/Kg		10/25/12 11:13	10/26/12 19:47	5
Lead	3.2		2.0	0.51	mg/Kg		10/25/12 11:13	10/26/12 19:47	5
Molybdenum	1.1	J	2.0	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:47	5
Nickel	5.4		2.0	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:47	5
Selenium	ND		2.0	1.0	mg/Kg		10/25/12 11:13	10/26/12 19:47	5
Thallium	ND		10	0.81	mg/Kg		10/25/12 11:13	10/26/12 19:47	5
Vanadium	30		1.0	0.30	mg/Kg		10/25/12 11:13	10/26/12 19:47	5
Zinc	47		5.1	0.51	mg/Kg		10/25/12 11:13	10/26/12 19:47	5
Silver	ND		1.0	0.81	mg/Kg		10/25/12 11:13	10/26/12 19:47	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.3		0.098	0.059	mg/Kg		10/28/12 15:40	10/29/12 20:20	5

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Tritium	0.02	U	0.14	0.14	0.25	pCi/g	12/05/12 00:00	12/05/12 15:45	1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Uranium 234	0.298		0.076	0.080	0.036	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Uranium 235/236	0.016		0.024	0.024	0.040	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Uranium 238	0.243		0.068	0.071	0.021	pCi/g	11/09/12 00:00	11/13/12 20:19	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	68		30 - 110	11/09/12 00:00	11/13/12 20:19	1

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Actinium 228	0.94	J	0.07	0.12	0.13	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Antimony 125	0.080	J	0.031	0.033	0.062	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Bismuth 212	0.61	J	0.17	0.19	0.17	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Bismuth 214	0.390	J	0.046	0.061	0.044	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Cesium 134	-0.020	U	0.017	0.017	0.027	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Cesium 137	-0.006	U	0.016	0.016	0.026	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Cobalt 60	-0.00001	U	0.012	0.012	0.021	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Europium 152	0.012	U	0.021	0.021	0.064	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Europium 154	0.043	U	0.079	0.080	0.15	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Europium 155	0.032	U	0.043	0.044	0.072	pCi/g	12/05/12 00:00	12/05/12 12:04	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_7S7

Lab Sample ID: 440-27479-7

Date Collected: 10/22/12 15:19

Matrix: Solid

Date Received: 10/22/12 19:25

Percent Solids: 83

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD (Continued)

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Lead 212	0.94	J	0.04	0.13	0.04	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Lead 214	0.446	J	0.039	0.061	0.044	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Potassium 40	20.8		0.7	2.2	0.3	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Protactinium 231	0.009	U	0.64	0.64	1.1	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Radium (226)	0.390	J	0.046	0.061	0.044	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Sodium 22	0.003	U	0.019	0.019	0.032	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Thallium 208	0.324	J	0.033	0.047	0.028	pCi/g	12/05/12 00:00	12/05/12 12:04	1
Actinium 227	-0.04	U	0.15	0.15	0.25	pCi/g	12/05/12 00:00	12/05/12 12:04	1

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Strontium Total	-0.002	U	0.026	0.026	0.045	pCi/g	07/01/13 00:00	07/12/13 05:42	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Sr Tracer	87		40 - 110	07/01/13 00:00	07/12/13 05:42	1

Client Sample ID: 125727_6S8

Lab Sample ID: 440-27479-8

Date Collected: 10/22/12 14:20

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		10	2.6	ug/Kg			10/26/12 04:23	1
Styrene	ND		10	3.0	ug/Kg			10/26/12 04:23	1
cis-1,3-Dichloropropene	ND		10	2.3	ug/Kg			10/26/12 04:23	1
trans-1,3-Dichloropropene	ND		10	3.1	ug/Kg			10/26/12 04:23	1
N-Propylbenzene	ND		10	3.1	ug/Kg			10/26/12 04:23	1
n-Butylbenzene	ND		26	3.7	ug/Kg			10/26/12 04:23	1
4-Chlorotoluene	ND		26	3.8	ug/Kg			10/26/12 04:23	1
1,4-Dichlorobenzene	ND		10	4.8	ug/Kg			10/26/12 04:23	1
1,2-Dibromoethane (EDB)	ND		10	4.1	ug/Kg			10/26/12 04:23	1
1,2-Dichloroethane	ND		10	4.1	ug/Kg			10/26/12 04:23	1
4-Methyl-2-pentanone (MIBK)	ND		26	23	ug/Kg			10/26/12 04:23	1
1,3,5-Trimethylbenzene	ND		10	3.2	ug/Kg			10/26/12 04:23	1
Bromobenzene	ND		26	4.3	ug/Kg			10/26/12 04:23	1
Toluene	ND		10	2.6	ug/Kg			10/26/12 04:23	1
Chlorobenzene	ND		10	2.7	ug/Kg			10/26/12 04:23	1
1,2,4-Trichlorobenzene	ND		26	5.2	ug/Kg			10/26/12 04:23	1
Dibromochloromethane	ND		10	3.6	ug/Kg			10/26/12 04:23	1
Tetrachloroethene	ND		10	2.5	ug/Kg			10/26/12 04:23	1
sec-Butylbenzene	ND		26	3.5	ug/Kg			10/26/12 04:23	1
m,p-Xylene	ND		10	4.1	ug/Kg			10/26/12 04:23	1
1,3-Dichloropropane	ND		10	3.2	ug/Kg			10/26/12 04:23	1
cis-1,2-Dichloroethene	ND		10	4.3	ug/Kg			10/26/12 04:23	1
trans-1,2-Dichloroethene	ND		10	3.6	ug/Kg			10/26/12 04:23	1
Methyl-t-Butyl Ether (MTBE)	ND		26	5.2	ug/Kg			10/26/12 04:23	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_6S8

Lab Sample ID: 440-27479-8

Date Collected: 10/22/12 14:20

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		10	4.3	ug/Kg			10/26/12 04:23	1
Carbon tetrachloride	ND	*	26	2.6	ug/Kg			10/26/12 04:23	1
1,1-Dichloropropene	ND		10	2.1	ug/Kg			10/26/12 04:23	1
2-Hexanone	ND		130	47	ug/Kg			10/26/12 04:23	1
2,2-Dichloropropane	ND		10	3.1	ug/Kg			10/26/12 04:23	1
1,1,1,2-Tetrachloroethane	ND	*	26	2.9	ug/Kg			10/26/12 04:23	1
Acetone	ND		52	41	ug/Kg			10/26/12 04:23	1
Chloroform	ND		10	2.6	ug/Kg			10/26/12 04:23	1
Benzene	ND		10	2.6	ug/Kg			10/26/12 04:23	1
1,1,1-Trichloroethane	ND		10	3.6	ug/Kg			10/26/12 04:23	1
Bromomethane	ND		26	4.7	ug/Kg			10/26/12 04:23	1
Chloromethane	ND		26	5.2	ug/Kg			10/26/12 04:23	1
Dibromomethane	ND		10	4.6	ug/Kg			10/26/12 04:23	1
Bromochloromethane	ND		26	4.6	ug/Kg			10/26/12 04:23	1
Chloroethane	ND		26	7.7	ug/Kg			10/26/12 04:23	1
Vinyl chloride	ND		26	4.7	ug/Kg			10/26/12 04:23	1
Methylene Chloride	ND		100	34	ug/Kg			10/26/12 04:23	1
Carbon disulfide	ND		26	5.0	ug/Kg			10/26/12 04:23	1
Bromoform	ND		26	4.1	ug/Kg			10/26/12 04:23	1
Bromodichloromethane	ND		10	2.6	ug/Kg			10/26/12 04:23	1
1,1-Dichloroethane	ND		10	2.6	ug/Kg			10/26/12 04:23	1
1,1-Dichloroethene	ND		26	3.1	ug/Kg			10/26/12 04:23	1
Trichlorofluoromethane	ND		26	2.8	ug/Kg			10/26/12 04:23	1
Dichlorodifluoromethane	ND		26	7.7	ug/Kg			10/26/12 04:23	1
1,2-Dichloropropane	ND		10	4.1	ug/Kg			10/26/12 04:23	1
2-Butanone (MEK)	ND		52	31	ug/Kg			10/26/12 04:23	1
1,1,2-Trichloroethane	ND		10	4.5	ug/Kg			10/26/12 04:23	1
Trichloroethene	ND		10	2.6	ug/Kg			10/26/12 04:23	1
1,1,2,2-Tetrachloroethane	ND		10	4.4	ug/Kg			10/26/12 04:23	1
1,2,3-Trichlorobenzene	ND		26	5.2	ug/Kg			10/26/12 04:23	1
Hexachlorobutadiene	ND		26	4.1	ug/Kg			10/26/12 04:23	1
Naphthalene	ND		26	5.7	ug/Kg			10/26/12 04:23	1
o-Xylene	ND		10	2.6	ug/Kg			10/26/12 04:23	1
2-Chlorotoluene	ND		26	4.5	ug/Kg			10/26/12 04:23	1
1,2-Dichlorobenzene	ND		10	4.9	ug/Kg			10/26/12 04:23	1
1,2,4-Trimethylbenzene	ND		10	4.0	ug/Kg			10/26/12 04:23	1
1,2-Dibromo-3-Chloropropane	ND		26	7.7	ug/Kg			10/26/12 04:23	1
1,2,3-Trichloropropane	ND		52	5.2	ug/Kg			10/26/12 04:23	1
tert-Butylbenzene	ND		26	3.2	ug/Kg			10/26/12 04:23	1
Isopropylbenzene	ND		10	2.8	ug/Kg			10/26/12 04:23	1
p-Isopropyltoluene	ND		10	3.7	ug/Kg			10/26/12 04:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 120		10/26/12 04:23	1
4-Bromofluorobenzene (Surr)	104		80 - 120		10/26/12 04:23	1
Dibromofluoromethane (Surr)	114		80 - 125		10/26/12 04:23	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 02:07	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_6S8

Lab Sample ID: 440-27479-8

Date Collected: 10/22/12 14:20

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1221	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 02:07	1
Aroclor 1232	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 02:07	1
Aroclor 1242	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 02:07	1
Aroclor 1248	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 02:07	1
Aroclor 1254	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 02:07	1
Aroclor 1260	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 02:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	78		45 - 120	10/25/12 06:56	10/26/12 02:07	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J	9.8	1.1	mg/Kg		10/25/12 11:13	10/26/12 19:48	5
Arsenic	8.8		2.0	0.79	mg/Kg		10/25/12 11:13	10/26/12 19:48	5
Barium	66		0.98	0.78	mg/Kg		10/25/12 11:13	10/26/12 19:48	5
Beryllium	0.53		0.49	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:48	5
Cadmium	0.29	J	0.49	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:48	5
Chromium	14		0.98	0.29	mg/Kg		10/25/12 11:13	10/26/12 19:48	5
Cobalt	3.6		0.98	0.29	mg/Kg		10/25/12 11:13	10/26/12 19:48	5
Copper	9.0		2.0	0.37	mg/Kg		10/25/12 11:13	10/26/12 19:48	5
Lead	5.3		2.0	0.49	mg/Kg		10/25/12 11:13	10/26/12 19:48	5
Molybdenum	1.2	J	2.0	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:48	5
Nickel	9.7		2.0	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:48	5
Selenium	ND		2.0	0.98	mg/Kg		10/25/12 11:13	10/26/12 19:48	5
Thallium	ND		9.8	0.78	mg/Kg		10/25/12 11:13	10/26/12 19:48	5
Vanadium	26		0.98	0.29	mg/Kg		10/25/12 11:13	10/26/12 19:48	5
Zinc	74		4.9	0.49	mg/Kg		10/25/12 11:13	10/26/12 19:48	5
Silver	ND		0.98	0.78	mg/Kg		10/25/12 11:13	10/26/12 19:48	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.020	0.012	mg/Kg		10/28/12 15:40	10/29/12 16:39	1

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Tritium	-0.05	U	0.12	0.12	0.24	pCi/g	12/05/12 00:00	12/05/12 16:08	1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Uranium 234	0.80		0.14	0.15	0.04	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Uranium 235/236	0.016		0.025	0.025	0.041	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Uranium 238	0.81		0.14	0.15	0.04	pCi/g	11/09/12 00:00	11/13/12 20:19	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	61		30 - 110	11/09/12 00:00	11/13/12 20:19	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_6S8

Lab Sample ID: 440-27479-8

Date Collected: 10/22/12 14:20

Matrix: Solid

Date Received: 10/22/12 19:25

Percent Solids: 94.5

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2.000σ+/-)	Uncert. (2.000σ+/-)					
Actinium 228	1.21		0.07	0.14	0.14	pCi/g	12/05/12 00:00	12/05/12 18:12	1
Antimony 125	0.014	U	0.033	0.033	0.060	pCi/g	12/05/12 00:00	12/05/12 18:12	1
Bismuth 212	0.78	J	0.17	0.19	0.18	pCi/g	12/05/12 00:00	12/05/12 18:12	1
Bismuth 214	0.737	J	0.057	0.096	0.049	pCi/g	12/05/12 00:00	12/05/12 18:12	1
Cesium 134	0.0092	U	0.0094	0.0095	0.044	pCi/g	12/05/12 00:00	12/05/12 18:12	1
Cesium 137	-0.008	U	0.014	0.014	0.023	pCi/g	12/05/12 00:00	12/05/12 18:12	1
Cobalt 60	0.0019	U	0.0024	0.0024	0.025	pCi/g	12/05/12 00:00	12/05/12 18:12	1
Europium 152	0.013	U	0.027	0.027	0.062	pCi/g	12/05/12 00:00	12/05/12 18:12	1
Europium 154	0.009	U	0.019	0.019	0.15	pCi/g	12/05/12 00:00	12/05/12 18:12	1
Europium 155	0.084	J	0.041	0.042	0.054	pCi/g	12/05/12 00:00	12/05/12 18:12	1
Lead 212	1.15		0.04	0.15	0.04	pCi/g	12/05/12 00:00	12/05/12 18:12	1
Lead 214	0.808	J	0.049	0.097	0.051	pCi/g	12/05/12 00:00	12/05/12 18:12	1
Potassium 40	19.9		0.6	2.1	0.2	pCi/g	12/05/12 00:00	12/05/12 18:12	1
Protactinium 231	0.01	U	0.61	0.61	1.0	pCi/g	12/05/12 00:00	12/05/12 18:12	1
Radium (226)	0.737	J	0.057	0.096	0.049	pCi/g	12/05/12 00:00	12/05/12 18:12	1
Sodium 22	0.003	U	0.015	0.015	0.025	pCi/g	12/05/12 00:00	12/05/12 18:12	1
Thallium 208	0.368	J	0.027	0.047	0.024	pCi/g	12/05/12 00:00	12/05/12 18:12	1
Actinium 227	0.04	U	0.17	0.17	0.22	pCi/g	12/05/12 00:00	12/05/12 18:12	1

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2.000σ+/-)	Uncert. (2.000σ+/-)					
Strontium Total	0.023	U	0.030	0.030	0.049	pCi/g	07/01/13 00:00	07/12/13 05:42	1
<i>Tracer</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Sr Tracer</i>	<i>80</i>		<i>40 - 110</i>				<i>07/01/13 00:00</i>	<i>07/12/13 05:42</i>	<i>1</i>

Client Sample ID: 125727_8S9

Lab Sample ID: 440-27479-9

Date Collected: 10/22/12 15:01

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.8	2.5	ug/Kg			10/26/12 04:51	1
Styrene	ND		9.8	2.8	ug/Kg			10/26/12 04:51	1
cis-1,3-Dichloropropene	ND		9.8	2.2	ug/Kg			10/26/12 04:51	1
trans-1,3-Dichloropropene	ND		9.8	3.0	ug/Kg			10/26/12 04:51	1
N-Propylbenzene	ND		9.8	3.0	ug/Kg			10/26/12 04:51	1
n-Butylbenzene	ND		25	3.5	ug/Kg			10/26/12 04:51	1
4-Chlorotoluene	ND		25	3.6	ug/Kg			10/26/12 04:51	1
1,4-Dichlorobenzene	ND		9.8	4.6	ug/Kg			10/26/12 04:51	1
1,2-Dibromoethane (EDB)	ND		9.8	3.9	ug/Kg			10/26/12 04:51	1
1,2-Dichloroethane	ND		9.8	3.9	ug/Kg			10/26/12 04:51	1
4-Methyl-2-pentanone (MIBK)	ND		25	22	ug/Kg			10/26/12 04:51	1
1,3,5-Trimethylbenzene	ND		9.8	3.1	ug/Kg			10/26/12 04:51	1
Bromobenzene	ND		25	4.1	ug/Kg			10/26/12 04:51	1
Toluene	ND		9.8	2.5	ug/Kg			10/26/12 04:51	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_8S9

Lab Sample ID: 440-27479-9

Date Collected: 10/22/12 15:01

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		9.8	2.5	ug/Kg			10/26/12 04:51	1
1,2,4-Trichlorobenzene	ND		25	4.9	ug/Kg			10/26/12 04:51	1
Dibromochloromethane	ND		9.8	3.4	ug/Kg			10/26/12 04:51	1
Tetrachloroethene	ND		9.8	2.4	ug/Kg			10/26/12 04:51	1
sec-Butylbenzene	ND		25	3.3	ug/Kg			10/26/12 04:51	1
m,p-Xylene	ND		9.8	3.9	ug/Kg			10/26/12 04:51	1
1,3-Dichloropropane	ND		9.8	3.1	ug/Kg			10/26/12 04:51	1
cis-1,2-Dichloroethene	ND		9.8	4.1	ug/Kg			10/26/12 04:51	1
trans-1,2-Dichloroethene	ND		9.8	3.4	ug/Kg			10/26/12 04:51	1
Methyl-t-Butyl Ether (MTBE)	ND		25	4.9	ug/Kg			10/26/12 04:51	1
1,3-Dichlorobenzene	ND		9.8	4.1	ug/Kg			10/26/12 04:51	1
Carbon tetrachloride	ND *		25	2.5	ug/Kg			10/26/12 04:51	1
1,1-Dichloropropene	ND		9.8	2.0	ug/Kg			10/26/12 04:51	1
2-Hexanone	ND		120	45	ug/Kg			10/26/12 04:51	1
2,2-Dichloropropane	ND		9.8	2.9	ug/Kg			10/26/12 04:51	1
1,1,1,2-Tetrachloroethane	ND *		25	2.8	ug/Kg			10/26/12 04:51	1
Acetone	ND		49	39	ug/Kg			10/26/12 04:51	1
Chloroform	ND		9.8	2.5	ug/Kg			10/26/12 04:51	1
Benzene	ND		9.8	2.5	ug/Kg			10/26/12 04:51	1
1,1,1-Trichloroethane	ND		9.8	3.4	ug/Kg			10/26/12 04:51	1
Bromomethane	ND		25	4.5	ug/Kg			10/26/12 04:51	1
Chloromethane	ND		25	4.9	ug/Kg			10/26/12 04:51	1
Dibromomethane	ND		9.8	4.4	ug/Kg			10/26/12 04:51	1
Bromochloromethane	ND		25	4.4	ug/Kg			10/26/12 04:51	1
Chloroethane	ND		25	7.4	ug/Kg			10/26/12 04:51	1
Vinyl chloride	ND		25	4.5	ug/Kg			10/26/12 04:51	1
Methylene Chloride	ND		98	32	ug/Kg			10/26/12 04:51	1
Carbon disulfide	ND		25	4.8	ug/Kg			10/26/12 04:51	1
Bromoform	ND		25	3.9	ug/Kg			10/26/12 04:51	1
Bromodichloromethane	ND		9.8	2.5	ug/Kg			10/26/12 04:51	1
1,1-Dichloroethane	ND		9.8	2.5	ug/Kg			10/26/12 04:51	1
1,1-Dichloroethene	ND		25	2.9	ug/Kg			10/26/12 04:51	1
Trichlorofluoromethane	ND		25	2.6	ug/Kg			10/26/12 04:51	1
Dichlorodifluoromethane	ND		25	7.4	ug/Kg			10/26/12 04:51	1
1,2-Dichloropropane	ND		9.8	3.9	ug/Kg			10/26/12 04:51	1
2-Butanone (MEK)	ND		49	29	ug/Kg			10/26/12 04:51	1
1,1,2-Trichloroethane	ND		9.8	4.3	ug/Kg			10/26/12 04:51	1
Trichloroethene	ND		9.8	2.5	ug/Kg			10/26/12 04:51	1
1,1,2,2-Tetrachloroethane	ND		9.8	4.2	ug/Kg			10/26/12 04:51	1
1,2,3-Trichlorobenzene	ND		25	4.9	ug/Kg			10/26/12 04:51	1
Hexachlorobutadiene	ND		25	3.9	ug/Kg			10/26/12 04:51	1
Naphthalene	ND		25	5.4	ug/Kg			10/26/12 04:51	1
o-Xylene	ND		9.8	2.5	ug/Kg			10/26/12 04:51	1
2-Chlorotoluene	ND		25	4.3	ug/Kg			10/26/12 04:51	1
1,2-Dichlorobenzene	ND		9.8	4.7	ug/Kg			10/26/12 04:51	1
1,2,4-Trimethylbenzene	ND		9.8	3.8	ug/Kg			10/26/12 04:51	1
1,2-Dibromo-3-Chloropropane	ND		25	7.4	ug/Kg			10/26/12 04:51	1
1,2,3-Trichloropropane	ND		49	4.9	ug/Kg			10/26/12 04:51	1
tert-Butylbenzene	ND		25	3.0	ug/Kg			10/26/12 04:51	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_8S9

Lab Sample ID: 440-27479-9

Date Collected: 10/22/12 15:01

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		9.8	2.6	ug/Kg			10/26/12 04:51	1
p-Isopropyltoluene	ND		9.8	3.5	ug/Kg			10/26/12 04:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		80 - 120					10/26/12 04:51	1
4-Bromofluorobenzene (Surr)	103		80 - 120					10/26/12 04:51	1
Dibromofluoromethane (Surr)	116		80 - 125					10/26/12 04:51	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 02:22	1
Aroclor 1221	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 02:22	1
Aroclor 1232	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 02:22	1
Aroclor 1242	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 02:22	1
Aroclor 1248	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 02:22	1
Aroclor 1254	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 02:22	1
Aroclor 1260	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 02:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	76		45 - 120				10/25/12 06:56	10/26/12 02:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J	10	1.1	mg/Kg		10/25/12 11:13	10/26/12 19:50	5
Arsenic	9.8		2.0	0.81	mg/Kg		10/25/12 11:13	10/26/12 19:50	5
Barium	46		1.0	0.80	mg/Kg		10/25/12 11:13	10/26/12 19:50	5
Beryllium	0.61		0.50	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:50	5
Cadmium	ND		0.50	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:50	5
Chromium	15		1.0	0.30	mg/Kg		10/25/12 11:13	10/26/12 19:50	5
Cobalt	4.3		1.0	0.30	mg/Kg		10/25/12 11:13	10/26/12 19:50	5
Copper	7.7		2.0	0.38	mg/Kg		10/25/12 11:13	10/26/12 19:50	5
Lead	3.7		2.0	0.50	mg/Kg		10/25/12 11:13	10/26/12 19:50	5
Molybdenum	0.98	J	2.0	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:50	5
Nickel	8.9		2.0	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:50	5
Selenium	ND		2.0	1.0	mg/Kg		10/25/12 11:13	10/26/12 19:50	5
Thallium	ND		10	0.80	mg/Kg		10/25/12 11:13	10/26/12 19:50	5
Vanadium	26		1.0	0.30	mg/Kg		10/25/12 11:13	10/26/12 19:50	5
Zinc	45		5.0	0.50	mg/Kg		10/25/12 11:13	10/26/12 19:50	5
Silver	ND		1.0	0.80	mg/Kg		10/25/12 11:13	10/26/12 19:50	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.020	0.012	mg/Kg		10/28/12 15:40	10/29/12 16:42	1

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Analyte	Result	Qualifier	Count		MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2.000σ+/-)	Total Uncert. (2.000σ+/-)					
Tritium	0.009	U	0.13	0.13	0.25	pCi/g	12/05/12 00:00	12/05/12 16:32	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_8S9

Lab Sample ID: 440-27479-9

Date Collected: 10/22/12 15:01

Matrix: Solid

Date Received: 10/22/12 19:25

Percent Solids: 94

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Uranium 234	1.01		0.14	0.17	0.03	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Uranium 235/236	0.037		0.031	0.031	0.017	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Uranium 238	0.96		0.14	0.16	0.02	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Tracer	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Uranium-232	69		30 - 110				11/09/12 00:00	11/13/12 20:19	1

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Actinium 228	1.18		0.11	0.17	0.21	pCi/g	12/05/12 00:00	12/05/12 18:11	1
Antimony 125	0.146	J	0.063	0.065	0.096	pCi/g	12/05/12 00:00	12/05/12 18:11	1
Bismuth 212	1.0	J	0.29	0.31	0.28	pCi/g	12/05/12 00:00	12/05/12 18:11	1
Bismuth 214	1.06		0.10	0.15	0.08	pCi/g	12/05/12 00:00	12/05/12 18:11	1
Cesium 134	0.029	J	0.023	0.023	0.027	pCi/g	12/05/12 00:00	12/05/12 18:11	1
Cesium 137	-0.008	U	0.027	0.027	0.045	pCi/g	12/05/12 00:00	12/05/12 18:11	1
Cobalt 60	0.0005	U	0.024	0.024	0.043	pCi/g	12/05/12 00:00	12/05/12 18:11	1
Europium 152	0.013	U	0.035	0.035	0.11	pCi/g	12/05/12 00:00	12/05/12 18:11	1
Europium 154	0.01	U	0.11	0.11	0.23	pCi/g	12/05/12 00:00	12/05/12 18:11	1
Europium 155	0.141	J	0.069	0.071	0.086	pCi/g	12/05/12 00:00	12/05/12 18:11	1
Lead 212	1.22		0.06	0.17	0.06	pCi/g	12/05/12 00:00	12/05/12 18:11	1
Lead 214	1.19		0.09	0.15	0.08	pCi/g	12/05/12 00:00	12/05/12 18:11	1
Potassium 40	19.4		0.9	2.2	0.4	pCi/g	12/05/12 00:00	12/05/12 18:11	1
Protactinium 231	0.3	U	1.1	1.1	1.8	pCi/g	12/05/12 00:00	12/05/12 18:11	1
Radium (226)	1.06		0.10	0.15	0.08	pCi/g	12/05/12 00:00	12/05/12 18:11	1
Sodium 22	0.009	U	0.027	0.027	0.045	pCi/g	12/05/12 00:00	12/05/12 18:11	1
Thallium 208	0.382	J	0.044	0.059	0.041	pCi/g	12/05/12 00:00	12/05/12 18:11	1
Actinium 227	0.06	U	0.26	0.26	0.43	pCi/g	12/05/12 00:00	12/05/12 18:11	1

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Strontium Total	0.036	J	0.026	0.027	0.042	pCi/g	07/01/13 00:00	07/12/13 05:42	1
Tracer	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Sr Tracer	81		40 - 110				07/01/13 00:00	07/12/13 05:42	1

Client Sample ID: 125727_5S10

Lab Sample ID: 440-27479-10

Date Collected: 10/22/12 13:53

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		10	2.5	ug/Kg			10/26/12 05:19	1
Styrene	ND		10	2.9	ug/Kg			10/26/12 05:19	1
cis-1,3-Dichloropropene	ND		10	2.2	ug/Kg			10/26/12 05:19	1
trans-1,3-Dichloropropene	ND		10	3.1	ug/Kg			10/26/12 05:19	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_5S10

Lab Sample ID: 440-27479-10

Date Collected: 10/22/12 13:53

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		10	3.1	ug/Kg			10/26/12 05:19	1
n-Butylbenzene	ND		25	3.6	ug/Kg			10/26/12 05:19	1
4-Chlorotoluene	ND		25	3.7	ug/Kg			10/26/12 05:19	1
1,4-Dichlorobenzene	ND		10	4.7	ug/Kg			10/26/12 05:19	1
1,2-Dibromoethane (EDB)	ND		10	4.0	ug/Kg			10/26/12 05:19	1
1,2-Dichloroethane	ND		10	4.0	ug/Kg			10/26/12 05:19	1
4-Methyl-2-pentanone (MIBK)	ND		25	23	ug/Kg			10/26/12 05:19	1
1,3,5-Trimethylbenzene	ND		10	3.2	ug/Kg			10/26/12 05:19	1
Bromobenzene	ND		25	4.2	ug/Kg			10/26/12 05:19	1
Toluene	ND		10	2.5	ug/Kg			10/26/12 05:19	1
Chlorobenzene	ND		10	2.6	ug/Kg			10/26/12 05:19	1
1,2,4-Trichlorobenzene	ND		25	5.1	ug/Kg			10/26/12 05:19	1
Dibromochloromethane	ND		10	3.5	ug/Kg			10/26/12 05:19	1
Tetrachloroethene	ND		10	2.5	ug/Kg			10/26/12 05:19	1
sec-Butylbenzene	ND		25	3.4	ug/Kg			10/26/12 05:19	1
m,p-Xylene	ND		10	4.0	ug/Kg			10/26/12 05:19	1
1,3-Dichloropropane	ND		10	3.2	ug/Kg			10/26/12 05:19	1
cis-1,2-Dichloroethene	ND		10	4.2	ug/Kg			10/26/12 05:19	1
trans-1,2-Dichloroethene	ND		10	3.5	ug/Kg			10/26/12 05:19	1
Methyl-t-Butyl Ether (MTBE)	ND		25	5.1	ug/Kg			10/26/12 05:19	1
1,3-Dichlorobenzene	ND		10	4.2	ug/Kg			10/26/12 05:19	1
Carbon tetrachloride	ND *		25	2.5	ug/Kg			10/26/12 05:19	1
1,1-Dichloropropene	ND		10	2.0	ug/Kg			10/26/12 05:19	1
2-Hexanone	ND		130	46	ug/Kg			10/26/12 05:19	1
2,2-Dichloropropane	ND		10	3.0	ug/Kg			10/26/12 05:19	1
1,1,1,2-Tetrachloroethane	ND *		25	2.9	ug/Kg			10/26/12 05:19	1
Acetone	ND		51	40	ug/Kg			10/26/12 05:19	1
Chloroform	ND		10	2.5	ug/Kg			10/26/12 05:19	1
Benzene	ND		10	2.5	ug/Kg			10/26/12 05:19	1
1,1,1-Trichloroethane	ND		10	3.5	ug/Kg			10/26/12 05:19	1
Bromomethane	ND		25	4.6	ug/Kg			10/26/12 05:19	1
Chloromethane	ND		25	5.1	ug/Kg			10/26/12 05:19	1
Dibromomethane	ND		10	4.5	ug/Kg			10/26/12 05:19	1
Bromochloromethane	ND		25	4.5	ug/Kg			10/26/12 05:19	1
Chloroethane	ND		25	7.6	ug/Kg			10/26/12 05:19	1
Vinyl chloride	ND		25	4.6	ug/Kg			10/26/12 05:19	1
Methylene Chloride	ND		100	33	ug/Kg			10/26/12 05:19	1
Carbon disulfide	ND		25	4.9	ug/Kg			10/26/12 05:19	1
Bromoform	ND		25	4.0	ug/Kg			10/26/12 05:19	1
Bromodichloromethane	ND		10	2.5	ug/Kg			10/26/12 05:19	1
1,1-Dichloroethane	ND		10	2.5	ug/Kg			10/26/12 05:19	1
1,1-Dichloroethene	ND		25	3.0	ug/Kg			10/26/12 05:19	1
Trichlorofluoromethane	ND		25	2.7	ug/Kg			10/26/12 05:19	1
Dichlorodifluoromethane	ND		25	7.6	ug/Kg			10/26/12 05:19	1
1,2-Dichloropropane	ND		10	4.0	ug/Kg			10/26/12 05:19	1
2-Butanone (MEK)	ND		51	30	ug/Kg			10/26/12 05:19	1
1,1,2-Trichloroethane	ND		10	4.4	ug/Kg			10/26/12 05:19	1
Trichloroethene	ND		10	2.5	ug/Kg			10/26/12 05:19	1
1,1,2,2-Tetrachloroethane	ND		10	4.3	ug/Kg			10/26/12 05:19	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_5S10

Lab Sample ID: 440-27479-10

Date Collected: 10/22/12 13:53

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		25	5.1	ug/Kg			10/26/12 05:19	1
Hexachlorobutadiene	ND		25	4.0	ug/Kg			10/26/12 05:19	1
Naphthalene	ND		25	5.6	ug/Kg			10/26/12 05:19	1
o-Xylene	ND		10	2.5	ug/Kg			10/26/12 05:19	1
2-Chlorotoluene	ND		25	4.4	ug/Kg			10/26/12 05:19	1
1,2-Dichlorobenzene	ND		10	4.8	ug/Kg			10/26/12 05:19	1
1,2,4-Trimethylbenzene	ND		10	3.9	ug/Kg			10/26/12 05:19	1
1,2-Dibromo-3-Chloropropane	ND		25	7.6	ug/Kg			10/26/12 05:19	1
1,2,3-Trichloropropane	ND		51	5.1	ug/Kg			10/26/12 05:19	1
tert-Butylbenzene	ND		25	3.1	ug/Kg			10/26/12 05:19	1
Isopropylbenzene	ND		10	2.7	ug/Kg			10/26/12 05:19	1
p-Isopropyltoluene	ND		10	3.6	ug/Kg			10/26/12 05:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	109		80 - 120					10/26/12 05:19	1
4-Bromofluorobenzene (Surr)	105		80 - 120					10/26/12 05:19	1
Dibromofluoromethane (Surr)	118		80 - 125					10/26/12 05:19	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 02:37	1
Aroclor 1221	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 02:37	1
Aroclor 1232	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 02:37	1
Aroclor 1242	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 02:37	1
Aroclor 1248	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 02:37	1
Aroclor 1254	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 02:37	1
Aroclor 1260	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 02:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	85		45 - 120				10/25/12 06:56	10/26/12 02:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.7	J	9.9	1.1	mg/Kg		10/25/12 11:13	10/26/12 19:59	5
Arsenic	12		2.0	0.80	mg/Kg		10/25/12 11:13	10/26/12 19:59	5
Barium	80		0.99	0.79	mg/Kg		10/25/12 11:13	10/26/12 19:59	5
Beryllium	0.85		0.50	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:59	5
Cadmium	0.22	J	0.50	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:59	5
Chromium	25		0.99	0.30	mg/Kg		10/25/12 11:13	10/26/12 19:59	5
Cobalt	5.5		0.99	0.30	mg/Kg		10/25/12 11:13	10/26/12 19:59	5
Copper	14		2.0	0.38	mg/Kg		10/25/12 11:13	10/26/12 19:59	5
Lead	5.7		2.0	0.50	mg/Kg		10/25/12 11:13	10/26/12 19:59	5
Molybdenum	1.5	J	2.0	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:59	5
Nickel	15		2.0	0.20	mg/Kg		10/25/12 11:13	10/26/12 19:59	5
Selenium	ND		2.0	0.99	mg/Kg		10/25/12 11:13	10/26/12 19:59	5
Thallium	ND		9.9	0.79	mg/Kg		10/25/12 11:13	10/26/12 19:59	5
Vanadium	33		0.99	0.30	mg/Kg		10/25/12 11:13	10/26/12 19:59	5
Zinc	55		5.0	0.50	mg/Kg		10/25/12 11:13	10/26/12 19:59	5
Silver	ND		0.99	0.79	mg/Kg		10/25/12 11:13	10/26/12 19:59	5

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_5S10

Lab Sample ID: 440-27479-10

Date Collected: 10/22/12 13:53

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.020	0.012	mg/Kg		10/28/12 15:40	10/29/12 16:44	1

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Analyte	Result	Qualifier	Count Uncert. (2.000σ+/-)	Total Uncert. (2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-0.06	U	0.13	0.13	0.26	pCi/g	12/05/12 00:00	12/05/12 16:56	1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Analyte	Result	Qualifier	Count Uncert. (2.000σ+/-)	Total Uncert. (2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium 234	0.60		0.11	0.12	0.02	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Uranium 235/236	0.057		0.038	0.038	0.017	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Uranium 238	0.52		0.10	0.11	0.03	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Tracer	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Uranium-232	69		30 - 110				11/09/12 00:00	11/13/12 20:19	1

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Analyte	Result	Qualifier	Count Uncert. (2.000σ+/-)	Total Uncert. (2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium 228	1.03		0.07	0.13	0.12	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Antimony 125	0.108	J	0.028	0.030	0.063	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Bismuth 212	0.69	J	0.15	0.16	0.14	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Bismuth 214	0.644	J	0.048	0.082	0.046	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Cesium 134	0.016	U	0.022	0.022	0.059	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Cesium 137	-0.0008	U	0.013	0.013	0.023	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Cobalt 60	0.0018	U	0.0049	0.0049	0.027	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Europium 152	-0.002	U	0.040	0.040	0.067	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Europium 154	0.013	U	0.091	0.091	0.15	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Europium 155	0.044	J	0.042	0.042	0.069	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Lead 212	1.03		0.04	0.14	0.04	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Lead 214	0.700	J	0.045	0.086	0.052	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Potassium 40	22.5		0.6	2.4	0.2	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Protactinium 231	-0.05	U	0.57	0.57	0.95	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Radium (226)	0.644	J	0.048	0.082	0.046	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Sodium 22	0.0006	U	0.017	0.017	0.029	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Thallium 208	0.296	J	0.026	0.041	0.024	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Actinium 227	0.024	U	0.047	0.047	0.25	pCi/g	12/05/12 00:00	12/05/12 18:13	1

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Analyte	Result	Qualifier	Count Uncert. (2.000σ+/-)	Total Uncert. (2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Strontium Total	-0.002	U	0.026	0.026	0.046	pCi/g	07/01/13 00:00	07/12/13 05:42	1
Tracer	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Sr Tracer	85		40 - 110				07/01/13 00:00	07/12/13 05:42	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_8S11

Lab Sample ID: 440-27479-11

Date Collected: 10/22/12 15:09

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.6	2.4	ug/Kg			10/26/12 13:56	1
Styrene	ND		9.6	2.8	ug/Kg			10/26/12 13:56	1
cis-1,3-Dichloropropene	ND		9.6	2.1	ug/Kg			10/26/12 13:56	1
trans-1,3-Dichloropropene	ND	*	9.6	2.9	ug/Kg			10/26/12 13:56	1
N-Propylbenzene	ND		9.6	2.9	ug/Kg			10/26/12 13:56	1
n-Butylbenzene	ND		24	3.5	ug/Kg			10/26/12 13:56	1
4-Chlorotoluene	ND		24	3.6	ug/Kg			10/26/12 13:56	1
1,4-Dichlorobenzene	ND		9.6	4.5	ug/Kg			10/26/12 13:56	1
1,2-Dibromoethane (EDB)	ND		9.6	3.8	ug/Kg			10/26/12 13:56	1
1,2-Dichloroethane	ND		9.6	3.8	ug/Kg			10/26/12 13:56	1
4-Methyl-2-pentanone (MIBK)	ND		24	22	ug/Kg			10/26/12 13:56	1
1,3,5-Trimethylbenzene	ND		9.6	3.0	ug/Kg			10/26/12 13:56	1
Bromobenzene	ND		24	4.0	ug/Kg			10/26/12 13:56	1
Toluene	ND		9.6	2.4	ug/Kg			10/26/12 13:56	1
Chlorobenzene	ND		9.6	2.5	ug/Kg			10/26/12 13:56	1
1,2,4-Trichlorobenzene	ND		24	4.8	ug/Kg			10/26/12 13:56	1
Dibromochloromethane	ND		9.6	3.4	ug/Kg			10/26/12 13:56	1
Tetrachloroethene	ND		9.6	2.4	ug/Kg			10/26/12 13:56	1
sec-Butylbenzene	ND		24	3.2	ug/Kg			10/26/12 13:56	1
m,p-Xylene	ND		9.6	3.8	ug/Kg			10/26/12 13:56	1
1,3-Dichloropropane	ND		9.6	3.0	ug/Kg			10/26/12 13:56	1
cis-1,2-Dichloroethene	ND		9.6	4.0	ug/Kg			10/26/12 13:56	1
trans-1,2-Dichloroethene	ND		9.6	3.4	ug/Kg			10/26/12 13:56	1
Methyl-t-Butyl Ether (MTBE)	ND		24	4.8	ug/Kg			10/26/12 13:56	1
1,3-Dichlorobenzene	ND		9.6	4.0	ug/Kg			10/26/12 13:56	1
Carbon tetrachloride	ND	*	24	2.4	ug/Kg			10/26/12 13:56	1
1,1-Dichloropropene	ND		9.6	1.9	ug/Kg			10/26/12 13:56	1
2-Hexanone	ND		120	44	ug/Kg			10/26/12 13:56	1
2,2-Dichloropropane	ND		9.6	2.9	ug/Kg			10/26/12 13:56	1
1,1,1,2-Tetrachloroethane	ND	*	24	2.7	ug/Kg			10/26/12 13:56	1
Acetone	ND		48	38	ug/Kg			10/26/12 13:56	1
Chloroform	ND		9.6	2.4	ug/Kg			10/26/12 13:56	1
Benzene	ND		9.6	2.4	ug/Kg			10/26/12 13:56	1
1,1,1-Trichloroethane	ND		9.6	3.4	ug/Kg			10/26/12 13:56	1
Bromomethane	ND		24	4.4	ug/Kg			10/26/12 13:56	1
Chloromethane	ND		24	4.8	ug/Kg			10/26/12 13:56	1
Dibromomethane	ND		9.6	4.3	ug/Kg			10/26/12 13:56	1
Bromochloromethane	ND		24	4.3	ug/Kg			10/26/12 13:56	1
Chloroethane	ND		24	7.2	ug/Kg			10/26/12 13:56	1
Vinyl chloride	ND		24	4.4	ug/Kg			10/26/12 13:56	1
Methylene Chloride	ND		96	31	ug/Kg			10/26/12 13:56	1
Carbon disulfide	ND		24	4.7	ug/Kg			10/26/12 13:56	1
Bromoform	ND		24	3.8	ug/Kg			10/26/12 13:56	1
Bromodichloromethane	ND		9.6	2.4	ug/Kg			10/26/12 13:56	1
1,1-Dichloroethane	ND		9.6	2.4	ug/Kg			10/26/12 13:56	1
1,1-Dichloroethene	ND		24	2.9	ug/Kg			10/26/12 13:56	1
Trichlorofluoromethane	ND		24	2.6	ug/Kg			10/26/12 13:56	1
Dichlorodifluoromethane	ND		24	7.2	ug/Kg			10/26/12 13:56	1
1,2-Dichloropropane	ND		9.6	3.8	ug/Kg			10/26/12 13:56	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_8S11

Lab Sample ID: 440-27479-11

Date Collected: 10/22/12 15:09

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		48	29	ug/Kg			10/26/12 13:56	1
1,1,2-Trichloroethane	ND		9.6	4.2	ug/Kg			10/26/12 13:56	1
Trichloroethene	ND		9.6	2.4	ug/Kg			10/26/12 13:56	1
1,1,2,2-Tetrachloroethane	ND		9.6	4.1	ug/Kg			10/26/12 13:56	1
1,2,3-Trichlorobenzene	ND		24	4.8	ug/Kg			10/26/12 13:56	1
Hexachlorobutadiene	ND		24	3.8	ug/Kg			10/26/12 13:56	1
Naphthalene	ND		24	5.3	ug/Kg			10/26/12 13:56	1
o-Xylene	ND		9.6	2.4	ug/Kg			10/26/12 13:56	1
2-Chlorotoluene	ND		24	4.2	ug/Kg			10/26/12 13:56	1
1,2-Dichlorobenzene	ND		9.6	4.6	ug/Kg			10/26/12 13:56	1
1,2,4-Trimethylbenzene	ND		9.6	3.8	ug/Kg			10/26/12 13:56	1
1,2-Dibromo-3-Chloropropane	ND		24	7.2	ug/Kg			10/26/12 13:56	1
1,2,3-Trichloropropane	ND		48	4.8	ug/Kg			10/26/12 13:56	1
tert-Butylbenzene	ND		24	3.0	ug/Kg			10/26/12 13:56	1
Isopropylbenzene	ND		9.6	2.6	ug/Kg			10/26/12 13:56	1
p-Isopropyltoluene	ND		9.6	3.5	ug/Kg			10/26/12 13:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120					10/26/12 13:56	1
4-Bromofluorobenzene (Surr)	99		80 - 120					10/26/12 13:56	1
Dibromofluoromethane (Surr)	116		80 - 125					10/26/12 13:56	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 02:52	1
Aroclor 1221	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 02:52	1
Aroclor 1232	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 02:52	1
Aroclor 1242	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 02:52	1
Aroclor 1248	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 02:52	1
Aroclor 1254	ND		50	12	ug/Kg		10/25/12 06:56	10/26/12 02:52	1
Aroclor 1260	33	J	50	12	ug/Kg		10/25/12 06:56	10/26/12 02:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	76		45 - 120				10/25/12 06:56	10/26/12 02:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.4	J	10	1.1	mg/Kg		10/25/12 11:13	10/26/12 20:00	5
Arsenic	4.0		2.0	0.81	mg/Kg		10/25/12 11:13	10/26/12 20:00	5
Barium	100		1.0	0.80	mg/Kg		10/25/12 11:13	10/26/12 20:00	5
Beryllium	0.33	J	0.50	0.20	mg/Kg		10/25/12 11:13	10/26/12 20:00	5
Cadmium	1.0		0.50	0.20	mg/Kg		10/25/12 11:13	10/26/12 20:00	5
Chromium	11		1.0	0.30	mg/Kg		10/25/12 11:13	10/26/12 20:00	5
Cobalt	4.6		1.0	0.30	mg/Kg		10/25/12 11:13	10/26/12 20:00	5
Copper	20		2.0	0.38	mg/Kg		10/25/12 11:13	10/26/12 20:00	5
Lead	20		2.0	0.50	mg/Kg		10/25/12 11:13	10/26/12 20:00	5
Molybdenum	1.3	J	2.0	0.20	mg/Kg		10/25/12 11:13	10/26/12 20:00	5
Nickel	9.4		2.0	0.20	mg/Kg		10/25/12 11:13	10/26/12 20:00	5
Selenium	ND		2.0	1.0	mg/Kg		10/25/12 11:13	10/26/12 20:00	5
Thallium	ND		10	0.80	mg/Kg		10/25/12 11:13	10/26/12 20:00	5

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_8S11

Lab Sample ID: 440-27479-11

Date Collected: 10/22/12 15:09

Matrix: Solid

Date Received: 10/22/12 19:25

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	32		1.0	0.30	mg/Kg		10/25/12 11:13	10/26/12 20:00	5
Zinc	160		5.0	0.50	mg/Kg		10/25/12 11:13	10/26/12 20:00	5
Silver	ND		1.0	0.80	mg/Kg		10/25/12 11:13	10/26/12 20:00	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.63		0.020	0.012	mg/Kg		10/28/12 15:40	10/29/12 16:46	1

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Tritium	0.04	U	0.13	0.13	0.23	pCi/g	12/05/12 00:00	12/05/12 17:19	1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Uranium 234	0.339		0.078	0.083	0.020	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Uranium 235/236	0.021		0.022	0.022	0.025	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Uranium 238	0.298		0.073	0.077	0.023	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Tracer	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Uranium-232	78		30 - 110				11/09/12 00:00	11/13/12 20:19	1

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Actinium 228	1.11		0.07	0.13	0.11	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Antimony 125	0.114	J	0.026	0.028	0.059	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Bismuth 212	0.85	J	0.18	0.20	0.16	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Bismuth 214	0.637	J	0.050	0.083	0.045	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Cesium 134	0.009	U	0.012	0.012	0.051	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Cesium 137	-0.011	U	0.015	0.015	0.024	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Cobalt 60	0.004	U	0.011	0.011	0.022	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Europium 152	0.004	U	0.043	0.043	0.051	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Europium 154	0.034	U	0.041	0.041	0.13	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Europium 155	0.068	J	0.042	0.043	0.055	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Lead 212	1.13		0.04	0.15	0.04	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Lead 214	0.671	J	0.048	0.085	0.049	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Potassium 40	20.9		0.6	2.2	0.3	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Protactinium 231	-0.23	U	0.63	0.63	1.0	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Radium (226)	0.637	J	0.050	0.083	0.045	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Sodium 22	0.013	J	0.014	0.014	0.024	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Thallium 208	0.357	J	0.021	0.043	0.022	pCi/g	12/05/12 00:00	12/05/12 18:13	1
Actinium 227	0.031	U	0.056	0.057	0.25	pCi/g	12/05/12 00:00	12/05/12 18:13	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_8S11

Lab Sample ID: 440-27479-11

Date Collected: 10/22/12 15:09

Matrix: Solid

Date Received: 10/22/12 19:25

Percent Solids: 97.1

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2.000σ+/-)	Uncert. (2.000σ+/-)					
Strontium Total	0.002	U	0.022	0.022	0.038	pCi/g	07/01/13 00:00	07/12/13 05:43	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Sr Tracer	89		40 - 110	07/01/13 00:00	07/12/13 05:43	1

Method Summary

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
7471A	Mercury (CVAA)	SW846	TAL IRV
160.3 MOD	Moisture, Percent (160.3)	MCAWW	TAL SL
906.0 MOD	TRITIUM (Distill) by EPA 906.0 MOD	EPA	TAL SL
A-01-R MOD	Iso URANIUM (LONG CT) DOE A-01-R MOD	EML	TAL SL
GA-01-R MOD	Gamma Ra-226 & Hits By EML GA-01-R MOD	EML	TAL SL
SR-03-RC MOD	Total Strontium by GFPC DOE SR-03-RC MOD	EML	TAL SL

Protocol References:

EML = "Environmental Measurements Laboratory Procedures Manual" HASL-300 27th Edition, Volume 1 US Department Of Energy (Revised February 1992)

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Lab Chronicle

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_3S1

Date Collected: 10/22/12 13:20

Date Received: 10/22/12 19:25

Lab Sample ID: 440-27479-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	0.99 g	10 mL	61858	10/26/12 01:10	YK	TAL IRV
Total/NA	Prep	3546			15.04 g	2 mL	61633	10/25/12 06:56	AB	TAL IRV
Total/NA	Analysis	8082		1			61853	10/25/12 22:06	JM	TAL IRV
Total/NA	Prep	3050B			1.97 g	50 mL	61731	10/25/12 11:13	EN	TAL IRV
Total/NA	Analysis	6010B		5			62213	10/26/12 19:03	VS	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	62050	10/28/12 15:40	MM	TAL IRV
Total/NA	Analysis	7471A		1			62620	10/29/12 14:58	DB	TAL IRV
Total	Analysis	160.3 MOD		1	0	0	2340017	12/06/12 00:00	MW	TAL SL
Total	Prep	Extraction Chromatography - Sequential Actinides			2.0048 g	0	2314028_P	11/09/12 00:00		TAL SL
Total	Analysis	A-01-R MOD		1			2314028	11/13/12 20:19	RM	TAL SL
Total	Prep	Distillation and Suspended in LSC Cocktail			30.37 g	0	2340010_P	12/05/12 00:00	NN	TAL SL
Total	Analysis	906.0 MOD		1			2340010	12/05/12 12:36	MJ	TAL SL
Total	Prep	Dry, Grind, and Fill Geometry -> 21 day in-growth			427.6 g	0	2340023_P	12/05/12 00:00	RS	TAL SL
Total	Analysis	GA-01-R MOD		1			2340023	12/05/12 11:50	JW	TAL SL
Total	Prep	Extraction Chromatography			2.5006 g	0	3182022_P	07/01/13 00:00	RS	TAL SL
Total	Analysis	SR-03-RC MOD		1			3182022	07/15/13 17:39	RM	TAL SL

Client Sample ID: 125727_2S2

Date Collected: 10/22/12 14:10

Date Received: 10/22/12 19:25

Lab Sample ID: 440-27479-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1 g	10 mL	61858	10/26/12 01:38	YK	TAL IRV
Total/NA	Prep	3546			15.00 g	2 mL	61633	10/25/12 06:56	AB	TAL IRV
Total/NA	Analysis	8082		1			61853	10/26/12 00:36	JM	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	61731	10/25/12 11:13	EN	TAL IRV
Total/NA	Analysis	6010B		5			62213	10/26/12 19:38	VS	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	62050	10/28/12 15:40	MM	TAL IRV
Total/NA	Analysis	7471A		1			62620	10/29/12 15:01	DB	TAL IRV
Total	Analysis	160.3 MOD		1	0	0	2340017	12/06/12 00:00	MW	TAL SL
Total	Prep	Distillation and Suspended in LSC Cocktail			30.33 g	0	2340010_P	12/05/12 00:00	NN	TAL SL
Total	Analysis	906.0 MOD		1			2340010	12/05/12 13:23	MJ	TAL SL
Total	Prep	Dry, Grind, and Fill Geometry -> 21 day in-growth			406.7 g	0	2340023_P	12/05/12 00:00	RS	TAL SL
Total	Analysis	GA-01-R MOD		1			2340023	12/05/12 12:02	JW	TAL SL

TestAmerica Irvine

Lab Chronicle

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_2S2

Lab Sample ID: 440-27479-2

Date Collected: 10/22/12 14:10

Matrix: Solid

Date Received: 10/22/12 19:25

Percent Solids: 97.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Extraction Chromatography - Sequential Actinides			2.0123 g	0	3157025_P	06/06/13 00:00	SM	TAL SL
Total	Analysis	A-01-R MOD		1			3157025	06/11/13 10:41	MJ	TAL SL
Total	Prep	Extraction Chromatography			2.5084 g	0	3182022_P	07/01/13 00:00	RS	TAL SL
Total	Analysis	SR-03-RC MOD		1			3182022	07/12/13 05:41	RM	TAL SL

Client Sample ID: 125727_3S3

Lab Sample ID: 440-27479-3

Date Collected: 10/22/12 13:26

Matrix: Solid

Date Received: 10/22/12 19:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1.04 g	10 mL	61858	10/26/12 02:05	YK	TAL IRV
Total/NA	Prep	3546			15.06 g	2 mL	61633	10/25/12 06:56	AB	TAL IRV
Total/NA	Analysis	8082		1			61853	10/26/12 00:52	JM	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	61731	10/25/12 11:13	EN	TAL IRV
Total/NA	Analysis	6010B		5			62213	10/26/12 19:39	VS	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	62050	10/28/12 15:40	MM	TAL IRV
Total/NA	Analysis	7471A		1			62620	10/29/12 15:03	DB	TAL IRV
Total	Analysis	160.3 MOD		1	0	0	2340017	12/06/12 00:00	MW	TAL SL
Total	Prep	Extraction Chromatography - Sequential Actinides			2.0052 g	0	2314028_P	11/09/12 00:00		TAL SL
Total	Analysis	A-01-R MOD		1			2314028	11/13/12 20:19	RM	TAL SL
Total	Prep	Distillation and Suspended in LSC Cocktail			30.23 g	0	2340010_P	12/05/12 00:00	NN	TAL SL
Total	Analysis	906.0 MOD		1			2340010	12/05/12 14:10	MJ	TAL SL
Total	Prep	Dry, Grind, and Fill Geometry -> 21 day in-growth			397.8 g	0	2340023_P	12/05/12 00:00	RS	TAL SL
Total	Analysis	GA-01-R MOD		1			2340023	12/05/12 11:39	JW	TAL SL
Total	Prep	Extraction Chromatography			2.5023 g	0	3182022_P	07/01/13 00:00	RS	TAL SL
Total	Analysis	SR-03-RC MOD		1			3182022	07/15/13 17:39	RM	TAL SL

Client Sample ID: 125727_4S4

Lab Sample ID: 440-27479-4

Date Collected: 10/22/12 14:30

Matrix: Solid

Date Received: 10/22/12 19:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	0.99 g	10 mL	61858	10/26/12 02:33	YK	TAL IRV
Total/NA	Prep	3546			15.05 g	2 mL	61633	10/25/12 06:56	AB	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_4S4

Lab Sample ID: 440-27479-4

Date Collected: 10/22/12 14:30

Matrix: Solid

Date Received: 10/22/12 19:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082		1			61853	10/26/12 01:07	JM	TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	61731	10/25/12 11:13	EN	TAL IRV
Total/NA	Analysis	6010B		5			62213	10/26/12 19:41	VS	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	62051	10/28/12 15:40	MM	TAL IRV
Total/NA	Analysis	7471A		1			62706	10/29/12 16:17	DB	TAL IRV
Total	Analysis	160.3 MOD		1	0	0	2340017	12/06/12 00:00	MW	TAL SL
Total	Prep	Extraction Chromatography - Sequential Actinides			2.0079 g	0	2314028_P	11/09/12 00:00		TAL SL
Total	Analysis	A-01-R MOD		1			2314028	11/15/12 00:42	RM	TAL SL
Total	Prep	Distillation and Suspended in LSC Cocktail			30.22 g	0	2340010_P	12/05/12 00:00	NN	TAL SL
Total	Analysis	906.0 MOD		1			2340010	12/05/12 14:34	MJ	TAL SL
Total	Prep	Dry, Grind, and Fill Geometry -> 21 day in-growth			350 g	0	2340023_P	12/05/12 00:00	RS	TAL SL
Total	Analysis	GA-01-R MOD		1			2340023	12/05/12 11:43	JW	TAL SL
Total	Prep	Extraction Chromatography			2.5019 g	0	3182022_P	07/01/13 00:00	RS	TAL SL
Total	Analysis	SR-03-RC MOD		1			3182022	07/12/13 05:42	RM	TAL SL

Client Sample ID: 125727_7S5

Lab Sample ID: 440-27479-5

Date Collected: 10/22/12 14:35

Matrix: Solid

Date Received: 10/22/12 19:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1.02 g	10 mL	61977	10/26/12 13:28	CP	TAL IRV
Total/NA	Prep	3546			15.01 g	2 mL	61633	10/25/12 06:56	AB	TAL IRV
Total/NA	Analysis	8082		1			61853	10/26/12 01:22	JM	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	61731	10/25/12 11:13	EN	TAL IRV
Total/NA	Analysis	6010B		5			62213	10/26/12 19:43	VS	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	62051	10/28/12 15:40	MM	TAL IRV
Total/NA	Analysis	7471A		1			62706	10/29/12 16:32	DB	TAL IRV
Total	Analysis	160.3 MOD		1	0	0	2340017	12/06/12 00:00	MW	TAL SL
Total	Prep	Extraction Chromatography - Sequential Actinides			2.0006 g	0	2314028_P	11/09/12 00:00		TAL SL
Total	Analysis	A-01-R MOD		1			2314028	11/13/12 20:19	RM	TAL SL
Total	Prep	Distillation and Suspended in LSC Cocktail			30.03 g	0	2340010_P	12/05/12 00:00	NN	TAL SL
Total	Analysis	906.0 MOD		1			2340010	12/05/12 14:57	MJ	TAL SL

TestAmerica Irvine

Lab Chronicle

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_7S5

Date Collected: 10/22/12 14:35

Date Received: 10/22/12 19:25

Lab Sample ID: 440-27479-5

Matrix: Solid

Percent Solids: 96.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Dry, Grind, and Fill Geometry -> 21 day in-growth			375.4 g	0	2340023_P	12/05/12 00:00	RS	TAL SL
Total	Analysis	GA-01-R MOD		1			2340023	12/05/12 12:06	JW	TAL SL
Total	Prep	Extraction Chromatography			2.5019 g	0	3182022_P	07/01/13 00:00	RS	TAL SL
Total	Analysis	SR-03-RC MOD		1			3182022	07/12/13 05:42	RM	TAL SL

Client Sample ID: 125727_6S6

Date Collected: 10/22/12 14:05

Date Received: 10/22/12 19:25

Lab Sample ID: 440-27479-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1 g	10 mL	61858	10/26/12 03:28	YK	TAL IRV
Total/NA	Prep	3546			15.02 g	2 mL	61633	10/25/12 06:56	AB	TAL IRV
Total/NA	Analysis	8082		1			61853	10/26/12 01:37	JM	TAL IRV
Total/NA	Prep	3050B			1.98 g	50 mL	61731	10/25/12 11:13	EN	TAL IRV
Total/NA	Analysis	6010B		5			62213	10/26/12 19:45	VS	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	62051	10/28/12 15:40	MM	TAL IRV
Total/NA	Analysis	7471A		1			62706	10/29/12 16:34	DB	TAL IRV
Total	Analysis	160.3 MOD		1	0	0	2340017	12/06/12 00:00	MW	TAL SL
Total	Prep	Extraction Chromatography - Sequential Actinides			2.0079 g	0	2314028_P	11/09/12 00:00		TAL SL
Total	Analysis	A-01-R MOD		1			2314028	11/13/12 20:19	RM	TAL SL
Total	Prep	Distillation and Suspended in LSC Cocktail			30.19 g	0	2340010_P	12/05/12 00:00	NN	TAL SL
Total	Analysis	906.0 MOD		1			2340010	12/05/12 15:21	MJ	TAL SL
Total	Prep	Dry, Grind, and Fill Geometry -> 21 day in-growth			396.5 g	0	2340023_P	12/05/12 00:00	RS	TAL SL
Total	Analysis	GA-01-R MOD		1			2340023	12/05/12 12:04	JW	TAL SL
Total	Prep	Extraction Chromatography			2.5037 g	0	3182022_P	07/01/13 00:00	RS	TAL SL
Total	Analysis	SR-03-RC MOD		1			3182022	07/12/13 05:42	RM	TAL SL

Client Sample ID: 125727_7S7

Date Collected: 10/22/12 15:19

Date Received: 10/22/12 19:25

Lab Sample ID: 440-27479-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1 g	10 mL	61858	10/26/12 03:56	YK	TAL IRV
Total/NA	Prep	3546			15.01 g	2 mL	61633	10/25/12 06:56	AB	TAL IRV
Total/NA	Analysis	8082		1			61853	10/26/12 01:52	JM	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_7S7

Lab Sample ID: 440-27479-7

Date Collected: 10/22/12 15:19

Matrix: Solid

Date Received: 10/22/12 19:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.98 g	50 mL	61731	10/25/12 11:13	EN	TAL IRV
Total/NA	Analysis	6010B		5			62213	10/26/12 19:47	VS	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	62051	10/28/12 15:40	MM	TAL IRV
Total/NA	Analysis	7471A		5			62726	10/29/12 20:20	DB	TAL IRV
Total	Analysis	160.3 MOD		1	0	0	2340017	12/06/12 00:00	MW	TAL SL
Total	Prep	Extraction Chromatography - Sequential Actinides			2.0093 g	0	2314028_P	11/09/12 00:00		TAL SL
Total	Analysis	A-01-R MOD		1			2314028	11/13/12 20:19	RM	TAL SL
Total	Prep	Distillation and Suspended in LSC Cocktail			30.02 g	0	2340010_P	12/05/12 00:00	NN	TAL SL
Total	Analysis	906.0 MOD		1			2340010	12/05/12 15:45	MJ	TAL SL
Total	Prep	Dry, Grind, and Fill Geometry -> 21 day in-growth			429 g	0	2340023_P	12/05/12 00:00	RS	TAL SL
Total	Analysis	GA-01-R MOD		1			2340023	12/05/12 12:04	JW	TAL SL
Total	Prep	Extraction Chromatography			2.5034 g	0	3182022_P	07/01/13 00:00	RS	TAL SL
Total	Analysis	SR-03-RC MOD		1			3182022	07/12/13 05:42	RM	TAL SL

Client Sample ID: 125727_6S8

Lab Sample ID: 440-27479-8

Date Collected: 10/22/12 14:20

Matrix: Solid

Date Received: 10/22/12 19:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	0.97 g	10 mL	61858	10/26/12 04:23	YK	TAL IRV
Total/NA	Prep	3546			15.01 g	2 mL	61633	10/25/12 06:56	AB	TAL IRV
Total/NA	Analysis	8082		1			61853	10/26/12 02:07	JM	TAL IRV
Total/NA	Prep	3050B			2.04 g	50 mL	61731	10/25/12 11:13	EN	TAL IRV
Total/NA	Analysis	6010B		5			62213	10/26/12 19:48	VS	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	62051	10/28/12 15:40	MM	TAL IRV
Total/NA	Analysis	7471A		1			62706	10/29/12 16:39	DB	TAL IRV
Total	Analysis	160.3 MOD		1	0	0	2340017	12/06/12 00:00	MW	TAL SL
Total	Prep	Extraction Chromatography - Sequential Actinides			2.0014 g	0	2314028_P	11/09/12 00:00		TAL SL
Total	Analysis	A-01-R MOD		1			2314028	11/13/12 20:19	RM	TAL SL
Total	Prep	Distillation and Suspended in LSC Cocktail			30.38 g	0	2340010_P	12/05/12 00:00	NN	TAL SL
Total	Analysis	906.0 MOD		1			2340010	12/05/12 16:08	MJ	TAL SL
Total	Prep	Dry, Grind, and Fill Geometry -> 21 day in-growth			381.4 g	0	2340023_P	12/05/12 00:00	RS	TAL SL

TestAmerica Irvine

Lab Chronicle

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_6S8

Lab Sample ID: 440-27479-8

Date Collected: 10/22/12 14:20

Matrix: Solid

Date Received: 10/22/12 19:25

Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Analysis	GA-01-R MOD		1			2340023	12/05/12 18:12	JW	TAL SL
Total	Prep	Extraction			2.5061 g	0	3182022_P	07/01/13 00:00	RS	TAL SL
Total	Analysis	SR-03-RC MOD		1			3182022	07/12/13 05:42	RM	TAL SL

Client Sample ID: 125727_8S9

Lab Sample ID: 440-27479-9

Date Collected: 10/22/12 15:01

Matrix: Solid

Date Received: 10/22/12 19:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1.02 g	10 mL	61858	10/26/12 04:51	YK	TAL IRV
Total/NA	Prep	3546			15.01 g	2 mL	61633	10/25/12 06:56	AB	TAL IRV
Total/NA	Analysis	8082		1			61853	10/26/12 02:22	JM	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	61731	10/25/12 11:13	EN	TAL IRV
Total/NA	Analysis	6010B		5			62213	10/26/12 19:50	VS	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	62051	10/28/12 15:40	MM	TAL IRV
Total/NA	Analysis	7471A		1			62706	10/29/12 16:42	DB	TAL IRV
Total	Analysis	160.3 MOD		1	0	0	2340017	12/06/12 00:00	MW	TAL SL
Total	Prep	Extraction			2.0061 g	0	2314028_P	11/09/12 00:00		TAL SL
Total	Analysis	Chromatography - Sequential Actinides		1			2314028	11/13/12 20:19	RM	TAL SL
Total	Prep	Distillation and Suspended in			30 g	0	2340010_P	12/05/12 00:00	NN	TAL SL
Total	Analysis	LSC Cocktail		1			2340010	12/05/12 16:32	MJ	TAL SL
Total	Prep	906.0 MOD			351.5 g	0	2340023_P	12/05/12 00:00	RS	TAL SL
Total	Analysis	Dry, Grind, and Fill Geometry -> 21 day in-growth		1			2340023	12/05/12 18:11	JW	TAL SL
Total	Prep	GA-01-R MOD			2.5038 g	0	3182022_P	07/01/13 00:00	RS	TAL SL
Total	Analysis	Extraction Chromatography		1			3182022	07/12/13 05:42	RM	TAL SL

Client Sample ID: 125727_5S10

Lab Sample ID: 440-27479-10

Date Collected: 10/22/12 13:53

Matrix: Solid

Date Received: 10/22/12 19:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	0.99 g	10 mL	61858	10/26/12 05:19	YK	TAL IRV
Total/NA	Prep	3546			15.01 g	2 mL	61633	10/25/12 06:56	AB	TAL IRV
Total/NA	Analysis	8082		1			61853	10/26/12 02:37	JM	TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	61731	10/25/12 11:13	EN	TAL IRV
Total/NA	Analysis	6010B		5			62213	10/26/12 19:59	VS	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_5S10

Lab Sample ID: 440-27479-10

Date Collected: 10/22/12 13:53

Matrix: Solid

Date Received: 10/22/12 19:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			0.51 g	50 mL	62051	10/28/12 15:40	MM	TAL IRV
Total/NA	Analysis	7471A		1			62706	10/29/12 16:44	DB	TAL IRV
Total	Analysis	160.3 MOD		1	0	0	2340017	12/06/12 00:00	MW	TAL SL
Total	Prep	Extraction Chromatography - Sequential Actinides			2.0097 g	0	2314028_P	11/09/12 00:00		TAL SL
Total	Analysis	A-01-R MOD		1			2314028	11/13/12 20:19	RM	TAL SL
Total	Prep	Distillation and Suspended in LSC Cocktail			30.27 g	0	2340010_P	12/05/12 00:00	NN	TAL SL
Total	Analysis	906.0 MOD		1			2340010	12/05/12 16:56	MJ	TAL SL
Total	Prep	Dry, Grind, and Fill Geometry -> 21 day in-growth			372.3 g	0	2340023_P	12/05/12 00:00	RS	TAL SL
Total	Analysis	GA-01-R MOD		1			2340023	12/05/12 18:13	JW	TAL SL
Total	Prep	Extraction Chromatography			2.5069 g	0	3182022_P	07/01/13 00:00	RS	TAL SL
Total	Analysis	SR-03-RC MOD		1			3182022	07/12/13 05:42	RM	TAL SL

Client Sample ID: 125727_8S11

Lab Sample ID: 440-27479-11

Date Collected: 10/22/12 15:09

Matrix: Solid

Date Received: 10/22/12 19:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1.04 g	10 mL	61977	10/26/12 13:56	CP	TAL IRV
Total/NA	Prep	3546			15.02 g	2 mL	61633	10/25/12 06:56	AB	TAL IRV
Total/NA	Analysis	8082		1			61853	10/26/12 02:52	JM	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	61731	10/25/12 11:13	EN	TAL IRV
Total/NA	Analysis	6010B		5			62213	10/26/12 20:00	VS	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	62051	10/28/12 15:40	MM	TAL IRV
Total/NA	Analysis	7471A		1			62706	10/29/12 16:46	DB	TAL IRV
Total	Analysis	160.3 MOD		1	0	0	2340017	12/06/12 00:00	MW	TAL SL
Total	Prep	Extraction Chromatography - Sequential Actinides			2.0025 g	0	2314028_P	11/09/12 00:00		TAL SL
Total	Analysis	A-01-R MOD		1			2314028	11/13/12 20:19	RM	TAL SL
Total	Prep	Distillation and Suspended in LSC Cocktail			30.38 g	0	2340010_P	12/05/12 00:00	NN	TAL SL
Total	Analysis	906.0 MOD		1			2340010	12/05/12 17:19	MJ	TAL SL
Total	Prep	Dry, Grind, and Fill Geometry -> 21 day in-growth			405.5 g	0	2340023_P	12/05/12 00:00	RS	TAL SL
Total	Analysis	GA-01-R MOD		1			2340023	12/05/12 18:13	JW	TAL SL
Total	Prep	Extraction Chromatography			2.5033 g	0	3182022_P	07/01/13 00:00	RS	TAL SL

TestAmerica Irvine

Lab Chronicle

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Client Sample ID: 125727_8S11

Lab Sample ID: 440-27479-11

Date Collected: 10/22/12 15:09

Matrix: Solid

Date Received: 10/22/12 19:25

Percent Solids: 97.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Analysis	SR-03-RC MOD		1			3182022	07/12/13 05:43	RM	TAL SL

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

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QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: 440-27327-E-8-B MS

Matrix: Solid

Analysis Batch: 61858

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 61163

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS Qualifier	Unit	D	%Rec	%Rec. Limits
	Result			Result					
Ethylbenzene	ND		40.9	44.6		ug/Kg		109	70 - 135
Styrene	ND		40.9	47.7		ug/Kg		117	70 - 140
cis-1,3-Dichloropropene	ND		40.9	51.6		ug/Kg		126	70 - 135
trans-1,3-Dichloropropene	ND		40.9	56.5		ug/Kg		138	60 - 145
N-Propylbenzene	ND		40.9	41.7		ug/Kg		102	65 - 140
n-Butylbenzene	ND		40.9	41.5		ug/Kg		101	55 - 145
4-Chlorotoluene	ND		40.9	42.8		ug/Kg		105	65 - 135
1,4-Dichlorobenzene	ND		40.9	42.6		ug/Kg		104	70 - 130
1,2-Dibromoethane (EDB)	ND		40.9	47.3		ug/Kg		116	65 - 140
1,2-Dichloroethane	ND		40.9	52.1		ug/Kg		127	60 - 150
4-Methyl-2-pentanone (MIBK)	ND		40.9	42.9		ug/Kg		105	40 - 155
1,3,5-Trimethylbenzene	0.57	J	40.9	44.3		ug/Kg		107	65 - 135
Bromobenzene	ND		40.9	43.9		ug/Kg		107	65 - 140
Toluene	ND		40.9	43.2		ug/Kg		105	70 - 130
Chlorobenzene	ND		40.9	42.3		ug/Kg		103	70 - 130
1,2,4-Trichlorobenzene	ND		40.9	42.4		ug/Kg		104	50 - 140
Dibromochloromethane	ND		40.9	56.3		ug/Kg		138	60 - 145
Tetrachloroethene	ND		40.9	48.2		ug/Kg		118	65 - 135
sec-Butylbenzene	ND		40.9	40.7		ug/Kg		100	60 - 135
m,p-Xylene	ND		81.8	88.0		ug/Kg		107	70 - 130
1,3-Dichloropropane	ND		40.9	43.1		ug/Kg		105	65 - 140
cis-1,2-Dichloroethene	ND		40.9	44.5		ug/Kg		109	65 - 135
trans-1,2-Dichloroethene	ND		40.9	39.4		ug/Kg		96	70 - 135
Methyl-t-Butyl Ether (MTBE)	ND		40.9	46.4		ug/Kg		113	55 - 155
1,3-Dichlorobenzene	ND		40.9	44.9		ug/Kg		110	70 - 130
Carbon tetrachloride	ND	*	40.9	58.6		ug/Kg		143	60 - 145
1,1-Dichloropropene	ND		40.9	43.3		ug/Kg		106	65 - 135
2-Hexanone	ND		40.9	41.4		ug/Kg		101	35 - 160
2,2-Dichloropropane	ND		40.9	49.7		ug/Kg		121	65 - 150
1,1,1,2-Tetrachloroethane	ND	*	40.9	54.6		ug/Kg		133	65 - 145
Acetone	24		40.9	62.9		ug/Kg		95	20 - 145
Chloroform	ND		40.9	45.3		ug/Kg		111	65 - 135
Benzene	ND		40.9	42.3		ug/Kg		103	65 - 130
1,1,1-Trichloroethane	ND		40.9	49.6		ug/Kg		121	65 - 145
Bromomethane	ND		40.9	49.0		ug/Kg		120	60 - 155
Chloromethane	ND		40.9	37.5		ug/Kg		92	40 - 145
Dibromomethane	ND		40.9	48.6		ug/Kg		119	65 - 140
Bromochloromethane	ND		40.9	43.4		ug/Kg		106	65 - 145
Chloroethane	ND		40.9	44.3		ug/Kg		108	60 - 150
Vinyl chloride	6.4		40.9	49.2		ug/Kg		105	55 - 140
Methylene Chloride	ND		40.9	38.7		ug/Kg		95	55 - 145
Carbon disulfide	ND		40.9	38.6		ug/Kg		94	40 - 140
Bromoform	ND		40.9	47.7		ug/Kg		117	50 - 145
Bromodichloromethane	ND		40.9	53.2		ug/Kg		130	65 - 145
1,1-Dichloroethane	ND		40.9	40.2		ug/Kg		98	65 - 135
1,1-Dichloroethene	ND		40.9	39.1		ug/Kg		96	65 - 135
Trichlorofluoromethane	ND		40.9	53.1		ug/Kg		130	55 - 155
Dichlorodifluoromethane	ND		40.9	43.5		ug/Kg		106	30 - 160

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-27327-E-8-B MS

Matrix: Solid

Analysis Batch: 61858

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 61163

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2-Dichloropropane	ND		40.9	39.2		ug/Kg		96	65 - 130
2-Butanone (MEK)	ND		40.9	40.9		ug/Kg		100	25 - 170
1,1,2-Trichloroethane	ND		40.9	44.4		ug/Kg		109	65 - 140
Trichloroethene	ND		40.9	46.3		ug/Kg		113	65 - 140
1,1,2,2-Tetrachloroethane	ND		40.9	40.0		ug/Kg		98	40 - 160
1,2,3-Trichlorobenzene	ND		40.9	37.8		ug/Kg		92	45 - 145
Hexachlorobutadiene	ND		40.9	39.1		ug/Kg		96	50 - 145
Naphthalene	ND		40.9	38.4		ug/Kg		94	40 - 150
o-Xylene	0.51	J	40.9	45.8		ug/Kg		111	65 - 130
2-Chlorotoluene	ND		40.9	42.8		ug/Kg		105	60 - 135
1,2-Dichlorobenzene	ND		40.9	43.4		ug/Kg		106	70 - 130
1,2,4-Trimethylbenzene	ND		40.9	44.7		ug/Kg		109	65 - 140
1,2-Dibromo-3-Chloropropane	ND		40.9	42.1		ug/Kg		103	40 - 150
1,2,3-Trichloropropane	ND		40.9	39.0		ug/Kg		95	50 - 150
tert-Butylbenzene	ND		40.9	43.8		ug/Kg		107	60 - 140
Isopropylbenzene	ND		40.9	42.0		ug/Kg		103	70 - 145
p-Isopropyltoluene	ND		40.9	42.9		ug/Kg		105	60 - 140

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	109		80 - 120
4-Bromofluorobenzene (Surr)	106		80 - 120
Dibromofluoromethane (Surr)	111		80 - 125

Lab Sample ID: 440-27327-F-8-B MSD

Matrix: Solid

Analysis Batch: 61858

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 61163

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	
	Result	Qualifier	Added	Result	Qualifier					RPD	Limit
Ethylbenzene	ND		39.2	42.1		ug/Kg		107	70 - 135	6	25
Styrene	ND		39.2	44.7		ug/Kg		114	70 - 140	6	25
cis-1,3-Dichloropropene	ND		39.2	48.1		ug/Kg		123	70 - 135	7	25
trans-1,3-Dichloropropene	ND		39.2	53.0		ug/Kg		135	60 - 145	6	25
N-Propylbenzene	ND		39.2	38.4		ug/Kg		98	65 - 140	8	25
n-Butylbenzene	ND		39.2	37.8		ug/Kg		96	55 - 145	9	30
4-Chlorotoluene	ND		39.2	40.0		ug/Kg		102	65 - 135	7	25
1,4-Dichlorobenzene	ND		39.2	39.6		ug/Kg		101	70 - 130	7	25
1,2-Dibromoethane (EDB)	ND		39.2	45.2		ug/Kg		115	65 - 140	5	25
1,2-Dichloroethane	ND		39.2	48.7		ug/Kg		124	60 - 150	7	25
4-Methyl-2-pentanone (MIBK)	ND		39.2	41.6		ug/Kg		106	40 - 155	3	40
1,3,5-Trimethylbenzene	0.57	J	39.2	41.4		ug/Kg		104	65 - 135	7	25
Bromobenzene	ND		39.2	41.9		ug/Kg		107	65 - 140	5	25
Toluene	ND		39.2	40.5		ug/Kg		103	70 - 130	6	20
Chlorobenzene	ND		39.2	40.5		ug/Kg		103	70 - 130	4	25
1,2,4-Trichlorobenzene	ND		39.2	39.5		ug/Kg		101	50 - 140	7	30
Dibromochloromethane	ND		39.2	53.2		ug/Kg		136	60 - 145	6	25
Tetrachloroethene	ND		39.2	44.7		ug/Kg		114	65 - 135	7	25
sec-Butylbenzene	ND		39.2	37.6		ug/Kg		96	60 - 135	8	25
m,p-Xylene	ND		78.4	82.5		ug/Kg		105	70 - 130	6	25

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-27327-F-8-B MSD

Matrix: Solid

Analysis Batch: 61858

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 61163

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
1,3-Dichloropropane	ND		39.2	41.3		ug/Kg		105	65 - 140	4	25
cis-1,2-Dichloroethene	ND		39.2	41.0		ug/Kg		105	65 - 135	8	25
trans-1,2-Dichloroethene	ND		39.2	37.0		ug/Kg		94	70 - 135	6	25
Methyl-t-Butyl Ether (MTBE)	ND		39.2	44.3		ug/Kg		113	55 - 155	4	35
1,3-Dichlorobenzene	ND		39.2	42.4		ug/Kg		108	70 - 130	6	25
Carbon tetrachloride	ND *		39.2	52.4		ug/Kg		134	60 - 145	11	25
1,1-Dichloropropene	ND		39.2	39.4		ug/Kg		101	65 - 135	9	20
2-Hexanone	ND		39.2	40.7		ug/Kg		104	35 - 160	2	40
2,2-Dichloropropane	ND		39.2	45.1		ug/Kg		115	65 - 150	10	25
1,1,1,2-Tetrachloroethane	ND *		39.2	51.9		ug/Kg		132	65 - 145	5	20
Acetone	24		39.2	67.1		ug/Kg		110	20 - 145	6	40
Chloroform	ND		39.2	42.0		ug/Kg		107	65 - 135	7	20
Benzene	ND		39.2	39.6		ug/Kg		101	65 - 130	7	20
1,1,1-Trichloroethane	ND		39.2	45.9		ug/Kg		117	65 - 145	8	20
Bromomethane	ND		39.2	45.9		ug/Kg		117	60 - 155	7	25
Chloromethane	ND		39.2	34.5		ug/Kg		88	40 - 145	8	25
Dibromomethane	ND		39.2	44.6		ug/Kg		114	65 - 140	8	25
Bromochloromethane	ND		39.2	42.5		ug/Kg		108	65 - 145	2	25
Chloroethane	ND		39.2	40.8		ug/Kg		104	60 - 150	8	25
Vinyl chloride	6.4		39.2	46.5		ug/Kg		102	55 - 140	6	30
Methylene Chloride	ND		39.2	36.8		ug/Kg		94	55 - 145	5	25
Carbon disulfide	ND		39.2	35.5		ug/Kg		91	40 - 140	8	20
Bromoform	ND		39.2	45.4		ug/Kg		116	50 - 145	5	30
Bromodichloromethane	ND		39.2	50.0		ug/Kg		128	65 - 145	6	20
1,1-Dichloroethane	ND		39.2	37.7		ug/Kg		96	65 - 135	6	25
1,1-Dichloroethene	ND		39.2	36.6		ug/Kg		94	65 - 135	7	25
Trichlorofluoromethane	ND		39.2	48.4		ug/Kg		124	55 - 155	9	25
Dichlorodifluoromethane	ND		39.2	38.6		ug/Kg		98	30 - 160	12	35
1,2-Dichloropropane	ND		39.2	38.0		ug/Kg		97	65 - 130	3	20
2-Butanone (MEK)	ND		39.2	40.7		ug/Kg		104	25 - 170	0	40
1,1,2-Trichloroethane	ND		39.2	41.3		ug/Kg		105	65 - 140	7	30
Trichloroethene	ND		39.2	43.1		ug/Kg		110	65 - 140	7	25
1,1,1,2-Tetrachloroethane	ND		39.2	38.5		ug/Kg		98	40 - 160	4	30
1,2,3-Trichlorobenzene	ND		39.2	36.1		ug/Kg		92	45 - 145	5	30
Hexachlorobutadiene	ND		39.2	35.6		ug/Kg		91	50 - 145	10	35
Naphthalene	ND		39.2	37.5		ug/Kg		96	40 - 150	2	40
o-Xylene	0.51 J		39.2	42.8		ug/Kg		108	65 - 130	7	25
2-Chlorotoluene	ND		39.2	39.8		ug/Kg		101	60 - 135	7	25
1,2-Dichlorobenzene	ND		39.2	40.8		ug/Kg		104	70 - 130	6	25
1,2,4-Trimethylbenzene	ND		39.2	41.8		ug/Kg		107	65 - 140	7	25
1,2-Dibromo-3-Chloropropane	ND		39.2	41.8		ug/Kg		107	40 - 150	1	30
1,2,3-Trichloropropane	ND		39.2	37.7		ug/Kg		96	50 - 150	3	30
tert-Butylbenzene	ND		39.2	40.6		ug/Kg		104	60 - 140	8	25
Isopropylbenzene	ND		39.2	38.8		ug/Kg		99	70 - 145	8	25
p-Isopropyltoluene	ND		39.2	39.5		ug/Kg		101	60 - 140	8	25

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	109		80 - 120

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-27327-F-8-B MSD
Matrix: Solid
Analysis Batch: 61858

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 61163

<i>Surrogate</i>	<i>MSD %Recovery</i>	<i>MSD Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene (Surr)	106		80 - 120
Dibromofluoromethane (Surr)	111		80 - 125

Lab Sample ID: MB 440-61858/4
Matrix: Solid
Analysis Batch: 61858

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ethylbenzene	ND		2.0	0.50	ug/Kg			10/25/12 19:37	1
Styrene	ND		2.0	0.58	ug/Kg			10/25/12 19:37	1
cis-1,3-Dichloropropene	ND		2.0	0.44	ug/Kg			10/25/12 19:37	1
trans-1,3-Dichloropropene	ND		2.0	0.61	ug/Kg			10/25/12 19:37	1
N-Propylbenzene	ND		2.0	0.61	ug/Kg			10/25/12 19:37	1
n-Butylbenzene	ND		5.0	0.72	ug/Kg			10/25/12 19:37	1
4-Chlorotoluene	ND		5.0	0.74	ug/Kg			10/25/12 19:37	1
1,4-Dichlorobenzene	ND		2.0	0.94	ug/Kg			10/25/12 19:37	1
1,2-Dibromoethane (EDB)	ND		2.0	0.80	ug/Kg			10/25/12 19:37	1
1,2-Dichloroethane	ND		2.0	0.80	ug/Kg			10/25/12 19:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	4.5	ug/Kg			10/25/12 19:37	1
1,3,5-Trimethylbenzene	ND		2.0	0.63	ug/Kg			10/25/12 19:37	1
Bromobenzene	ND		5.0	0.84	ug/Kg			10/25/12 19:37	1
Toluene	ND		2.0	0.50	ug/Kg			10/25/12 19:37	1
Chlorobenzene	ND		2.0	0.52	ug/Kg			10/25/12 19:37	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			10/25/12 19:37	1
Dibromochloromethane	ND		2.0	0.70	ug/Kg			10/25/12 19:37	1
Tetrachloroethene	ND		2.0	0.49	ug/Kg			10/25/12 19:37	1
sec-Butylbenzene	ND		5.0	0.67	ug/Kg			10/25/12 19:37	1
m,p-Xylene	ND		2.0	0.80	ug/Kg			10/25/12 19:37	1
1,3-Dichloropropane	ND		2.0	0.63	ug/Kg			10/25/12 19:37	1
cis-1,2-Dichloroethene	ND		2.0	0.83	ug/Kg			10/25/12 19:37	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/Kg			10/25/12 19:37	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	1.0	ug/Kg			10/25/12 19:37	1
1,3-Dichlorobenzene	ND		2.0	0.84	ug/Kg			10/25/12 19:37	1
Carbon tetrachloride	ND		5.0	0.50	ug/Kg			10/25/12 19:37	1
1,1-Dichloropropene	ND		2.0	0.40	ug/Kg			10/25/12 19:37	1
2-Hexanone	ND		25	9.1	ug/Kg			10/25/12 19:37	1
2,2-Dichloropropane	ND		2.0	0.60	ug/Kg			10/25/12 19:37	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.57	ug/Kg			10/25/12 19:37	1
Acetone	ND		10	8.0	ug/Kg			10/25/12 19:37	1
Chloroform	ND		2.0	0.50	ug/Kg			10/25/12 19:37	1
Benzene	ND		2.0	0.50	ug/Kg			10/25/12 19:37	1
1,1,1-Trichloroethane	ND		2.0	0.70	ug/Kg			10/25/12 19:37	1
Bromomethane	ND		5.0	0.92	ug/Kg			10/25/12 19:37	1
Chloromethane	ND		5.0	1.0	ug/Kg			10/25/12 19:37	1
Dibromomethane	ND		2.0	0.90	ug/Kg			10/25/12 19:37	1
Bromochloromethane	ND		5.0	0.90	ug/Kg			10/25/12 19:37	1
Chloroethane	ND		5.0	1.5	ug/Kg			10/25/12 19:37	1
Vinyl chloride	ND		5.0	0.91	ug/Kg			10/25/12 19:37	1

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-61858/4

Matrix: Solid

Analysis Batch: 61858

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		20	6.5	ug/Kg			10/25/12 19:37	1
Carbon disulfide	ND		5.0	0.97	ug/Kg			10/25/12 19:37	1
Bromoform	ND		5.0	0.80	ug/Kg			10/25/12 19:37	1
Bromodichloromethane	ND		2.0	0.50	ug/Kg			10/25/12 19:37	1
1,1-Dichloroethane	ND		2.0	0.50	ug/Kg			10/25/12 19:37	1
1,1-Dichloroethene	ND		5.0	0.60	ug/Kg			10/25/12 19:37	1
Trichlorofluoromethane	ND		5.0	0.54	ug/Kg			10/25/12 19:37	1
Dichlorodifluoromethane	ND		5.0	1.5	ug/Kg			10/25/12 19:37	1
1,2-Dichloropropane	ND		2.0	0.80	ug/Kg			10/25/12 19:37	1
2-Butanone (MEK)	ND		10	6.0	ug/Kg			10/25/12 19:37	1
1,1,2-Trichloroethane	ND		2.0	0.87	ug/Kg			10/25/12 19:37	1
Trichloroethene	ND		2.0	0.50	ug/Kg			10/25/12 19:37	1
1,1,1,2-Tetrachloroethane	ND		2.0	0.86	ug/Kg			10/25/12 19:37	1
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/Kg			10/25/12 19:37	1
Hexachlorobutadiene	ND		5.0	0.80	ug/Kg			10/25/12 19:37	1
Naphthalene	ND		5.0	1.1	ug/Kg			10/25/12 19:37	1
o-Xylene	ND		2.0	0.50	ug/Kg			10/25/12 19:37	1
2-Chlorotoluene	ND		5.0	0.87	ug/Kg			10/25/12 19:37	1
1,2-Dichlorobenzene	ND		2.0	0.95	ug/Kg			10/25/12 19:37	1
1,2,4-Trimethylbenzene	ND		2.0	0.78	ug/Kg			10/25/12 19:37	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/Kg			10/25/12 19:37	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			10/25/12 19:37	1
tert-Butylbenzene	ND		5.0	0.62	ug/Kg			10/25/12 19:37	1
Isopropylbenzene	ND		2.0	0.54	ug/Kg			10/25/12 19:37	1
p-Isopropyltoluene	ND		2.0	0.72	ug/Kg			10/25/12 19:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	108		80 - 120		10/25/12 19:37	1
4-Bromofluorobenzene (Surr)	105		80 - 120		10/25/12 19:37	1
Dibromofluoromethane (Surr)	110		80 - 125		10/25/12 19:37	1

Lab Sample ID: LCS 440-61858/5

Matrix: Solid

Analysis Batch: 61858

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	50.0	54.2		ug/Kg		108	70 - 125
Styrene	50.0	57.3		ug/Kg		115	75 - 130
cis-1,3-Dichloropropene	50.0	61.3		ug/Kg		123	75 - 125
trans-1,3-Dichloropropene	50.0	66.4		ug/Kg		133	70 - 135
N-Propylbenzene	50.0	50.9		ug/Kg		102	70 - 130
n-Butylbenzene	50.0	50.1		ug/Kg		100	70 - 130
4-Chlorotoluene	50.0	52.8		ug/Kg		106	75 - 125
1,4-Dichlorobenzene	50.0	51.9		ug/Kg		104	75 - 120
1,2-Dibromoethane (EDB)	50.0	56.7		ug/Kg		113	70 - 130
1,2-Dichloroethane	50.0	62.7		ug/Kg		125	60 - 140
4-Methyl-2-pentanone (MIBK)	50.0	48.6		ug/Kg		97	40 - 145
1,3,5-Trimethylbenzene	50.0	54.8		ug/Kg		110	70 - 125

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-61858/5

Matrix: Solid

Analysis Batch: 61858

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	56.0		ug/Kg		112	75 - 120
Toluene	50.0	52.2		ug/Kg		104	70 - 125
Chlorobenzene	50.0	51.9		ug/Kg		104	75 - 120
1,2,4-Trichlorobenzene	50.0	50.9		ug/Kg		102	70 - 135
Dibromochloromethane	50.0	68.6		ug/Kg		137	65 - 140
Tetrachloroethene	50.0	57.8		ug/Kg		116	70 - 125
sec-Butylbenzene	50.0	50.7		ug/Kg		101	70 - 125
m,p-Xylene	100	105		ug/Kg		105	70 - 125
1,3-Dichloropropane	50.0	52.8		ug/Kg		106	70 - 125
cis-1,2-Dichloroethene	50.0	53.3		ug/Kg		107	70 - 125
trans-1,2-Dichloroethene	50.0	49.2		ug/Kg		98	70 - 125
Methyl-t-Butyl Ether (MTBE)	50.0	56.1		ug/Kg		112	60 - 140
1,3-Dichlorobenzene	50.0	55.7		ug/Kg		111	75 - 125
Carbon tetrachloride	50.0	71.6	*	ug/Kg		143	65 - 140
1,1-Dichloropropene	50.0	51.3		ug/Kg		103	70 - 130
2-Hexanone	50.0	47.1		ug/Kg		94	40 - 150
2,2-Dichloropropane	50.0	62.1		ug/Kg		124	60 - 145
1,1,1,2-Tetrachloroethane	50.0	67.4	*	ug/Kg		135	70 - 130
Acetone	50.0	42.7		ug/Kg		85	25 - 145
Chloroform	50.0	56.7		ug/Kg		113	70 - 130
Benzene	50.0	51.5		ug/Kg		103	65 - 120
1,1,1-Trichloroethane	50.0	62.9		ug/Kg		126	65 - 135
Bromomethane	50.0	62.1		ug/Kg		124	60 - 145
Chloromethane	50.0	48.4		ug/Kg		97	45 - 145
Dibromomethane	50.0	56.1		ug/Kg		112	70 - 130
Bromochloromethane	50.0	54.5		ug/Kg		109	70 - 135
Chloroethane	50.0	56.2		ug/Kg		112	60 - 140
Vinyl chloride	50.0	57.4		ug/Kg		115	55 - 135
Methylene Chloride	50.0	47.8		ug/Kg		96	55 - 135
Carbon disulfide	50.0	47.9		ug/Kg		96	50 - 130
Bromoform	50.0	56.0		ug/Kg		112	55 - 135
Bromodichloromethane	50.0	64.3		ug/Kg		129	70 - 135
1,1-Dichloroethane	50.0	51.0		ug/Kg		102	70 - 130
1,1-Dichloroethene	50.0	49.0		ug/Kg		98	70 - 125
Trichlorofluoromethane	50.0	67.8		ug/Kg		136	60 - 145
Dichlorodifluoromethane	50.0	58.4		ug/Kg		117	35 - 160
1,2-Dichloropropane	50.0	47.9		ug/Kg		96	70 - 130
2-Butanone (MEK)	50.0	45.8		ug/Kg		92	40 - 145
1,1,2-Trichloroethane	50.0	51.9		ug/Kg		104	65 - 135
Trichloroethene	50.0	55.5		ug/Kg		111	70 - 125
1,1,2,2-Tetrachloroethane	50.0	48.9		ug/Kg		98	55 - 140
1,2,3-Trichlorobenzene	50.0	46.4		ug/Kg		93	60 - 130
Hexachlorobutadiene	50.0	47.7		ug/Kg		95	60 - 135
Naphthalene	50.0	46.3		ug/Kg		93	55 - 135
o-Xylene	50.0	55.2		ug/Kg		110	70 - 125
2-Chlorotoluene	50.0	53.4		ug/Kg		107	70 - 125
1,2-Dichlorobenzene	50.0	53.8		ug/Kg		108	75 - 120
1,2,4-Trimethylbenzene	50.0	55.3		ug/Kg		111	70 - 125

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-61858/5

Matrix: Solid

Analysis Batch: 61858

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	50.0	50.9		ug/Kg		102	50 - 135
1,2,3-Trichloropropane	50.0	48.4		ug/Kg		97	60 - 135
tert-Butylbenzene	50.0	54.6		ug/Kg		109	70 - 125
Isopropylbenzene	50.0	52.0		ug/Kg		104	75 - 130
p-Isopropyltoluene	50.0	51.9		ug/Kg		104	75 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	108		80 - 120
4-Bromofluorobenzene (Surr)	105		80 - 120
Dibromofluoromethane (Surr)	115		80 - 125

Lab Sample ID: MB 440-61977/4

Matrix: Solid

Analysis Batch: 61977

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ethylbenzene	ND		2.0	0.50	ug/Kg			10/26/12 08:45	1
Styrene	ND		2.0	0.58	ug/Kg			10/26/12 08:45	1
cis-1,3-Dichloropropene	ND		2.0	0.44	ug/Kg			10/26/12 08:45	1
trans-1,3-Dichloropropene	ND		2.0	0.61	ug/Kg			10/26/12 08:45	1
N-Propylbenzene	ND		2.0	0.61	ug/Kg			10/26/12 08:45	1
n-Butylbenzene	ND		5.0	0.72	ug/Kg			10/26/12 08:45	1
4-Chlorotoluene	ND		5.0	0.74	ug/Kg			10/26/12 08:45	1
1,4-Dichlorobenzene	ND		2.0	0.94	ug/Kg			10/26/12 08:45	1
1,2-Dibromoethane (EDB)	ND		2.0	0.80	ug/Kg			10/26/12 08:45	1
1,2-Dichloroethane	ND		2.0	0.80	ug/Kg			10/26/12 08:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	4.5	ug/Kg			10/26/12 08:45	1
1,3,5-Trimethylbenzene	ND		2.0	0.63	ug/Kg			10/26/12 08:45	1
Bromobenzene	ND		5.0	0.84	ug/Kg			10/26/12 08:45	1
Toluene	ND		2.0	0.50	ug/Kg			10/26/12 08:45	1
Chlorobenzene	ND		2.0	0.52	ug/Kg			10/26/12 08:45	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			10/26/12 08:45	1
Dibromochloromethane	ND		2.0	0.70	ug/Kg			10/26/12 08:45	1
Tetrachloroethene	ND		2.0	0.49	ug/Kg			10/26/12 08:45	1
sec-Butylbenzene	ND		5.0	0.67	ug/Kg			10/26/12 08:45	1
m,p-Xylene	ND		2.0	0.80	ug/Kg			10/26/12 08:45	1
1,3-Dichloropropane	ND		2.0	0.63	ug/Kg			10/26/12 08:45	1
cis-1,2-Dichloroethene	ND		2.0	0.83	ug/Kg			10/26/12 08:45	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/Kg			10/26/12 08:45	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	1.0	ug/Kg			10/26/12 08:45	1
1,3-Dichlorobenzene	ND		2.0	0.84	ug/Kg			10/26/12 08:45	1
Carbon tetrachloride	ND		5.0	0.50	ug/Kg			10/26/12 08:45	1
1,1-Dichloropropene	ND		2.0	0.40	ug/Kg			10/26/12 08:45	1
2-Hexanone	ND		25	9.1	ug/Kg			10/26/12 08:45	1
2,2-Dichloropropane	ND		2.0	0.60	ug/Kg			10/26/12 08:45	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.57	ug/Kg			10/26/12 08:45	1
Acetone	ND		10	8.0	ug/Kg			10/26/12 08:45	1
Chloroform	ND		2.0	0.50	ug/Kg			10/26/12 08:45	1

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-61977/4

Matrix: Solid

Analysis Batch: 61977

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		2.0	0.50	ug/Kg			10/26/12 08:45	1
1,1,1-Trichloroethane	ND		2.0	0.70	ug/Kg			10/26/12 08:45	1
Bromomethane	ND		5.0	0.92	ug/Kg			10/26/12 08:45	1
Chloromethane	ND		5.0	1.0	ug/Kg			10/26/12 08:45	1
Dibromomethane	ND		2.0	0.90	ug/Kg			10/26/12 08:45	1
Bromochloromethane	ND		5.0	0.90	ug/Kg			10/26/12 08:45	1
Chloroethane	ND		5.0	1.5	ug/Kg			10/26/12 08:45	1
Vinyl chloride	ND		5.0	0.91	ug/Kg			10/26/12 08:45	1
Methylene Chloride	ND		20	6.5	ug/Kg			10/26/12 08:45	1
Carbon disulfide	ND		5.0	0.97	ug/Kg			10/26/12 08:45	1
Bromoform	ND		5.0	0.80	ug/Kg			10/26/12 08:45	1
Bromodichloromethane	ND		2.0	0.50	ug/Kg			10/26/12 08:45	1
1,1-Dichloroethane	ND		2.0	0.50	ug/Kg			10/26/12 08:45	1
1,1-Dichloroethene	ND		5.0	0.60	ug/Kg			10/26/12 08:45	1
Trichlorofluoromethane	ND		5.0	0.54	ug/Kg			10/26/12 08:45	1
Dichlorodifluoromethane	ND		5.0	1.5	ug/Kg			10/26/12 08:45	1
1,2-Dichloropropane	ND		2.0	0.80	ug/Kg			10/26/12 08:45	1
2-Butanone (MEK)	ND		10	6.0	ug/Kg			10/26/12 08:45	1
1,1,2-Trichloroethane	ND		2.0	0.87	ug/Kg			10/26/12 08:45	1
Trichloroethene	ND		2.0	0.50	ug/Kg			10/26/12 08:45	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.86	ug/Kg			10/26/12 08:45	1
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/Kg			10/26/12 08:45	1
Hexachlorobutadiene	ND		5.0	0.80	ug/Kg			10/26/12 08:45	1
Naphthalene	ND		5.0	1.1	ug/Kg			10/26/12 08:45	1
o-Xylene	ND		2.0	0.50	ug/Kg			10/26/12 08:45	1
2-Chlorotoluene	ND		5.0	0.87	ug/Kg			10/26/12 08:45	1
1,2-Dichlorobenzene	ND		2.0	0.95	ug/Kg			10/26/12 08:45	1
1,2,4-Trimethylbenzene	ND		2.0	0.78	ug/Kg			10/26/12 08:45	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/Kg			10/26/12 08:45	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			10/26/12 08:45	1
tert-Butylbenzene	ND		5.0	0.62	ug/Kg			10/26/12 08:45	1
Isopropylbenzene	ND		2.0	0.54	ug/Kg			10/26/12 08:45	1
p-Isopropyltoluene	ND		2.0	0.72	ug/Kg			10/26/12 08:45	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	108		80 - 120		10/26/12 08:45	1
4-Bromofluorobenzene (Surr)	107		80 - 120		10/26/12 08:45	1
Dibromofluoromethane (Surr)	116		80 - 125		10/26/12 08:45	1

Lab Sample ID: LCS 440-61977/5

Matrix: Solid

Analysis Batch: 61977

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Ethylbenzene	50.0	51.5		ug/Kg		103	70 - 125
Styrene	50.0	55.3		ug/Kg		111	75 - 130
cis-1,3-Dichloropropene	50.0	61.3		ug/Kg		123	75 - 125
trans-1,3-Dichloropropene	50.0	67.9	*	ug/Kg		136	70 - 135

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-61977/5

Matrix: Solid

Analysis Batch: 61977

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Propylbenzene	50.0	47.6		ug/Kg		95	70 - 130
n-Butylbenzene	50.0	46.9		ug/Kg		94	70 - 130
4-Chlorotoluene	50.0	51.1		ug/Kg		102	75 - 125
1,4-Dichlorobenzene	50.0	50.4		ug/Kg		101	75 - 120
1,2-Dibromoethane (EDB)	50.0	57.1		ug/Kg		114	70 - 130
1,2-Dichloroethane	50.0	66.0		ug/Kg		132	60 - 140
4-Methyl-2-pentanone (MIBK)	50.0	49.8		ug/Kg		100	40 - 145
1,3,5-Trimethylbenzene	50.0	52.2		ug/Kg		104	70 - 125
Bromobenzene	50.0	53.3		ug/Kg		107	75 - 120
Toluene	50.0	50.6		ug/Kg		101	70 - 125
Chlorobenzene	50.0	50.6		ug/Kg		101	75 - 120
1,2,4-Trichlorobenzene	50.0	49.7		ug/Kg		99	70 - 135
Dibromochloromethane	50.0	67.9		ug/Kg		136	65 - 140
Tetrachloroethene	50.0	56.0		ug/Kg		112	70 - 125
sec-Butylbenzene	50.0	47.2		ug/Kg		94	70 - 125
m,p-Xylene	100	102		ug/Kg		102	70 - 125
1,3-Dichloropropane	50.0	51.9		ug/Kg		104	70 - 125
cis-1,2-Dichloroethene	50.0	50.9		ug/Kg		102	70 - 125
trans-1,2-Dichloroethene	50.0	47.6		ug/Kg		95	70 - 125
Methyl-t-Butyl Ether (MTBE)	50.0	56.1		ug/Kg		112	60 - 140
1,3-Dichlorobenzene	50.0	52.7		ug/Kg		105	75 - 125
Carbon tetrachloride	50.0	71.7	*	ug/Kg		143	65 - 140
1,1-Dichloropropene	50.0	50.1		ug/Kg		100	70 - 130
2-Hexanone	50.0	49.0		ug/Kg		98	40 - 150
2,2-Dichloropropane	50.0	63.0		ug/Kg		126	60 - 145
1,1,1,2-Tetrachloroethane	50.0	68.1	*	ug/Kg		136	70 - 130
Acetone	50.0	61.2		ug/Kg		122	25 - 145
Chloroform	50.0	57.3		ug/Kg		115	70 - 130
Benzene	50.0	49.2		ug/Kg		98	65 - 120
1,1,1-Trichloroethane	50.0	61.8		ug/Kg		124	65 - 135
Bromomethane	50.0	59.7		ug/Kg		119	60 - 145
Chloromethane	50.0	43.3		ug/Kg		87	45 - 145
Dibromomethane	50.0	58.2		ug/Kg		116	70 - 130
Bromochloromethane	50.0	53.7		ug/Kg		107	70 - 135
Chloroethane	50.0	52.5		ug/Kg		105	60 - 140
Vinyl chloride	50.0	53.0		ug/Kg		106	55 - 135
Methylene Chloride	50.0	46.2		ug/Kg		92	55 - 135
Carbon disulfide	50.0	45.0		ug/Kg		90	50 - 130
Bromoform	50.0	57.5		ug/Kg		115	55 - 135
Bromodichloromethane	50.0	66.7		ug/Kg		133	70 - 135
1,1-Dichloroethane	50.0	49.2		ug/Kg		98	70 - 130
1,1-Dichloroethene	50.0	46.6		ug/Kg		93	70 - 125
Trichlorofluoromethane	50.0	65.1		ug/Kg		130	60 - 145
Dichlorodifluoromethane	50.0	46.8		ug/Kg		94	35 - 160
1,2-Dichloropropane	50.0	46.8		ug/Kg		94	70 - 130
2-Butanone (MEK)	50.0	48.7		ug/Kg		97	40 - 145
1,1,2-Trichloroethane	50.0	51.9		ug/Kg		104	65 - 135
Trichloroethene	50.0	54.6		ug/Kg		109	70 - 125

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-61977/5

Matrix: Solid

Analysis Batch: 61977

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	50.0	48.5		ug/Kg		97	55 - 140
1,2,3-Trichlorobenzene	50.0	45.5		ug/Kg		91	60 - 130
Hexachlorobutadiene	50.0	44.6		ug/Kg		89	60 - 135
Naphthalene	50.0	46.0		ug/Kg		92	55 - 135
o-Xylene	50.0	53.2		ug/Kg		106	70 - 125
2-Chlorotoluene	50.0	51.1		ug/Kg		102	70 - 125
1,2-Dichlorobenzene	50.0	52.1		ug/Kg		104	75 - 120
1,2,4-Trimethylbenzene	50.0	52.6		ug/Kg		105	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	51.5		ug/Kg		103	50 - 135
1,2,3-Trichloropropane	50.0	48.0		ug/Kg		96	60 - 135
tert-Butylbenzene	50.0	51.3		ug/Kg		103	70 - 125
Isopropylbenzene	50.0	49.1		ug/Kg		98	75 - 130
p-Isopropyltoluene	50.0	48.0		ug/Kg		96	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	109		80 - 120
4-Bromofluorobenzene (Surr)	108		80 - 120
Dibromofluoromethane (Surr)	119		80 - 125

Lab Sample ID: 440-27322-A-16 MS

Matrix: Solid

Analysis Batch: 61977

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	ND		50.0	59.1		ug/Kg		118	70 - 135
Styrene	ND		50.0	62.2		ug/Kg		124	70 - 140
cis-1,3-Dichloropropene	ND		50.0	65.2		ug/Kg		130	70 - 135
trans-1,3-Dichloropropene	ND	*	50.0	72.3		ug/Kg		145	60 - 145
N-Propylbenzene	ND		50.0	53.6		ug/Kg		107	65 - 140
n-Butylbenzene	ND		50.0	54.6		ug/Kg		109	55 - 145
4-Chlorotoluene	ND		50.0	56.3		ug/Kg		113	65 - 135
1,4-Dichlorobenzene	ND		50.0	55.7		ug/Kg		111	70 - 130
1,2-Dibromoethane (EDB)	ND		50.0	62.8		ug/Kg		126	65 - 140
1,2-Dichloroethane	ND		50.0	70.6		ug/Kg		141	60 - 150
4-Methyl-2-pentanone (MIBK)	ND		50.0	55.2		ug/Kg		110	40 - 155
1,3,5-Trimethylbenzene	ND		50.0	57.6		ug/Kg		115	65 - 135
Bromobenzene	ND		50.0	57.4		ug/Kg		115	65 - 140
Toluene	ND		50.0	56.5		ug/Kg		113	70 - 130
Chlorobenzene	ND		50.0	56.4		ug/Kg		113	70 - 130
1,2,4-Trichlorobenzene	ND		50.0	53.9		ug/Kg		108	50 - 140
Dibromochloromethane	ND		50.0	76.0	F	ug/Kg		152	60 - 145
Tetrachloroethene	ND		50.0	64.1		ug/Kg		128	65 - 135
sec-Butylbenzene	ND		50.0	52.8		ug/Kg		106	60 - 135
m,p-Xylene	ND		100	115		ug/Kg		115	70 - 130
1,3-Dichloropropane	ND		50.0	56.9		ug/Kg		114	65 - 140
cis-1,2-Dichloroethene	ND		50.0	55.2		ug/Kg		110	65 - 135
trans-1,2-Dichloroethene	ND		50.0	50.5		ug/Kg		101	70 - 135
Methyl-t-Butyl Ether (MTBE)	ND		50.0	59.2		ug/Kg		118	55 - 155

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-27322-A-16 MS

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 61977

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,3-Dichlorobenzene	ND		50.0	58.0		ug/Kg		116	70 - 130
Carbon tetrachloride	ND	*	50.0	77.3	F	ug/Kg		155	60 - 145
1,1-Dichloropropene	ND		50.0	55.8		ug/Kg		112	65 - 135
2-Hexanone	ND		50.0	54.8		ug/Kg		110	35 - 160
2,2-Dichloropropane	ND		50.0	68.7		ug/Kg		137	65 - 150
1,1,1,2-Tetrachloroethane	ND	*	50.0	73.5	F	ug/Kg		147	65 - 145
Acetone	ND		50.0	50.3		ug/Kg		101	20 - 145
Chloroform	ND		50.0	59.0		ug/Kg		118	65 - 135
Benzene	ND		50.0	53.2		ug/Kg		106	65 - 130
1,1,1-Trichloroethane	ND		50.0	65.2		ug/Kg		130	65 - 145
Bromomethane	ND		50.0	64.5		ug/Kg		129	60 - 155
Chloromethane	ND		50.0	44.5		ug/Kg		89	40 - 145
Dibromomethane	ND		50.0	61.9		ug/Kg		124	65 - 140
Bromochloromethane	ND		50.0	56.4		ug/Kg		113	65 - 145
Chloroethane	ND		50.0	51.4		ug/Kg		103	60 - 150
Vinyl chloride	ND		50.0	59.1		ug/Kg		118	55 - 140
Methylene Chloride	ND		50.0	48.5		ug/Kg		97	55 - 145
Carbon disulfide	ND		50.0	49.0		ug/Kg		98	40 - 140
Bromoform	ND		50.0	63.3		ug/Kg		127	50 - 145
Bromodichloromethane	ND		50.0	70.4		ug/Kg		141	65 - 145
1,1-Dichloroethane	ND		50.0	51.4		ug/Kg		103	65 - 135
1,1-Dichloroethene	ND		50.0	50.2		ug/Kg		100	65 - 135
Trichlorofluoromethane	ND		50.0	71.1		ug/Kg		142	55 - 155
Dichlorodifluoromethane	ND		50.0	56.9		ug/Kg		114	30 - 160
1,2-Dichloropropane	ND		50.0	51.2		ug/Kg		102	65 - 130
2-Butanone (MEK)	ND		50.0	45.9		ug/Kg		92	25 - 170
1,1,2-Trichloroethane	ND		50.0	57.3		ug/Kg		115	65 - 140
Trichloroethene	ND		50.0	61.1		ug/Kg		122	65 - 140
1,1,2,2-Tetrachloroethane	ND		50.0	51.0		ug/Kg		102	40 - 160
1,2,3-Trichlorobenzene	ND		50.0	48.4		ug/Kg		97	45 - 145
Hexachlorobutadiene	ND		50.0	50.7		ug/Kg		101	50 - 145
Naphthalene	ND		50.0	48.7		ug/Kg		97	40 - 150
o-Xylene	ND		50.0	60.1		ug/Kg		120	65 - 130
2-Chlorotoluene	ND		50.0	55.8		ug/Kg		112	60 - 135
1,2-Dichlorobenzene	ND		50.0	55.7		ug/Kg		111	70 - 130
1,2,4-Trimethylbenzene	ND		50.0	57.7		ug/Kg		115	65 - 140
1,2-Dibromo-3-Chloropropane	ND		50.0	56.4		ug/Kg		113	40 - 150
1,2,3-Trichloropropane	ND		50.0	51.0		ug/Kg		102	50 - 150
tert-Butylbenzene	ND		50.0	57.1		ug/Kg		114	60 - 140
Isopropylbenzene	ND		50.0	54.3		ug/Kg		109	70 - 145
p-Isopropyltoluene	ND		50.0	55.3		ug/Kg		111	60 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	110		80 - 120
4-Bromofluorobenzene (Surr)	109		80 - 120
Dibromofluoromethane (Surr)	112		80 - 125

QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-27322-A-16 MSD

Matrix: Solid

Analysis Batch: 61977

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Ethylbenzene	ND		49.8	59.7		ug/Kg		120	70 - 135	1	25
Styrene	ND		49.8	62.1		ug/Kg		125	70 - 140	0	25
cis-1,3-Dichloropropene	ND		49.8	64.6		ug/Kg		130	70 - 135	1	25
trans-1,3-Dichloropropene	ND	*	49.8	68.7		ug/Kg		138	60 - 145	5	25
N-Propylbenzene	ND		49.8	56.0		ug/Kg		112	65 - 140	4	25
n-Butylbenzene	ND		49.8	55.7		ug/Kg		112	55 - 145	2	30
4-Chlorotoluene	ND		49.8	58.3		ug/Kg		117	65 - 135	4	25
1,4-Dichlorobenzene	ND		49.8	57.5		ug/Kg		116	70 - 130	3	25
1,2-Dibromoethane (EDB)	ND		49.8	61.8		ug/Kg		124	65 - 140	2	25
1,2-Dichloroethane	ND		49.8	67.6		ug/Kg		136	60 - 150	4	25
4-Methyl-2-pentanone (MIBK)	ND		49.8	51.2		ug/Kg		103	40 - 155	8	40
1,3,5-Trimethylbenzene	ND		49.8	59.6		ug/Kg		120	65 - 135	3	25
Bromobenzene	ND		49.8	59.4		ug/Kg		119	65 - 140	4	25
Toluene	ND		49.8	55.9		ug/Kg		112	70 - 130	1	20
Chlorobenzene	ND		49.8	56.1		ug/Kg		113	70 - 130	1	25
1,2,4-Trichlorobenzene	ND		49.8	55.0		ug/Kg		110	50 - 140	2	30
Dibromochloromethane	ND		49.8	74.6	F	ug/Kg		150	60 - 145	2	25
Tetrachloroethene	ND		49.8	64.4		ug/Kg		129	65 - 135	0	25
sec-Butylbenzene	ND		49.8	55.1		ug/Kg		111	60 - 135	4	25
m,p-Xylene	ND		99.6	115		ug/Kg		116	70 - 130	0	25
1,3-Dichloropropane	ND		49.8	55.9		ug/Kg		112	65 - 140	2	25
cis-1,2-Dichloroethene	ND		49.8	54.6		ug/Kg		110	65 - 135	1	25
trans-1,2-Dichloroethene	ND		49.8	51.2		ug/Kg		103	70 - 135	1	25
Methyl-t-Butyl Ether (MTBE)	ND		49.8	57.5		ug/Kg		115	55 - 155	3	35
1,3-Dichlorobenzene	ND		49.8	60.2		ug/Kg		121	70 - 130	4	25
Carbon tetrachloride	ND	*	49.8	77.8	F	ug/Kg		156	60 - 145	1	25
1,1-Dichloropropene	ND		49.8	55.2		ug/Kg		111	65 - 135	1	20
2-Hexanone	ND		49.8	51.2		ug/Kg		103	35 - 160	7	40
2,2-Dichloropropane	ND		49.8	69.5		ug/Kg		139	65 - 150	1	25
1,1,1,2-Tetrachloroethane	ND	*	49.8	72.8	F	ug/Kg		146	65 - 145	1	20
Acetone	ND		49.8	50.4		ug/Kg		101	20 - 145	0	40
Chloroform	ND		49.8	58.7		ug/Kg		118	65 - 135	0	20
Benzene	ND		49.8	54.2		ug/Kg		109	65 - 130	2	20
1,1,1-Trichloroethane	ND		49.8	66.1		ug/Kg		133	65 - 145	1	20
Bromomethane	ND		49.8	64.6		ug/Kg		130	60 - 155	0	25
Chloromethane	ND		49.8	48.9		ug/Kg		98	40 - 145	9	25
Dibromomethane	ND		49.8	59.7		ug/Kg		120	65 - 140	4	25
Bromochloromethane	ND		49.8	55.6		ug/Kg		112	65 - 145	2	25
Chloroethane	ND		49.8	50.8		ug/Kg		102	60 - 150	1	25
Vinyl chloride	ND		49.8	61.3		ug/Kg		123	55 - 140	4	30
Methylene Chloride	ND		49.8	48.5		ug/Kg		97	55 - 145	0	25
Carbon disulfide	ND		49.8	49.4		ug/Kg		99	40 - 140	1	20
Bromoform	ND		49.8	60.5		ug/Kg		121	50 - 145	5	30
Bromodichloromethane	ND		49.8	69.2		ug/Kg		139	65 - 145	2	20
1,1-Dichloroethane	ND		49.8	53.0		ug/Kg		106	65 - 135	3	25
1,1-Dichloroethene	ND		49.8	51.0		ug/Kg		102	65 - 135	2	25
Trichlorofluoromethane	ND		49.8	71.8		ug/Kg		144	55 - 155	1	25
Dichlorodifluoromethane	ND		49.8	56.1		ug/Kg		113	30 - 160	1	35

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-27322-A-16 MSD

Matrix: Solid

Analysis Batch: 61977

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
1,2-Dichloropropane	ND		49.8	51.0		ug/Kg		102	65 - 130	0	20
2-Butanone (MEK)	ND		49.8	47.7		ug/Kg		96	25 - 170	4	40
1,1,2-Trichloroethane	ND		49.8	54.8		ug/Kg		110	65 - 140	4	30
Trichloroethene	ND		49.8	62.3		ug/Kg		125	65 - 140	2	25
1,1,1,2-Tetrachloroethane	ND		49.8	49.8		ug/Kg		100	40 - 160	2	30
1,2,3-Trichlorobenzene	ND		49.8	49.3		ug/Kg		99	45 - 145	2	30
Hexachlorobutadiene	ND		49.8	52.3		ug/Kg		105	50 - 145	3	35
Naphthalene	ND		49.8	49.8		ug/Kg		100	40 - 150	2	40
o-Xylene	ND		49.8	60.1		ug/Kg		121	65 - 130	0	25
2-Chlorotoluene	ND		49.8	57.8		ug/Kg		116	60 - 135	4	25
1,2-Dichlorobenzene	ND		49.8	57.3		ug/Kg		115	70 - 130	3	25
1,2,4-Trimethylbenzene	ND		49.8	60.6		ug/Kg		122	65 - 140	5	25
1,2-Dibromo-3-Chloropropane	ND		49.8	57.1		ug/Kg		115	40 - 150	1	30
1,2,3-Trichloropropane	ND		49.8	50.9		ug/Kg		102	50 - 150	0	30
tert-Butylbenzene	ND		49.8	59.4		ug/Kg		119	60 - 140	4	25
Isopropylbenzene	ND		49.8	56.9		ug/Kg		114	70 - 145	5	25
p-Isopropyltoluene	ND		49.8	57.9		ug/Kg		116	60 - 140	5	25

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	109		80 - 120
4-Bromofluorobenzene (Surr)	105		80 - 120
Dibromofluoromethane (Surr)	111		80 - 125

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-61633/1-A

Matrix: Solid

Analysis Batch: 61853

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 61633

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aroclor 1016	ND		50	12	ug/Kg		10/25/12 06:56	10/25/12 21:06	1
Aroclor 1221	ND		50	12	ug/Kg		10/25/12 06:56	10/25/12 21:06	1
Aroclor 1232	ND		50	12	ug/Kg		10/25/12 06:56	10/25/12 21:06	1
Aroclor 1242	ND		50	12	ug/Kg		10/25/12 06:56	10/25/12 21:06	1
Aroclor 1248	ND		50	12	ug/Kg		10/25/12 06:56	10/25/12 21:06	1
Aroclor 1254	ND		50	12	ug/Kg		10/25/12 06:56	10/25/12 21:06	1
Aroclor 1260	ND		50	12	ug/Kg		10/25/12 06:56	10/25/12 21:06	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl (Surr)	91		45 - 120	10/25/12 06:56	10/25/12 21:06	1

Lab Sample ID: LCS 440-61633/2-A

Matrix: Solid

Analysis Batch: 61853

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 61633

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Aroclor 1016	267	225		ug/Kg		84	65 - 115

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 440-61633/2-A

Matrix: Solid

Analysis Batch: 61853

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 61633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1260	267	242		ug/Kg		91	65 - 115
Surrogate		%Recovery	Qualifier				Limits
DCB Decachlorobiphenyl (Surr)		91					45 - 120

Lab Sample ID: 440-27479-1 MS

Matrix: Solid

Analysis Batch: 61853

Client Sample ID: 125727_3S1

Prep Type: Total/NA

Prep Batch: 61633

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		266	236		ug/Kg		89	50 - 120
Aroclor 1260	ND		266	243		ug/Kg		91	50 - 125
Surrogate		%Recovery		%Recovery	Qualifier				Limits
DCB Decachlorobiphenyl (Surr)		89		89					45 - 120

Lab Sample ID: 440-27479-1 MSD

Matrix: Solid

Analysis Batch: 61853

Client Sample ID: 125727_3S1

Prep Type: Total/NA

Prep Batch: 61633

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Aroclor 1016	ND		267	237		ug/Kg		89	50 - 120	0	30
Aroclor 1260	ND		267	243		ug/Kg		91	50 - 125	0	30
Surrogate		%Recovery		%Recovery	Qualifier				Limits		
DCB Decachlorobiphenyl (Surr)		89		89					45 - 120		

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-61731/1-A

Matrix: Solid

Analysis Batch: 62213

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 61731

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	1.1	mg/Kg		10/25/12 11:13	10/26/12 18:58	5
Arsenic	ND		2.0	0.81	mg/Kg		10/25/12 11:13	10/26/12 18:58	5
Barium	ND		1.0	0.80	mg/Kg		10/25/12 11:13	10/26/12 18:58	5
Beryllium	ND		0.50	0.20	mg/Kg		10/25/12 11:13	10/26/12 18:58	5
Cadmium	ND		0.50	0.20	mg/Kg		10/25/12 11:13	10/26/12 18:58	5
Chromium	ND		1.0	0.30	mg/Kg		10/25/12 11:13	10/26/12 18:58	5
Cobalt	ND		1.0	0.30	mg/Kg		10/25/12 11:13	10/26/12 18:58	5
Copper	ND		2.0	0.38	mg/Kg		10/25/12 11:13	10/26/12 18:58	5
Lead	ND		2.0	0.50	mg/Kg		10/25/12 11:13	10/26/12 18:58	5
Molybdenum	ND		2.0	0.20	mg/Kg		10/25/12 11:13	10/26/12 18:58	5
Nickel	ND		2.0	0.20	mg/Kg		10/25/12 11:13	10/26/12 18:58	5
Selenium	ND		2.0	1.0	mg/Kg		10/25/12 11:13	10/26/12 18:58	5
Thallium	ND		10	0.80	mg/Kg		10/25/12 11:13	10/26/12 18:58	5

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 440-61731/1-A

Matrix: Solid

Analysis Batch: 62213

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 61731

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	ND		1.0	0.30	mg/Kg		10/25/12 11:13	10/26/12 18:58	5
Zinc	2.46	J	5.0	0.50	mg/Kg		10/25/12 11:13	10/26/12 18:58	5
Silver	ND		1.0	0.80	mg/Kg		10/25/12 11:13	10/26/12 18:58	5

Lab Sample ID: LCS 440-61731/2-A

Matrix: Solid

Analysis Batch: 62213

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 61731

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	44.5		mg/Kg		89	80 - 120
Arsenic	50.0	43.1		mg/Kg		86	80 - 120
Barium	50.0	44.2		mg/Kg		88	80 - 120
Beryllium	50.0	44.2		mg/Kg		88	80 - 120
Cadmium	50.0	42.0		mg/Kg		84	80 - 120
Chromium	50.0	44.7		mg/Kg		89	80 - 120
Cobalt	50.0	42.9		mg/Kg		86	80 - 120
Copper	50.0	44.6		mg/Kg		89	80 - 120
Lead	50.0	44.5		mg/Kg		89	80 - 120
Molybdenum	50.0	45.9		mg/Kg		92	80 - 120
Nickel	50.0	43.5		mg/Kg		87	80 - 120
Selenium	50.0	42.4		mg/Kg		85	80 - 120
Thallium	50.0	43.0		mg/Kg		86	80 - 120
Zinc	50.0	42.4		mg/Kg		85	80 - 120
Silver	25.0	22.3		mg/Kg		89	80 - 120

Lab Sample ID: 440-27479-1 MS

Matrix: Solid

Analysis Batch: 62213

Client Sample ID: 125727_3S1

Prep Type: Total/NA

Prep Batch: 61731

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.4	J	50.8	47.4		mg/Kg		91	75 - 125
Arsenic	12		50.8	55.1		mg/Kg		86	75 - 125
Barium	63		50.8	117		mg/Kg		107	75 - 125
Beryllium	0.49	J	50.8	49.7		mg/Kg		97	75 - 125
Cadmium	0.28	J	50.8	46.2		mg/Kg		90	75 - 125
Chromium	15		50.8	64.2		mg/Kg		98	75 - 125
Cobalt	3.8		50.8	48.8		mg/Kg		89	75 - 125
Copper	9.8		50.8	62.2		mg/Kg		103	75 - 125
Lead	18		50.8	64.2		mg/Kg		90	75 - 125
Molybdenum	1.4	J	50.8	49.8		mg/Kg		95	75 - 125
Nickel	9.4		50.8	54.9		mg/Kg		90	75 - 125
Selenium	ND		50.8	43.7		mg/Kg		86	75 - 125
Thallium	ND		50.8	43.2		mg/Kg		85	75 - 125
Zinc	310		50.8	432	4	mg/Kg		234	75 - 125
Silver	ND		25.4	24.6		mg/Kg		97	75 - 125

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-27479-1 MSD

Matrix: Solid

Analysis Batch: 62213

Client Sample ID: 125727_3S1

Prep Type: Total/NA

Prep Batch: 61731

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Antimony	1.4	J	49.8	45.0		mg/Kg		88	75 - 125	5	20
Arsenic	12		49.8	54.2		mg/Kg		85	75 - 125	2	20
Barium	63		49.8	112		mg/Kg		99	75 - 125	4	20
Beryllium	0.49	J	49.8	48.7		mg/Kg		97	75 - 125	2	20
Cadmium	0.28	J	49.8	48.0		mg/Kg		96	75 - 125	4	20
Chromium	15		49.8	62.0		mg/Kg		95	75 - 125	4	20
Cobalt	3.8		49.8	50.5		mg/Kg		94	75 - 125	3	20
Copper	9.8		49.8	59.8		mg/Kg		101	75 - 125	4	20
Lead	18		49.8	61.0		mg/Kg		86	75 - 125	5	20
Molybdenum	1.4	J	49.8	46.6		mg/Kg		91	75 - 125	7	20
Nickel	9.4		49.8	57.5		mg/Kg		97	75 - 125	5	20
Selenium	ND		49.8	42.8		mg/Kg		86	75 - 125	2	20
Thallium	ND		49.8	40.8		mg/Kg		82	75 - 125	6	20
Zinc	310		49.8	405	4	mg/Kg		182	75 - 125	7	20
Silver	ND		24.9	22.7		mg/Kg		91	75 - 125	8	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 440-62050/1-A

Matrix: Solid

Analysis Batch: 62620

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62050

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND	^	0.020	0.012	mg/Kg		10/28/12 15:40	10/29/12 13:54	1

Lab Sample ID: LCS 440-62050/2-A

Matrix: Solid

Analysis Batch: 62620

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62050

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Mercury	0.800	0.772	^	mg/Kg		96	80 - 120

Lab Sample ID: 440-27383-B-1-B MS

Matrix: Solid

Analysis Batch: 62620

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 62050

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				Limits
Mercury	0.030	^	0.816	0.780	^	mg/Kg		92	70 - 130

Lab Sample ID: 440-27383-B-1-C MSD

Matrix: Solid

Analysis Batch: 62620

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 62050

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Mercury	0.030	^	0.800	0.766	^	mg/Kg		92	70 - 130	2	20

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 440-62051/1-A
Matrix: Solid
Analysis Batch: 62706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62051

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.012	mg/Kg		10/28/12 15:40	10/29/12 16:12	1

Lab Sample ID: LCS 440-62051/2-A
Matrix: Solid
Analysis Batch: 62706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62051

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.800	0.793		mg/Kg		99	80 - 120

Lab Sample ID: 440-27479-4 MS
Matrix: Solid
Analysis Batch: 62706

Client Sample ID: 125727_4S4
Prep Type: Total/NA
Prep Batch: 62051

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.023		0.800	0.832		mg/Kg		101	70 - 130

Lab Sample ID: 440-27479-4 MSD
Matrix: Solid
Analysis Batch: 62706

Client Sample ID: 125727_4S4
Prep Type: Total/NA
Prep Batch: 62051

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.023		0.816	0.911		mg/Kg		109	70 - 130	9	20

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Lab Sample ID: F2L050000010B
Matrix: Solid
Analysis Batch: 2340010

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 2340010_P

Analyte	MB Result	MB Qualifier	Count Uncert. (2.000σ+/-)	Total Uncert. (2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	0.06	U	0.13	0.13	0.24	pCi/g	12/05/12 00:00	12/05/12 11:49	1

Lab Sample ID: F2L050000010C
Matrix: Solid
Analysis Batch: 2340010

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 2340010_P

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2.000σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Tritium	12.9	12.3		1.3	0.2	pCi/g	95	80 - 114

Lab Sample ID: F2J260434002S
Matrix: Solid
Analysis Batch: 2340010

Client Sample ID: 125727_2S2 (440-27479-2)
Prep Type: Total
Prep Batch: 2340010_P

Analyte	Sample Result	Sample Qual	Spike Added	MS1 Result	MS1 Qual	Total Uncert. (2.000σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Tritium	0.11		12.7	12.7		1.3	0.2	pCi/g	99	78 - 122

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD (Continued)

Lab Sample ID: F2J260434001X
 Matrix: Solid
 Analysis Batch: 2340010

Client Sample ID: 125727_3S1 (440-27479-1) DUP
 Prep Type: Total
 Prep Batch: 2340010_P

Analyte	Sample Result	Sample Qual	LR1 Result	LR1 Qual	Total Uncert. (2.000σ+/-)	MDC	Unit	RPD	Limit
Tritium	-0.10	U	-0.0006	U	0.13	0.24	pCi/g	198	40

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Lab Sample ID: F2K090000028B
 Matrix: Solid
 Analysis Batch: 2314028

Client Sample ID: Method Blank
 Prep Type: Total
 Prep Batch: 2314028_P

Analyte	MB Result	MB Qualifier	Count Uncert. (2.000σ+/-)	Total Uncert. (2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium 234	0.027		0.022	0.022	0.022	pCi/g	11/09/12 00:00	11/13/12 20:20	1
Uranium 235/236	-0.0023	U	0.0033	0.0033	0.025	pCi/g	11/09/12 00:00	11/13/12 20:20	1
Uranium 238	0.005	U	0.011	0.011	0.022	pCi/g	11/09/12 00:00	11/13/12 20:20	1

Tracer	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	90		30 - 110	11/09/12 00:00	11/13/12 20:20	1

Lab Sample ID: F2K090000028C
 Matrix: Solid
 Analysis Batch: 2314028

Client Sample ID: Lab Control Sample
 Prep Type: Total
 Prep Batch: 2314028_P

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2.000σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Uranium 234	1.63	1.64		0.21	0.02	pCi/g	100	84 - 120
Uranium 238	1.70	1.76		0.22	0.01	pCi/g	104	82 - 122

Tracer	LCS %Yield	LCS Qualifier	Limits
Uranium-232	89		30 - 110

Lab Sample ID: F2J260434001X
 Matrix: Solid
 Analysis Batch: 2314028

Client Sample ID: 125727_3S1 (440-27479-1) DUP
 Prep Type: Total
 Prep Batch: 2314028_P

Analyte	Sample Result	Sample Qual	LR1 Result	LR1 Qual	Total Uncert. (2.000σ+/-)	MDC	Unit	RPD	Limit
Uranium 234	0.71		0.59		0.11	0.02	pCi/g	17	40
Uranium 235/236	0.021		0.022		0.022	0.015	pCi/g	4	
Uranium 238	0.83		0.70		0.13	0.02	pCi/g	17	40

Tracer	LR1 %Yield	LR1 Qualifier	Limits
Uranium-232	76		30 - 110

QC Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD (Continued)

Lab Sample ID: F3F06000025B
Matrix: Solid
Analysis Batch: 3157025

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 3157025_P

Analyte	MB MB		Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2.000σ+/-)	Uncert. (2.000σ+/-)					
Uranium 234	0.013	U	0.019	0.019	0.032	pCi/g	06/06/13 00:00	06/11/13 10:41	1
Uranium 235/236	0.0047	U	0.0094	0.0094	0.013	pCi/g	06/06/13 00:00	06/11/13 10:41	1
Uranium 238	-0.0047	U	0.0094	0.0094	0.031	pCi/g	06/06/13 00:00	06/11/13 10:41	1
Tracer	MB MB		Limits		Prepared	Analyzed	Dil Fac		
%Yield	Qualifier								
Uranium-232	89		30 - 110		06/06/13 00:00	06/11/13 10:41	1		

Lab Sample ID: F3F06000025C
Matrix: Solid
Analysis Batch: 3157025

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 3157025_P

Analyte	Spike Added	LCS LCS		Total	MDC	Unit	%Rec	%Rec. Limits
		Result	Qual	Uncert. (2.000σ+/-)				
Uranium 234	1.59	1.64		0.21	0.02	pCi/g	103	84 - 120
Uranium 238	1.63	1.76		0.22	0.02	pCi/g	108	82 - 122
Tracer	LCS LCS		Limits		Prepared	Analyzed	Dil Fac	
%Yield	Qualifier							
Uranium-232	85		30 - 110					

Lab Sample ID: F2J260434002X
Matrix: Solid
Analysis Batch: 3157025

Client Sample ID: 125727_2S2 (440-27479-2) DUP
Prep Type: Total
Prep Batch: 3157025_P

Analyte	Sample Sample		LR1 LR1		Total	MDC	Unit	RPD	Limit
	Result	Qual	Result	Qual	Uncert. (2.000σ+/-)				
Uranium 234	0.70		0.70		0.17	0.04	pCi/g	1	40
Uranium 235/236	0.054		0.039		0.042	0.048	pCi/g	31	
Uranium 238	0.69		0.58		0.15	0.02	pCi/g	17	40
Tracer	LR1 LR1		Limits		Prepared	Analyzed	Dil Fac		
%Yield	Qualifier								
Uranium-232	42		30 - 110						

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Lab Sample ID: F2L05000023B
Matrix: Solid
Analysis Batch: 2340023

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 2340023_P

Analyte	MB MB		Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2.000σ+/-)	Uncert. (2.000σ+/-)					
Actinium 228	0.034	U	0.032	0.032	0.080	pCi/g	12/05/12 00:00	12/05/12 18:14	1
Antimony 125	0.013	U	0.019	0.019	0.038	pCi/g	12/05/12 00:00	12/05/12 18:14	1
Bismuth 212	0.025	U	0.032	0.032	0.13	pCi/g	12/05/12 00:00	12/05/12 18:14	1
Bismuth 214	0.044	J	0.033	0.033	0.042	pCi/g	12/05/12 00:00	12/05/12 18:14	1
Cesium 134	0.0109	J	0.0097	0.0098	0.013	pCi/g	12/05/12 00:00	12/05/12 18:14	1

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD (Continued)

Lab Sample ID: F2L050000023B

Matrix: Solid

Analysis Batch: 2340023

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 2340023_P

Analyte	MB	MB	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2.000σ+/-)	Uncert. (2.000σ+/-)					
Cesium 137	0.0057	U	0.0093	0.0094	0.016	pCi/g	12/05/12 00:00	12/05/12 18:14	1
Cobalt 60	0.0073	J	0.0078	0.0079	0.016	pCi/g	12/05/12 00:00	12/05/12 18:14	1
Europium 152	0.027	J	0.023	0.023	0.036	pCi/g	12/05/12 00:00	12/05/12 18:14	1
Europium 154	-0.026	U	0.063	0.063	0.11	pCi/g	12/05/12 00:00	12/05/12 18:14	1
Europium 155	-0.004	U	0.023	0.023	0.039	pCi/g	12/05/12 00:00	12/05/12 18:14	1
Lead 212	0.002	U	0.016	0.016	0.026	pCi/g	12/05/12 00:00	12/05/12 18:14	1
Lead 214	0.043	J	0.020	0.021	0.033	pCi/g	12/05/12 00:00	12/05/12 18:14	1
Potassium 40	0.03	U	0.12	0.12	0.22	pCi/g	12/05/12 00:00	12/05/12 18:14	1
Protactinium 231	-0.03	U	0.11	0.11	0.72	pCi/g	12/05/12 00:00	12/05/12 18:14	1
Radium (226)	0.044	J	0.033	0.033	0.042	pCi/g	12/05/12 00:00	12/05/12 18:14	1
Sodium 22	-0.005	U	0.011	0.011	0.019	pCi/g	12/05/12 00:00	12/05/12 18:14	1
Thallium 208	0.006	U	0.016	0.016	0.019	pCi/g	12/05/12 00:00	12/05/12 18:14	1
Actinium 227	0.124		0.041	0.043	0.15	pCi/g	12/05/12 00:00	12/05/12 18:14	1

Lab Sample ID: F2L050000023C

Matrix: Solid

Analysis Batch: 2340023

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 2340023_P

Analyte	Spike Added	LCS Result	LCS Qual	Total	MDC	Unit	%Rec	%Rec.
				Uncert. (2.000σ+/-)				Limits
Radium (226)	12.2	10.2		1.3	0.4	pCi/g	83	73 - 107
Thorium 232	9.50	10		1.4	0.7	pCi/g	105	82 - 126

Lab Sample ID: F2J260434001X

Matrix: Solid

Analysis Batch: 2340023

Client Sample ID: 125727_3S1 (440-27479-1) DUP

Prep Type: Total

Prep Batch: 2340023_P

Analyte	Sample Result	Sample Qual	LR1 Result	LR1 Qual	Total	MDC	Unit	RPD	RPD
					Uncert. (2.000σ+/-)				Limit
Actinium 228	1.05		1.10		0.13	0.10	pCi/g		5
Antimony 125	0.092	J	0.121	J	0.033	0.050	pCi/g		27
Bismuth 212	0.70	J	0.91	J	0.21	0.16	pCi/g		26
Bismuth 214	0.693	J	0.668	J	0.085	0.043	pCi/g		4
Cesium 134	0.012	U	0.0155	J	0.0093	0.014	pCi/g		29
Cesium 137	0.006	U	0.012	J	0.014	0.024	pCi/g		66
Cobalt 60	-0.008	U	0.005	U	0.011	0.024	pCi/g		818
Europium 152	0.0090	U	-0.016	U	0.034	0.056	pCi/g		686
Europium 154	-0.049	U	0.005	U	0.034	0.14	pCi/g		243
Europium 155	0.062	J	0.027	U	0.039	0.063	pCi/g		79
Lead 212	1.04		1.08		0.14	0.03	pCi/g		4
Lead 214	0.661	J	0.713	J	0.089	0.050	pCi/g		8
Potassium 40	19.8		19.6		2.1	0.2	pCi/g		1
Protactinium 231	0.032	U	0.36	U	0.57	0.94	pCi/g		167
Radium (226)	0.693	J	0.668	J	0.085	0.043	pCi/g		4
Sodium 22	-0.0002	U	-0.006	U	0.016	0.027	pCi/g		186
Thallium 208	0.338	J	0.341	J	0.044	0.022	pCi/g		0.8
Actinium 227	0.04	U	0.039	U	0.090	0.23	pCi/g		0.2

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QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Lab Sample ID: F3G01000022B

Matrix: Solid

Analysis Batch: 3182022

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 3182022_P

Analyte	MB MB		Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2.000σ+/-)	Uncert. (2.000σ+/-)					
Strontium Total	-0.028	U	0.024	0.024	0.046	pCi/g	07/01/13 00:00	07/12/13 05:43	1
Tracer	MB MB		Limits		Prepared	Analyzed	Dil Fac		
Sr Tracer	%Yield	Qualifier	Limits						
Sr Tracer	82		40 - 110		07/01/13 00:00	07/12/13 05:43	1		

Lab Sample ID: F3G01000022C

Matrix: Solid

Analysis Batch: 3182022

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 3182022_P

Analyte	Spike Added	LCS Result	LCS Qual	Total	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2.000σ+/-)				
Strontium Total	3.71	3.19		0.33	0.05	pCi/g	86	70 - 130
Tracer	LCS LCS		Limits		Prepared	Analyzed	Dil Fac	
Sr Tracer	%Yield	Qualifier	Limits					
Sr Tracer	78		40 - 110					

Lab Sample ID: F2J260434001X

Matrix: Solid

Analysis Batch: 3182022

Client Sample ID: 125727_3S1 (440-27479-1) DUP

Prep Type: Total

Prep Batch: 3182022_P

Analyte	Sample	Sample	LR1	LR1	Total	MDC	Unit	RPD	RPD
	Result	Qual	Result	Qual	Uncert. (2.000σ+/-)				Limit
Strontium Total	0.043	J	-0.004	U	0.022	0.038	pCi/g	244	40
Tracer	LR1 LR1		Limits		Prepared	Analyzed	Dil Fac		
Sr Tracer	%Yield	Qualifier	Limits						
Sr Tracer	79		40 - 110						

QC Association Summary

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

GC/MS VOA

Prep Batch: 61163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27327-E-8-B MS	Matrix Spike	Total/NA	Solid	5035	
440-27327-F-8-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 61858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27327-E-8-B MS	Matrix Spike	Total/NA	Solid	8260B	61163
440-27327-F-8-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	61163
440-27479-1	125727_3S1	Total/NA	Solid	8260B	
440-27479-2	125727_2S2	Total/NA	Solid	8260B	
440-27479-3	125727_3S3	Total/NA	Solid	8260B	
440-27479-4	125727_4S4	Total/NA	Solid	8260B	
440-27479-6	125727_6S6	Total/NA	Solid	8260B	
440-27479-7	125727_7S7	Total/NA	Solid	8260B	
440-27479-8	125727_6S8	Total/NA	Solid	8260B	
440-27479-9	125727_8S9	Total/NA	Solid	8260B	
440-27479-10	125727_5S10	Total/NA	Solid	8260B	
LCS 440-61858/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 440-61858/4	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 61977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27322-A-16 MS	Matrix Spike	Total/NA	Solid	8260B	
440-27322-A-16 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	
440-27479-5	125727_7S5	Total/NA	Solid	8260B	
440-27479-11	125727_8S11	Total/NA	Solid	8260B	
LCS 440-61977/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 440-61977/4	Method Blank	Total/NA	Solid	8260B	

GC Semi VOA

Prep Batch: 61633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27479-1	125727_3S1	Total/NA	Solid	3546	
440-27479-1 MS	125727_3S1	Total/NA	Solid	3546	
440-27479-1 MSD	125727_3S1	Total/NA	Solid	3546	
440-27479-2	125727_2S2	Total/NA	Solid	3546	
440-27479-3	125727_3S3	Total/NA	Solid	3546	
440-27479-4	125727_4S4	Total/NA	Solid	3546	
440-27479-5	125727_7S5	Total/NA	Solid	3546	
440-27479-6	125727_6S6	Total/NA	Solid	3546	
440-27479-7	125727_7S7	Total/NA	Solid	3546	
440-27479-8	125727_6S8	Total/NA	Solid	3546	
440-27479-9	125727_8S9	Total/NA	Solid	3546	
440-27479-10	125727_5S10	Total/NA	Solid	3546	
440-27479-11	125727_8S11	Total/NA	Solid	3546	
LCS 440-61633/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 440-61633/1-A	Method Blank	Total/NA	Solid	3546	

QC Association Summary

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

GC Semi VOA (Continued)

Analysis Batch: 61853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27479-1	125727_3S1	Total/NA	Solid	8082	61633
440-27479-1 MS	125727_3S1	Total/NA	Solid	8082	61633
440-27479-1 MSD	125727_3S1	Total/NA	Solid	8082	61633
440-27479-2	125727_2S2	Total/NA	Solid	8082	61633
440-27479-3	125727_3S3	Total/NA	Solid	8082	61633
440-27479-4	125727_4S4	Total/NA	Solid	8082	61633
440-27479-5	125727_7S5	Total/NA	Solid	8082	61633
440-27479-6	125727_6S6	Total/NA	Solid	8082	61633
440-27479-7	125727_7S7	Total/NA	Solid	8082	61633
440-27479-8	125727_6S8	Total/NA	Solid	8082	61633
440-27479-9	125727_8S9	Total/NA	Solid	8082	61633
440-27479-10	125727_5S10	Total/NA	Solid	8082	61633
440-27479-11	125727_8S11	Total/NA	Solid	8082	61633
LCS 440-61633/2-A	Lab Control Sample	Total/NA	Solid	8082	61633
MB 440-61633/1-A	Method Blank	Total/NA	Solid	8082	61633

Metals

Prep Batch: 61731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27479-1	125727_3S1	Total/NA	Solid	3050B	
440-27479-1 MS	125727_3S1	Total/NA	Solid	3050B	
440-27479-1 MSD	125727_3S1	Total/NA	Solid	3050B	
440-27479-2	125727_2S2	Total/NA	Solid	3050B	
440-27479-3	125727_3S3	Total/NA	Solid	3050B	
440-27479-4	125727_4S4	Total/NA	Solid	3050B	
440-27479-5	125727_7S5	Total/NA	Solid	3050B	
440-27479-6	125727_6S6	Total/NA	Solid	3050B	
440-27479-7	125727_7S7	Total/NA	Solid	3050B	
440-27479-8	125727_6S8	Total/NA	Solid	3050B	
440-27479-9	125727_8S9	Total/NA	Solid	3050B	
440-27479-10	125727_5S10	Total/NA	Solid	3050B	
440-27479-11	125727_8S11	Total/NA	Solid	3050B	
LCS 440-61731/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 440-61731/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 62050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27383-B-1-B MS	Matrix Spike	Total/NA	Solid	7471A	
440-27383-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	
440-27479-1	125727_3S1	Total/NA	Solid	7471A	
440-27479-2	125727_2S2	Total/NA	Solid	7471A	
440-27479-3	125727_3S3	Total/NA	Solid	7471A	
LCS 440-62050/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 440-62050/1-A	Method Blank	Total/NA	Solid	7471A	

Prep Batch: 62051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27479-4	125727_4S4	Total/NA	Solid	7471A	
440-27479-4 MS	125727_4S4	Total/NA	Solid	7471A	

TestAmerica Irvine

QC Association Summary

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Metals (Continued)

Prep Batch: 62051 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27479-4 MSD	125727_4S4	Total/NA	Solid	7471A	
440-27479-5	125727_7S5	Total/NA	Solid	7471A	
440-27479-6	125727_6S6	Total/NA	Solid	7471A	
440-27479-7	125727_7S7	Total/NA	Solid	7471A	
440-27479-8	125727_6S8	Total/NA	Solid	7471A	
440-27479-9	125727_8S9	Total/NA	Solid	7471A	
440-27479-10	125727_5S10	Total/NA	Solid	7471A	
440-27479-11	125727_8S11	Total/NA	Solid	7471A	
LCS 440-62051/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 440-62051/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 62213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27479-1	125727_3S1	Total/NA	Solid	6010B	61731
440-27479-1 MS	125727_3S1	Total/NA	Solid	6010B	61731
440-27479-1 MSD	125727_3S1	Total/NA	Solid	6010B	61731
440-27479-2	125727_2S2	Total/NA	Solid	6010B	61731
440-27479-3	125727_3S3	Total/NA	Solid	6010B	61731
440-27479-4	125727_4S4	Total/NA	Solid	6010B	61731
440-27479-5	125727_7S5	Total/NA	Solid	6010B	61731
440-27479-6	125727_6S6	Total/NA	Solid	6010B	61731
440-27479-7	125727_7S7	Total/NA	Solid	6010B	61731
440-27479-8	125727_6S8	Total/NA	Solid	6010B	61731
440-27479-9	125727_8S9	Total/NA	Solid	6010B	61731
440-27479-10	125727_5S10	Total/NA	Solid	6010B	61731
440-27479-11	125727_8S11	Total/NA	Solid	6010B	61731
LCS 440-61731/2-A	Lab Control Sample	Total/NA	Solid	6010B	61731
MB 440-61731/1-A	Method Blank	Total/NA	Solid	6010B	61731

Analysis Batch: 62620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27383-B-1-B MS	Matrix Spike	Total/NA	Solid	7471A	62050
440-27383-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	62050
440-27479-1	125727_3S1	Total/NA	Solid	7471A	62050
440-27479-2	125727_2S2	Total/NA	Solid	7471A	62050
440-27479-3	125727_3S3	Total/NA	Solid	7471A	62050
LCS 440-62050/2-A	Lab Control Sample	Total/NA	Solid	7471A	62050
MB 440-62050/1-A	Method Blank	Total/NA	Solid	7471A	62050

Analysis Batch: 62706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27479-4	125727_4S4	Total/NA	Solid	7471A	62051
440-27479-4 MS	125727_4S4	Total/NA	Solid	7471A	62051
440-27479-4 MSD	125727_4S4	Total/NA	Solid	7471A	62051
440-27479-5	125727_7S5	Total/NA	Solid	7471A	62051
440-27479-6	125727_6S6	Total/NA	Solid	7471A	62051
440-27479-8	125727_6S8	Total/NA	Solid	7471A	62051
440-27479-9	125727_8S9	Total/NA	Solid	7471A	62051
440-27479-10	125727_5S10	Total/NA	Solid	7471A	62051
440-27479-11	125727_8S11	Total/NA	Solid	7471A	62051
LCS 440-62051/2-A	Lab Control Sample	Total/NA	Solid	7471A	62051

TestAmerica Irvine

QC Association Summary

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Metals (Continued)

Analysis Batch: 62706 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-62051/1-A	Method Blank	Total/NA	Solid	7471A	62051

Analysis Batch: 62726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27479-7	125727_7S7	Total/NA	Solid	7471A	62051

General Chemistry

Analysis Batch: 2340017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27479-1	125727_3S1	Total	Solid	160.3 MOD	
440-27479-2	125727_2S2	Total	Solid	160.3 MOD	
440-27479-3	125727_3S3	Total	Solid	160.3 MOD	
440-27479-4	125727_4S4	Total	Solid	160.3 MOD	
440-27479-5	125727_7S5	Total	Solid	160.3 MOD	
440-27479-6	125727_6S6	Total	Solid	160.3 MOD	
440-27479-7	125727_7S7	Total	Solid	160.3 MOD	
440-27479-8	125727_6S8	Total	Solid	160.3 MOD	
440-27479-9	125727_8S9	Total	Solid	160.3 MOD	
440-27479-10	125727_5S10	Total	Solid	160.3 MOD	
440-27479-11	125727_8S11	Total	Solid	160.3 MOD	
F2J260434001X	125727_3S1 (440-27479-1) DUP	Total	Solid	160.3 MOD	

RAD

Prep Batch: 2314028_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27479-1	125727_3S1	Total	Solid	Extraction Chromatography - Sequential Actinides	
440-27479-3	125727_3S3	Total	Solid	Extraction Chromatography - Sequential Actinides	
440-27479-4	125727_4S4	Total	Solid	Extraction Chromatography - Sequential Actinides	
440-27479-5	125727_7S5	Total	Solid	Extraction Chromatography - Sequential Actinides	
440-27479-6	125727_6S6	Total	Solid	Extraction Chromatography - Sequential Actinides	
440-27479-7	125727_7S7	Total	Solid	Extraction Chromatography - Sequential Actinides	

QC Association Summary

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

RAD (Continued)

Prep Batch: 2314028_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27479-8	125727_6S8	Total	Solid	Extraction Chromatography - Sequential	
440-27479-9	125727_8S9	Total	Solid	Actinides Extraction Chromatography - Sequential	
440-27479-10	125727_5S10	Total	Solid	Actinides Extraction Chromatography - Sequential	
440-27479-11	125727_8S11	Total	Solid	Actinides Extraction Chromatography - Sequential	
F2J260434001X	125727_3S1 (440-27479-1) DUP	Total	Solid	Actinides Extraction Chromatography - Sequential	
F2K090000028B	Method Blank	Total	Solid	Actinides Extraction Chromatography - Sequential	
F2K090000028C	Lab Control Sample	Total	Solid	Actinides Extraction Chromatography - Sequential	

Prep Batch: 2340010_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27479-1	125727_3S1	Total	Solid	Distillation and Suspended in LSC Cocktail	
440-27479-2	125727_2S2	Total	Solid	Distillation and Suspended in LSC Cocktail	
440-27479-3	125727_3S3	Total	Solid	Distillation and Suspended in LSC Cocktail	
440-27479-4	125727_4S4	Total	Solid	Distillation and Suspended in LSC Cocktail	
440-27479-5	125727_7S5	Total	Solid	Distillation and Suspended in LSC Cocktail	
440-27479-6	125727_6S6	Total	Solid	Distillation and Suspended in LSC Cocktail	
440-27479-7	125727_7S7	Total	Solid	Distillation and Suspended in LSC Cocktail	
440-27479-8	125727_6S8	Total	Solid	Distillation and Suspended in LSC Cocktail	
440-27479-9	125727_8S9	Total	Solid	Distillation and Suspended in LSC Cocktail	

TestAmerica Irvine



QC Association Summary

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

RAD (Continued)

Prep Batch: 2340010_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27479-10	125727_5S10	Total	Solid	Distillation and Suspended in LSC Cocktail	
440-27479-11	125727_8S11	Total	Solid	Distillation and Suspended in LSC Cocktail	
F2J260434001X	125727_3S1 (440-27479-1) DUP	Total	Solid	Distillation and Suspended in LSC Cocktail	
F2J260434002S	125727_2S2 (440-27479-2)	Total	Solid	Distillation and Suspended in LSC Cocktail	
F2L050000010B	Method Blank	Total	Solid	Distillation and Suspended in LSC Cocktail	
F2L050000010C	Lab Control Sample	Total	Solid	Distillation and Suspended in LSC Cocktail	

Prep Batch: 2340023_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27479-1	125727_3S1	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
440-27479-2	125727_2S2	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
440-27479-3	125727_3S3	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
440-27479-4	125727_4S4	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
440-27479-5	125727_7S5	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
440-27479-6	125727_6S6	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
440-27479-7	125727_7S7	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
440-27479-8	125727_6S8	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
440-27479-9	125727_8S9	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	



QC Association Summary

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

RAD (Continued)

Prep Batch: 2340023_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27479-10	125727_5S10	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
440-27479-11	125727_8S11	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
F2J260434001X	125727_3S1 (440-27479-1) DUP	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
F2L050000023B	Method Blank	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
F2L050000023C	Lab Control Sample	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	

Prep Batch: 3157025_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27479-2	125727_2S2	Total	Solid	Extraction Chromatography - Sequential Actinides	
F2J260434002X	125727_2S2 (440-27479-2) DUP	Total	Solid	Extraction Chromatography - Sequential Actinides	
F3F060000025B	Method Blank	Total	Solid	Extraction Chromatography - Sequential Actinides	
F3F060000025C	Lab Control Sample	Total	Solid	Extraction Chromatography - Sequential Actinides	

Prep Batch: 3182022_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27479-1	125727_3S1	Total	Solid	Extraction Chromatography	
440-27479-2	125727_2S2	Total	Solid	Extraction Chromatography	
440-27479-3	125727_3S3	Total	Solid	Extraction Chromatography	
440-27479-4	125727_4S4	Total	Solid	Extraction Chromatography	
440-27479-5	125727_7S5	Total	Solid	Extraction Chromatography	
440-27479-6	125727_6S6	Total	Solid	Extraction Chromatography	
440-27479-7	125727_7S7	Total	Solid	Extraction Chromatography	



QC Association Summary

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

RAD (Continued)

Prep Batch: 3182022_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27479-8	125727_6S8	Total	Solid	Extraction Chromatography	
440-27479-9	125727_8S9	Total	Solid	Extraction Chromatography	
440-27479-10	125727_5S10	Total	Solid	Extraction Chromatography	
440-27479-11	125727_8S11	Total	Solid	Extraction Chromatography	
F2J260434001X	125727_3S1 (440-27479-1) DUP	Total	Solid	Extraction Chromatography	
F3G010000022B	Method Blank	Total	Solid	Extraction Chromatography	
F3G010000022C	Lab Control Sample	Total	Solid	Extraction Chromatography	

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Definitions/Glossary

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
*	LCS or LCSD exceeds the control limits

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

RAD

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.
J	Result is greater than sample detection limit but less than stated reporting limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-14
Arizona	State Program	9	AZ0671	10-13-13
California	LA Cty Sanitation Districts	9	10256	01-31-14
California	NELAP	9	1108CA	01-31-14
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	01-28-14 *
Hawaii	State Program	9	N/A	01-31-14
Nevada	State Program	9	CA015312007A	07-31-13
New Mexico	State Program	6	N/A	01-31-14
Northern Mariana Islands	State Program	9	MP0002	01-31-14
Oregon	NELAP	10	4005	09-12-13
USDA	Federal		P330-09-00080	06-06-14
USEPA UCMR	Federal	1	CA01531	01-31-15

Laboratory: TestAmerica St. Louis

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-14
California	NELAP	9	2542	03-31-14
Connecticut	State Program	1	PH-0241	03-31-15
Florida	NELAP	4	E87689	06-30-13
Illinois	NELAP	5	200023	11-30-13
Iowa	State Program	7	373	12-01-14
Kansas	NELAP	7	E-10236	10-31-13
Kentucky	State Program	4	90125	12-31-13
L-A-B	DoD ELAP		L2305	01-10-16
Louisiana	NELAP	6	106151	06-30-14
Louisiana	NELAP	6	LA070016	12-31-13
Maryland	State Program	3	310	09-30-13
Missouri	State Program	7	780	06-30-13
Nevada	State Program	9	MO000542013-1	07-31-13
New Jersey	NELAP	2	MO002	06-30-14
New York	NELAP	2	11616	04-01-14
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-13
Pennsylvania	NELAP	3	68-00540	02-28-14
South Carolina	State Program	4	85002	06-30-13
Texas	NELAP	6	T104704193	07-31-13
USDA	Federal		P330-07-00122	01-03-14
USEPA Reg V SDWA	Federal	1	N/A	08-30-14
Utah	NELAP	8	MO000542012-4	06-30-13
Virginia	NELAP	3	460230	06-14-14
Washington	State Program	10	C1310	08-31-13
West Virginia DEP	State Program	3	381	08-30-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Irvine

440-27479

Client Name/Address:		Project:		ANALYSIS REQUIRED		Please send copy of results to Tom Armenoff: [thomas.c.armenoff@boeing.com]	
The Boeing Company SSFL 5800 Woolsey Canyon Road Canoga Park, CA 91304-1148		125727 B/1300 ISRA SHL SOIL WC - SURFACE SAMPLES		Pb as Aroclors		Please provide level II data package with signed cover page and bedms format edd	
TestAmerica Contact: Heather Clark		Phone Number: (818) 466-8089		VOC (EPA 8260)			
Project Manager: Kevin Ruddick		Fax Number: (818) 466-8743		Cam 17 metals			
Sampler: Van Vathanasan (MWH)		E-mail: kevin.f.ruddick@boeing.com		Triium			
Sample Description	Sample Matrix	Container Type	# of Cont	Sampling Date/Time	Preservative	Bottle #	Comments
125727_3S1	Solid	8 oz jar	8	10-22-12/1320	NA	—	Run STLC (WET)/TCLP if TTLC results >=10X STLC/20X TCLP thresholds
125727_2S2	Solid	8 oz jar	8	10-22-12/1410	NA	—	Run STLC (WET)/TCLP if TTLC results >=10X STLC/20X TCLP thresholds
125727_3S3	Solid	8 oz jar	8	10-22-12/1320	NA	—	Run STLC (WET)/TCLP if TTLC results >=10X STLC/20X TCLP thresholds
125727_4S4	Solid	8 oz jar	8	10-22-12/1430	NA	—	Run STLC (WET)/TCLP if TTLC results >=10X STLC/20X TCLP thresholds
125727_7S5	Solid	8 oz jar	8	10-22-12/1435	NA	—	Run STLC (WET)/TCLP if TTLC results >=10X STLC/20X TCLP thresholds
125727_6S6	Solid	8 oz jar	8	10-22-12/1405	NA	—	Run STLC (WET)/TCLP if TTLC results >=10X STLC/20X TCLP thresholds
125727_7S7	Solid	8 oz jar	8	10-22-12/1519	NA	—	Run STLC (WET)/TCLP if TTLC results >=10X STLC/20X TCLP thresholds
125727_6S8	Solid	8 oz jar	8	10-22-12/1420	NA	—	Run STLC (WET)/TCLP if TTLC results >=10X STLC/20X TCLP thresholds
125727_8S9	Solid	8 oz jar	8	10-22-12/1501	NA	—	Run STLC (WET)/TCLP if TTLC results >=10X STLC/20X TCLP thresholds
125727_5S10	Solid	8 oz jar	8	10-22-12/1353	NA	—	Run STLC (WET)/TCLP if TTLC results >=10X STLC/20X TCLP thresholds
125727_8S11	Solid	8 oz jar	8	10-22-12/1509	NA	—	Run STLC (WET)/TCLP if TTLC results >=10X STLC/20X TCLP thresholds
Relinquished By				Date/Time:			Turn around Time: (checkbox) 24 Hours _____ 5 Days <u>XX5</u> 48 Hours _____ 10 Days <u>XX</u> 72 Hours _____ Normal _____ Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____ Sample Integrity: (Check) <u>XX</u> Intact _____ On Ice: <u>XX</u>
Received By				Date/Time:			
Received By				Date/Time:			
Received By				Date/Time:			

2.7



Login Sample Receipt Checklist

Client: The Boeing Company

Job Number: 440-27479-1

Login Number: 27479

List Source: TestAmerica Irvine

List Number: 1

Creator: Freitag, Kevin R

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	Van V.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Tracer/Carrier Summary

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA SHL SOIL WC

TestAmerica Job ID: 440-27479-1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Matrix: Solid

Prep Type: Total

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Uranium-23: (30-110)	
440-27479-1	125727_3S1	66	
440-27479-2 - RE	125727_2S2	39	
440-27479-3	125727_3S3	73	
440-27479-4	125727_4S4	69	
440-27479-5	125727_7S5	78	
440-27479-6	125727_6S6	65	
440-27479-7	125727_7S7	68	
440-27479-8	125727_6S8	61	
440-27479-9	125727_8S9	69	
440-27479-10	125727_5S10	69	
440-27479-11	125727_8S11	78	
F2J260434001X	125727_3S1 (440-27479-1) DUP	76	
F2J260434002X - RE	125727_2S2 (440-27479-2) DUP	42	
F2K090000028B	Method Blank	90	
F2K090000028C	Lab Control Sample	89	
F3F060000025B	Method Blank	89	
F3F060000025C	Lab Control Sample	85	

Tracer/Carrier Legend
 Uranium-232 = Uranium-232

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Matrix: Solid

Prep Type: Total

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Sr Tracer (40-110)	
440-27479-1 - RE	125727_3S1	72	
440-27479-2 - RE	125727_2S2	77	
440-27479-3 - RE	125727_3S3	76	
440-27479-4 - RE	125727_4S4	86	
440-27479-5 - RE	125727_7S5	79	
440-27479-6 - RE	125727_6S6	79	
440-27479-7 - RE	125727_7S7	87	
440-27479-8 - RE	125727_6S8	80	
440-27479-9 - RE	125727_8S9	81	
440-27479-10 - RE	125727_5S10	85	
440-27479-11 - RE	125727_8S11	89	
F2J260434001X - RE	125727_3S1 (440-27479-1) DUP	79	
F3G010000022B	Method Blank	82	
F3G010000022C	Lab Control Sample	78	

Tracer/Carrier Legend
 Sr Tracer = Sr Tracer

Appendix 4
Laboratory Report for Batch 440-27510

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-27510-1

Client Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

Revision: 6

For:

The Boeing Company

5800 Woolsey Canyon Road

Canoga Park, California 91304-1148

Attn: Tom Venable



Authorized for release by:

7/17/2013 7:16:45 PM

Debby Wilson, Project Manager I

debby.wilson@testamericainc.com

Designee for

Heather Clark, Project Manager I

heather.clark@testamericainc.com

LINKS

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results through

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Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Table of Contents

Cover Page	1
Table of Contents	2
Sample Summary	3
Case Narrative	4
Client Sample Results	8
Method Summary	32
Chronicle	33
QC Sample Results	38
QC Association	56
Definitions	63
Certification Summary	64
Chain of Custody	65
Receipt Checklists	66
Tracer Carrier Summary	67

Sample Summary

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-27510-1	125727_T3S1	Solid	10/23/12 07:52	10/23/12 19:15
440-27510-2	125727_T2S2	Solid	10/23/12 09:10	10/23/12 19:15
440-27510-3	125727_T1S3	Solid	10/23/12 08:24	10/23/12 19:15
440-27510-4	125727_T4S4	Solid	10/23/12 07:55	10/23/12 19:15
440-27510-5	125727_T7S5	Solid	10/23/12 08:46	10/23/12 19:15
440-27510-6	125727_T5S6	Solid	10/23/12 08:30	10/23/12 19:15
440-27510-7	125727_T6S7	Solid	10/23/12 09:02	10/23/12 19:15



Case Narrative

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Job ID: 440-27510-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative 440-27510-1

Comments

06/18/13: The samples for Gamma Spec were re-processed using the SSFL Gamma library. The EDD, report, and case narrative have been revised. 07/17/13: Revised to include Strontium reanalysis and additional case narrative.

Receipt

The samples were received on 10/23/2012 7:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.9° C.

GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 62141 exceeded control limits for the following analytes: cis-1,3-dichloropropene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The following sample(s) was diluted due to the nature of the sample matrix: 125727_T1S3 (440-27510-3), 125727_T2S2 (440-27510-2), 125727_T4S4 (440-27510-4), 125727_T5S6 (440-27510-6), 125727_T6S7 (440-27510-7), 125727_T7S5 (440-27510-5). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries associated with batch 62141 were outside control limits for Acetone and cis-1,3-Dichloropropene: BLD10-B026-6.0 (440-27446-4 MS). Matrix interference is suspected for Acetone. Cis-1,3-Dichloropropene was outside control limits in the LCS also. Samples are ND for this compound.

Method(s) 8260B: The following sample(s) was diluted due to the nature of the sample matrix: 125727_T3S1 (440-27510-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC Semi VOA

Method(s) 8082: The continuing calibration verification (CCV) for Aroclor 1016/1260 associated with batch 63428 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No other analytical or quality issues were noted.

Metals

Method(s) 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for mercury in batch 440-26168 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

Isotopic Uranium by Alpha Spectroscopy (EML A-01-R MOD)

The Uranium sample has a tracer recovery below the 30% QC limit. The sample is to be re-extracted at a lower aliquot. The re-extracted Uranium samples have acceptable results. The data have been qualified and reported.

Affected Samples:

F2J260436 (7): 125727_T6S7 (440-27510-7)

Strontium-90 by GFPC (EML SR-03-RC MOD)

Since Sr-89 is not expected to be present in the samples, the total strontium results are assumed to be equivalent to Sr-90 results. The summary forms will list the total strontium results. The total strontium results will be listed as Sr-90 in the EDD.

The Strontium carrier recovery is outside the lower control limit (40%). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence

Case Narrative

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Job ID: 440-27510-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

of matrix interference.

The samples formed a gel and needed to be centrifuged prior to being loaded onto columns.

Affected Samples:

F2J260436 (1): 125727_T3S1 (440-27510-1)
F2J260436 (2): 125727_T2S2 (440-27510-2)
F2J260436 (3): 125727_T1S3 (440-27510-3)
F2J260436 (4): 125727_T4S4 (440-27510-4)
F2J260436 (5): 125727_T7S5 (440-27510-5)
F2J260436 (6): 125727_T5S6 (440-27510-6)
F2J260436 (7): 125727_T6S7 (440-27510-7)

Batch: 2338037

The LCS carrier recovery is outside acceptance limits of 40-110% (39.21%). LCS spike recoveries are within QC limits demonstrating acceptable sample preparation and instrument performance. There is an apparent anomaly in the sample preparation, isolated to the LCS and not indicative of the batch.

The reporting limit for Total Strontium was not met. The samples were counted for the maximum amount of time. The results are reported with the MDA achieved.

Affected Samples:

F2J260436 (2): 125727_T2S2 (440-27510-2)
F2J260436 (3): 125727_T1S3 (440-27510-3)
F2J260436 (6): 125727_T5S6 (440-27510-6)

Batch: 2320016

The reporting limit for Total Strontium was not met. The samples were counted for the maximum amount of time. The results are reported with the MDA achieved.

Affected Samples:

F2J260436 (7): 125727_T6S7 (440-27510-7)

Gamma Spectroscopy-Radium-226 & Hits (EML GA-01-R MOD)

Bi-214/Ra-226 analyzed by gamma spectroscopy was detected above the MDA but below the CRDL in the method blank.

Affected Samples:

F2J260436 (1): 125727_T3S1 (440-27510-1)
F2J260436 (2): 125727_T2S2 (440-27510-2)
F2J260436 (3): 125727_T1S3 (440-27510-3)
F2J260436 (4): 125727_T4S4 (440-27510-4)
F2J260436 (5): 125727_T7S5 (440-27510-5)
F2J260436 (6): 125727_T5S6 (440-27510-6)
F2J260436 (7): 125727_T6S7 (440-27510-7)

Bi-214/Ra-226 analyzed by gamma spectroscopy was detected above the MDA but below the CRDL in the method blank.

Affected Samples:

F2J260436 (1): 125727_T3S1 (440-27510-1)

The reporting limit for Europium 152 and Europium 154 was not met. The samples were counted for an extended count time of six hours in an attempt to meet the lower reporting limit. The results are reported with the MDA achieved.

Affected Samples:

F2J260436 (2): 125727_T2S2 (440-27510-2)

Case Narrative

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Job ID: 440-27510-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

F2J260436 (3): 125727_T1S3 (440-27510-3)

F2J260436 (6): 125727_T5S6 (440-27510-6)

F2J260436 (7): 125727_T6S7 (440-27510-7)

Nuclide: 227Ac Energy: 236.0, 265.3 Photon Abundance: 0.1105, 0.0671

Actinium-227 does not emit any gamma photons useful for quantification. However, it can be assumed to be in secular equilibrium with the short-lived 227Th daughter product, with consideration for the 98.62% branching ratio for that decay scheme. Therefore, the activity for 227Ac is determined from the 227Th gamma emissions, using the 21.8 year half-life of 227Ac.

Nuclide: 228Ac, 228Ra Energy: various Photon Abundance: various

Actinium-228 can be assumed to be in secular equilibrium with the 228Ra parent.

Activity values for 228Ac are calculated using the half-life, $t_{1/2}=5.75$ years, of the long-lived 228Ra parent. If the requested analysis involves the quantification of both 228Ac and 228Ra, the reported results for each nuclide will be identical. The quantification will be obtained from the measurement of the observed 228Ac photo-peaks with emission energies of 338.40, 911.07, and 968.90 keV.

Nuclide: 212Bi, 212Pb, 208Tl Energy: various Photon Abundance: various

All activity values for 212Bi, 212Pb, and 208Tl are calculated using the half-life, $t_{1/2}=1.91$ years, of the long-lived 228Th parent. It is assumed that secular equilibrium is achieved between the 228Th parent and the 212Bi, and 212Pb progeny, as well as the 208Tl progeny, after consideration of the 35.9% branching ratio for that decay scheme.

Nuclide: 134Cs Energy: 604.66 Photon Abundance: 0.9762

Cesium-134 suffers from coincidence summing, due to the multiple simultaneous photon emissions during each decay event. This results in a potentially low bias in the final analytical results. The magnitude of this low bias is highly dependent on the 134Cs activity levels and the specific counting geometry. Any 134Cs activity reported above the associated Minimum Detectable Concentration (MDC) should be considered to have a potential low bias.

The most abundant gamma emission specified for quantification of this nuclide suffers from possible resolution interference due to the 124Sb gamma emission occurring at 602.71 keV (0.9826, abundance). Therefore, a possibility of a high bias to the 134Cs results may occur in the presence of elevated 124Sb activity.

Other gamma emissions used for quantification of this nuclide suffer from possible resolution interference due to multiple gamma emissions of 228Ac. Therefore, a possible high bias to the 134Cs activity results may occur in the presence of elevated 228Ac activity.

Nuclide: 137Cs Energy: 661.62 keV Photon Abundance: 0.8512

Cesium-137 does not emit any gamma photons useful for quantification. However, it can be assumed to be in secular equilibrium with its short-lived 137mBa daughter, with consideration for the 94.6% branching ratio for that decay scheme. The calculated gamma photon abundance used in the library is the product of the 0.8998 abundance of the 661.62 keV 137mBa photon and the 0.946 branching ratio.

Nuclide: 152Eu Energy: 1408.1 Photon Abundance: 0.2121

The primary gamma emission useful for quantification of this nuclide suffers from possible interference due to the 214Bi gamma emission occurring at 1408.0 keV (0.0248, abundance). Therefore, 152Eu results may be biased high in the presence of elevated 214Bi activity.

Nuclide: 155Eu Energy: 105.31 Photon Abundance: 0.2180

The gamma emission useful for quantification of this nuclide suffers from possible resolution interference due to the 235U gamma emission occurring at 105 keV (0.0210, abundance). Therefore, a possibility of a high bias to the 155Eu results may occur in the presence of elevated 235U activity.

Europium-155 also emits gamma photons at 86.47 keV, however this emission energy is subject to significant Pb x-ray interference and is therefore excluded from the library.

Nuclide: 125Sb Energy: 600.8 Photon Abundance: 0.1786

The 600.8 keV gamma emission specified for this nuclide suffers from possible resolution interference from to the 124Sb gamma emission occurring at 602.71 keV (0.9826, abundance). Therefore, this photo-peak will be used as an identifier only and not in the activity calculations for this nuclide.

Case Narrative

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Job ID: 440-27510-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

Nuclide: 22Na Energy: 1274.5 Photon Abundance: 0.9994

The 1274.5 keV photo-peak used to quantify 22Na suffers from positive interference in the presence of 154Eu, which emits a 1274.8 keV gamma photon with an abundance factor of 0.355. There are no other gamma emissions useful for quantifying 22Na. In the presence of 154Eu activity above the detection limit, 22Na results above the detection limit should be flagged as an estimated value.

Additional Case narrative 07/17/13:

The laboratory utilized a site-specific (and EPA approved) library to process the data, which defines the isotopes to report along with the energy lines and abundance values. While attempting to reduce the incidence of spectral interferences, this library is still known to generate high bias/false positive results for certain nuclides in the presence of elevated levels of naturally occurring isotopes.

The following two nuclides exhibited interference in many of the samples:

Eu-155 - There are two main photons associated with this decay (21.8% @ 105.3 keV, ~31% @ 86.5 keV). Both are subject to interferences - 105 keV due to U-235 and 86.5 keV due to Lead, Radium, and Actinium x-rays. The SSFL library utilizes the 105.3 keV photon, resulting in a high bias or false positive when U-235 is present. Presence of Eu-155 is expected by the client to be accompanied by the presence of Eu-152 and/or Eu-154. Given the lack of detection of these nuclides along with the apparent interference from U-235, the laboratory does not believe Eu-155 to be present in these samples.

Sb-125 - The library peaks for this nuclide are 176.3 keV (7.3%), 428.0 keV (29.6%), 463.5 keV (10%), 600.8 keV (18.4%), and 636.2 keV (11.2%). The 4.4% abundant Ac-228 peak at 463.0 keV is often assigned by the software to be the 463.5 keV peak of Sb-125. And, while the most abundant Sb-125 (29.6% @ 428.0 keV) is not seen above the sample-specific MDC in the spectra, the inclusion of the 463 keV interference peak in the weighted average results in a high bias or false positive. The laboratory does not believe Sb-125 to be present in these samples.

-001: Eu-155, Sb-125 - see above

-002: Eu-155, Sb-125 - see above

-003: Co-60 - The software indicates both peaks (1173.2 and 1332.5 keV) failed the shape tests for this sample. In addition, while one would expect similar count in the two peaks (similar efficiency and abundance), there is a discrepancy in the counts due to the poor peak fit. The laboratory does not believe this nuclide to be present in this sample.

Eu-155, Sb-125 - see above

-004: Sb-125 - see above

-005: Eu-155, Sb-125 - see above

-006: Eu-155, Sb-125 - see above

-007: Eu-155, Sb-125 - see above

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Client Sample ID: 125727_T3S1

Lab Sample ID: 440-27510-1

Date Collected: 10/23/12 07:52

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.7	2.2	ug/Kg			10/27/12 01:46	1
Styrene	ND		8.7	2.5	ug/Kg			10/27/12 01:46	1
cis-1,3-Dichloropropene	ND	*	8.7	1.9	ug/Kg			10/27/12 01:46	1
trans-1,3-Dichloropropene	ND		8.7	2.7	ug/Kg			10/27/12 01:46	1
N-Propylbenzene	ND		8.7	2.7	ug/Kg			10/27/12 01:46	1
n-Butylbenzene	ND		22	3.1	ug/Kg			10/27/12 01:46	1
4-Chlorotoluene	ND		22	3.2	ug/Kg			10/27/12 01:46	1
1,4-Dichlorobenzene	ND		8.7	4.1	ug/Kg			10/27/12 01:46	1
1,2-Dibromoethane (EDB)	ND		8.7	3.5	ug/Kg			10/27/12 01:46	1
1,2-Dichloroethane	ND		8.7	3.5	ug/Kg			10/27/12 01:46	1
4-Methyl-2-pentanone (MIBK)	ND		22	20	ug/Kg			10/27/12 01:46	1
1,3,5-Trimethylbenzene	ND		8.7	2.7	ug/Kg			10/27/12 01:46	1
Bromobenzene	ND		22	3.7	ug/Kg			10/27/12 01:46	1
Toluene	ND		8.7	2.2	ug/Kg			10/27/12 01:46	1
Chlorobenzene	ND		8.7	2.3	ug/Kg			10/27/12 01:46	1
1,2,4-Trichlorobenzene	ND		22	4.3	ug/Kg			10/27/12 01:46	1
Dibromochloromethane	ND		8.7	3.0	ug/Kg			10/27/12 01:46	1
Tetrachloroethene	ND		8.7	2.1	ug/Kg			10/27/12 01:46	1
sec-Butylbenzene	ND		22	2.9	ug/Kg			10/27/12 01:46	1
m,p-Xylene	ND		8.7	3.5	ug/Kg			10/27/12 01:46	1
1,3-Dichloropropane	ND		8.7	2.7	ug/Kg			10/27/12 01:46	1
cis-1,2-Dichloroethene	ND		8.7	3.6	ug/Kg			10/27/12 01:46	1
trans-1,2-Dichloroethene	ND		8.7	3.0	ug/Kg			10/27/12 01:46	1
Methyl-t-Butyl Ether (MTBE)	ND		22	4.3	ug/Kg			10/27/12 01:46	1
1,3-Dichlorobenzene	ND		8.7	3.7	ug/Kg			10/27/12 01:46	1
Carbon tetrachloride	ND		22	2.2	ug/Kg			10/27/12 01:46	1
1,1-Dichloropropene	ND		8.7	1.7	ug/Kg			10/27/12 01:46	1
2-Hexanone	ND		110	40	ug/Kg			10/27/12 01:46	1
2,2-Dichloropropane	ND		8.7	2.6	ug/Kg			10/27/12 01:46	1
1,1,1,2-Tetrachloroethane	ND		22	2.5	ug/Kg			10/27/12 01:46	1
Acetone	ND		43	35	ug/Kg			10/27/12 01:46	1
Chloroform	ND		8.7	2.2	ug/Kg			10/27/12 01:46	1
Benzene	ND		8.7	2.2	ug/Kg			10/27/12 01:46	1
1,1,1-Trichloroethane	ND		8.7	3.0	ug/Kg			10/27/12 01:46	1
Bromomethane	ND		22	4.0	ug/Kg			10/27/12 01:46	1
Chloromethane	ND		22	4.3	ug/Kg			10/27/12 01:46	1
Dibromomethane	ND		8.7	3.9	ug/Kg			10/27/12 01:46	1
Bromochloromethane	ND		22	3.9	ug/Kg			10/27/12 01:46	1
Chloroethane	ND		22	6.5	ug/Kg			10/27/12 01:46	1
Vinyl chloride	ND		22	4.0	ug/Kg			10/27/12 01:46	1
Methylene Chloride	ND		87	28	ug/Kg			10/27/12 01:46	1
Carbon disulfide	ND		22	4.2	ug/Kg			10/27/12 01:46	1
Bromoform	ND		22	3.5	ug/Kg			10/27/12 01:46	1
Bromodichloromethane	ND		8.7	2.2	ug/Kg			10/27/12 01:46	1
1,1-Dichloroethane	ND		8.7	2.2	ug/Kg			10/27/12 01:46	1
1,1-Dichloroethene	ND		22	2.6	ug/Kg			10/27/12 01:46	1
Trichlorofluoromethane	ND		22	2.3	ug/Kg			10/27/12 01:46	1
Dichlorodifluoromethane	ND		22	6.5	ug/Kg			10/27/12 01:46	1
1,2-Dichloropropane	ND		8.7	3.5	ug/Kg			10/27/12 01:46	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Client Sample ID: 125727_T3S1

Lab Sample ID: 440-27510-1

Date Collected: 10/23/12 07:52

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		43	26	ug/Kg			10/27/12 01:46	1
1,1,2-Trichloroethane	ND		8.7	3.8	ug/Kg			10/27/12 01:46	1
Trichloroethene	ND		8.7	2.2	ug/Kg			10/27/12 01:46	1
1,1,2,2-Tetrachloroethane	ND		8.7	3.7	ug/Kg			10/27/12 01:46	1
1,2,3-Trichlorobenzene	ND		22	4.3	ug/Kg			10/27/12 01:46	1
Hexachlorobutadiene	ND		22	3.5	ug/Kg			10/27/12 01:46	1
Naphthalene	ND		22	4.8	ug/Kg			10/27/12 01:46	1
o-Xylene	ND		8.7	2.2	ug/Kg			10/27/12 01:46	1
2-Chlorotoluene	ND		22	3.8	ug/Kg			10/27/12 01:46	1
1,2-Dichlorobenzene	ND		8.7	4.1	ug/Kg			10/27/12 01:46	1
1,2,4-Trimethylbenzene	ND		8.7	3.4	ug/Kg			10/27/12 01:46	1
1,2-Dibromo-3-Chloropropane	ND		22	6.5	ug/Kg			10/27/12 01:46	1
1,2,3-Trichloropropane	ND		43	4.3	ug/Kg			10/27/12 01:46	1
tert-Butylbenzene	ND		22	2.7	ug/Kg			10/27/12 01:46	1
Isopropylbenzene	ND		8.7	2.3	ug/Kg			10/27/12 01:46	1
p-Isopropyltoluene	ND		8.7	3.1	ug/Kg			10/27/12 01:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	108		80 - 120					10/27/12 01:46	1
4-Bromofluorobenzene (Surr)	107		80 - 120					10/27/12 01:46	1
Dibromofluoromethane (Surr)	104		80 - 125					10/27/12 01:46	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		10/28/12 14:44	10/29/12 16:37	1
Aroclor 1221	ND		50	12	ug/Kg		10/28/12 14:44	10/29/12 16:37	1
Aroclor 1232	ND		50	12	ug/Kg		10/28/12 14:44	10/29/12 16:37	1
Aroclor 1242	ND		50	12	ug/Kg		10/28/12 14:44	10/29/12 16:37	1
Aroclor 1248	ND		50	12	ug/Kg		10/28/12 14:44	10/29/12 16:37	1
Aroclor 1254	ND		50	12	ug/Kg		10/28/12 14:44	10/29/12 16:37	1
Aroclor 1260	ND		50	12	ug/Kg		10/28/12 14:44	10/29/12 16:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	82		45 - 120				10/28/12 14:44	10/29/12 16:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J	10	1.1	mg/Kg		10/26/12 14:32	10/29/12 23:41	5
Arsenic	11		2.0	0.81	mg/Kg		10/26/12 14:32	10/29/12 23:41	5
Barium	59		1.0	0.80	mg/Kg		10/26/12 14:32	10/29/12 23:41	5
Beryllium	0.49	J	0.50	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:41	5
Cadmium	0.20	J	0.50	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:41	5
Chromium	15		1.0	0.30	mg/Kg		10/26/12 14:32	10/29/12 23:41	5
Cobalt	4.4		1.0	0.30	mg/Kg		10/26/12 14:32	10/29/12 23:41	5
Copper	8.4		2.0	0.38	mg/Kg		10/26/12 14:32	10/29/12 23:41	5
Lead	4.0		2.0	0.50	mg/Kg		10/26/12 14:32	10/29/12 23:41	5
Molybdenum	1.1	J	2.0	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:41	5
Nickel	11		2.0	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:41	5
Selenium	ND		2.0	1.0	mg/Kg		10/26/12 14:32	10/29/12 23:41	5
Thallium	ND		10	0.80	mg/Kg		10/26/12 14:32	10/29/12 23:41	5

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Client Sample ID: 125727_T3S1

Lab Sample ID: 440-27510-1

Date Collected: 10/23/12 07:52

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	27		1.0	0.30	mg/Kg		10/26/12 14:32	10/29/12 23:41	5
Zinc	54		5.0	0.50	mg/Kg		10/26/12 14:32	10/29/12 23:41	5
Silver	ND		1.0	0.80	mg/Kg		10/30/12 14:58	10/30/12 21:22	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.020	0.012	mg/Kg		10/28/12 15:45	10/29/12 20:15	1

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Tritium	0.04	U	0.20	0.20	0.37	pCi/g	11/15/12 00:00	11/20/12 18:51	1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Uranium 234	0.77		0.13	0.14	0.03	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Uranium 235/236	0.083		0.047	0.048	0.030	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Uranium 238	0.71		0.12	0.14	0.01	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Tracer	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Uranium-232	67		30 - 110				11/09/12 00:00	11/13/12 20:19	1

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Actinium 228	1.27		0.12	0.18	0.16	pCi/g	10/30/12 00:00	11/20/12 13:22	1
Antimony 125	0.128	J	0.040	0.042	0.10	pCi/g	10/30/12 00:00	11/20/12 13:22	1
Cesium 134	0.018	U	0.027	0.027	0.094	pCi/g	10/30/12 00:00	11/20/12 13:22	1
Cesium 137	0.015	U	0.024	0.024	0.040	pCi/g	10/30/12 00:00	11/20/12 13:22	1
Cobalt 60	0.010	U	0.018	0.018	0.038	pCi/g	10/30/12 00:00	11/20/12 13:22	1
Europium 152	-0.0002	U	0.060	0.060	0.10	pCi/g	10/30/12 00:00	11/20/12 13:22	1
Europium 154	-0.08	U	0.15	0.15	0.25	pCi/g	10/30/12 00:00	11/20/12 13:22	1
Europium 155	0.095	J	0.056	0.057	0.077	pCi/g	10/30/12 00:00	11/20/12 13:22	1
Potassium 40	19.3		0.9	2.2	0.3	pCi/g	10/30/12 00:00	11/20/12 13:22	1
Radium (226)	1.03		0.09	0.14	0.07	pCi/g	10/30/12 00:00	11/20/12 13:22	1
Sodium 22	-0.008	U	0.030	0.030	0.050	pCi/g	10/30/12 00:00	11/20/12 13:22	1
Thorium 232	1.27		0.12	0.18	0.16	pCi/g	10/30/12 00:00	11/20/12 13:22	1
Actinium 227	0.05	U	0.14	0.14	0.39	pCi/g	10/30/12 00:00	11/20/12 13:22	1
Protactinium 231	0.65	U	0.94	0.94	1.6	pCi/g	10/30/12 00:00	11/20/12 13:22	1
Other Detected			Count	Total					
Radionuclides	Result	Qualifier	Uncert.	Uncert.	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2.000σ+/-)	(2.000σ+/-)					
Barium 133	0.0004	U	0.0066	0.0066	0.047	pCi/g	10/30/12 00:00	11/20/12 13:22	1
Bismuth 212	0.98		0.25	0.27	0.25	pCi/g	10/30/12 00:00	11/20/12 13:22	1
Bismuth 214	1.03		0.09	0.14	0.07	pCi/g	10/30/12 00:00	11/20/12 13:22	1
Lead 212	1.34		0.06	0.18	0.06	pCi/g	10/30/12 00:00	11/20/12 13:22	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Client Sample ID: 125727_T3S1

Lab Sample ID: 440-27510-1

Date Collected: 10/23/12 07:52

Matrix: Solid

Date Received: 10/23/12 19:15

Percent Solids: 79

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD (Continued)

Other Detected Radionuclides	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2.000σ+/-)	Uncert. (2.000σ+/-)					
Lead 214	1.11		0.09	0.15	0.08	pCi/g	10/30/12 00:00	11/20/12 13:22	1
Thallium 208	0.410		0.041	0.059	0.037	pCi/g	10/30/12 00:00	11/20/12 13:22	1

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2.000σ+/-)	Uncert. (2.000σ+/-)					
Strontium Total	-0.014	U	0.026	0.026	0.046	pCi/g	07/01/13 00:00	07/14/13 16:50	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Sr Tracer	85		40 - 110	07/01/13 00:00	07/14/13 16:50	1

Client Sample ID: 125727_T2S2

Lab Sample ID: 440-27510-2

Date Collected: 10/23/12 09:10

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.3	2.1	ug/Kg			10/27/12 02:13	1
Styrene	ND		8.3	2.4	ug/Kg			10/27/12 02:13	1
cis-1,3-Dichloropropene	ND	*	8.3	1.8	ug/Kg			10/27/12 02:13	1
trans-1,3-Dichloropropene	ND		8.3	2.5	ug/Kg			10/27/12 02:13	1
N-Propylbenzene	ND		8.3	2.5	ug/Kg			10/27/12 02:13	1
n-Butylbenzene	ND		21	3.0	ug/Kg			10/27/12 02:13	1
4-Chlorotoluene	ND		21	3.1	ug/Kg			10/27/12 02:13	1
1,4-Dichlorobenzene	ND		8.3	3.9	ug/Kg			10/27/12 02:13	1
1,2-Dibromoethane (EDB)	ND		8.3	3.3	ug/Kg			10/27/12 02:13	1
1,2-Dichloroethane	ND		8.3	3.3	ug/Kg			10/27/12 02:13	1
4-Methyl-2-pentanone (MIBK)	ND		21	19	ug/Kg			10/27/12 02:13	1
1,3,5-Trimethylbenzene	ND		8.3	2.6	ug/Kg			10/27/12 02:13	1
Bromobenzene	ND		21	3.5	ug/Kg			10/27/12 02:13	1
Toluene	ND		8.3	2.1	ug/Kg			10/27/12 02:13	1
Chlorobenzene	ND		8.3	2.2	ug/Kg			10/27/12 02:13	1
1,2,4-Trichlorobenzene	ND		21	4.2	ug/Kg			10/27/12 02:13	1
Dibromochloromethane	ND		8.3	2.9	ug/Kg			10/27/12 02:13	1
Tetrachloroethene	ND		8.3	2.0	ug/Kg			10/27/12 02:13	1
sec-Butylbenzene	ND		21	2.8	ug/Kg			10/27/12 02:13	1
m,p-Xylene	ND		8.3	3.3	ug/Kg			10/27/12 02:13	1
1,3-Dichloropropane	ND		8.3	2.6	ug/Kg			10/27/12 02:13	1
cis-1,2-Dichloroethene	ND		8.3	3.5	ug/Kg			10/27/12 02:13	1
trans-1,2-Dichloroethene	ND		8.3	2.9	ug/Kg			10/27/12 02:13	1
Methyl-t-Butyl Ether (MTBE)	ND		21	4.2	ug/Kg			10/27/12 02:13	1
1,3-Dichlorobenzene	ND		8.3	3.5	ug/Kg			10/27/12 02:13	1
Carbon tetrachloride	ND		21	2.1	ug/Kg			10/27/12 02:13	1
1,1-Dichloropropene	ND		8.3	1.7	ug/Kg			10/27/12 02:13	1
2-Hexanone	ND		100	38	ug/Kg			10/27/12 02:13	1
2,2-Dichloropropane	ND		8.3	2.5	ug/Kg			10/27/12 02:13	1
1,1,1,2-Tetrachloroethane	ND		21	2.4	ug/Kg			10/27/12 02:13	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Client Sample ID: 125727_T2S2

Lab Sample ID: 440-27510-2

Date Collected: 10/23/12 09:10

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		42	33	ug/Kg			10/27/12 02:13	1
Chloroform	ND		8.3	2.1	ug/Kg			10/27/12 02:13	1
Benzene	ND		8.3	2.1	ug/Kg			10/27/12 02:13	1
1,1,1-Trichloroethane	ND		8.3	2.9	ug/Kg			10/27/12 02:13	1
Bromomethane	ND		21	3.8	ug/Kg			10/27/12 02:13	1
Chloromethane	ND		21	4.2	ug/Kg			10/27/12 02:13	1
Dibromomethane	ND		8.3	3.8	ug/Kg			10/27/12 02:13	1
Bromochloromethane	ND		21	3.8	ug/Kg			10/27/12 02:13	1
Chloroethane	ND		21	6.3	ug/Kg			10/27/12 02:13	1
Vinyl chloride	ND		21	3.8	ug/Kg			10/27/12 02:13	1
Methylene Chloride	ND		83	27	ug/Kg			10/27/12 02:13	1
Carbon disulfide	ND		21	4.0	ug/Kg			10/27/12 02:13	1
Bromoform	ND		21	3.3	ug/Kg			10/27/12 02:13	1
Bromodichloromethane	ND		8.3	2.1	ug/Kg			10/27/12 02:13	1
1,1-Dichloroethane	ND		8.3	2.1	ug/Kg			10/27/12 02:13	1
1,1-Dichloroethene	ND		21	2.5	ug/Kg			10/27/12 02:13	1
Trichlorofluoromethane	ND		21	2.3	ug/Kg			10/27/12 02:13	1
Dichlorodifluoromethane	ND		21	6.3	ug/Kg			10/27/12 02:13	1
1,2-Dichloropropane	ND		8.3	3.3	ug/Kg			10/27/12 02:13	1
2-Butanone (MEK)	ND		42	25	ug/Kg			10/27/12 02:13	1
1,1,2-Trichloroethane	ND		8.3	3.6	ug/Kg			10/27/12 02:13	1
Trichloroethene	ND		8.3	2.1	ug/Kg			10/27/12 02:13	1
1,1,2,2-Tetrachloroethane	ND		8.3	3.6	ug/Kg			10/27/12 02:13	1
1,2,3-Trichlorobenzene	ND		21	4.2	ug/Kg			10/27/12 02:13	1
Hexachlorobutadiene	ND		21	3.3	ug/Kg			10/27/12 02:13	1
Naphthalene	ND		21	4.6	ug/Kg			10/27/12 02:13	1
o-Xylene	ND		8.3	2.1	ug/Kg			10/27/12 02:13	1
2-Chlorotoluene	ND		21	3.6	ug/Kg			10/27/12 02:13	1
1,2-Dichlorobenzene	ND		8.3	4.0	ug/Kg			10/27/12 02:13	1
1,2,4-Trimethylbenzene	ND		8.3	3.3	ug/Kg			10/27/12 02:13	1
1,2-Dibromo-3-Chloropropane	ND		21	6.3	ug/Kg			10/27/12 02:13	1
1,2,3-Trichloropropane	ND		42	4.2	ug/Kg			10/27/12 02:13	1
tert-Butylbenzene	ND		21	2.6	ug/Kg			10/27/12 02:13	1
Isopropylbenzene	ND		8.3	2.3	ug/Kg			10/27/12 02:13	1
p-Isopropyltoluene	ND		8.3	3.0	ug/Kg			10/27/12 02:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	109		80 - 120					10/27/12 02:13	1
4-Bromofluorobenzene (Surr)	108		80 - 120					10/27/12 02:13	1
Dibromofluoromethane (Surr)	107		80 - 125					10/27/12 02:13	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 20:43	1
Aroclor 1221	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 20:43	1
Aroclor 1232	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 20:43	1
Aroclor 1242	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 20:43	1
Aroclor 1248	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 20:43	1
Aroclor 1254	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 20:43	1
Aroclor 1260	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 20:43	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Client Sample ID: 125727_T2S2

Lab Sample ID: 440-27510-2

Date Collected: 10/23/12 09:10

Matrix: Solid

Date Received: 10/23/12 19:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	82		45 - 120	11/01/12 09:29	11/01/12 20:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.0	J	9.9	1.1	mg/Kg		10/30/12 19:04	11/01/12 14:11	5
Arsenic	10		2.0	0.80	mg/Kg		10/30/12 19:04	11/01/12 14:11	5
Barium	68		0.99	0.79	mg/Kg		10/30/12 19:04	11/01/12 14:11	5
Beryllium	0.56		0.50	0.20	mg/Kg		10/30/12 19:04	11/01/12 14:11	5
Cadmium	ND		0.50	0.20	mg/Kg		10/30/12 19:04	11/01/12 14:11	5
Chromium	17		0.99	0.30	mg/Kg		10/30/12 19:04	11/01/12 14:11	5
Cobalt	4.4		0.99	0.30	mg/Kg		10/30/12 19:04	11/01/12 14:11	5
Copper	9.1		2.0	0.38	mg/Kg		10/30/12 19:04	11/01/12 14:11	5
Lead	4.9	B	2.0	0.50	mg/Kg		10/30/12 19:04	11/01/12 14:11	5
Molybdenum	1.5	J	2.0	0.20	mg/Kg		10/30/12 19:04	11/01/12 14:11	5
Nickel	12		2.0	0.20	mg/Kg		10/30/12 19:04	11/01/12 14:11	5
Selenium	2.6	B	2.0	0.99	mg/Kg		10/30/12 19:04	11/01/12 14:11	5
Thallium	ND		9.9	0.79	mg/Kg		10/30/12 19:04	11/01/12 14:11	5
Vanadium	28		0.99	0.30	mg/Kg		10/30/12 19:04	11/01/12 14:11	5
Zinc	47	B	5.0	0.50	mg/Kg		10/30/12 19:04	11/01/12 14:11	5
Silver	ND		0.99	0.79	mg/Kg		10/30/12 19:04	11/01/12 14:11	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.020	0.012	mg/Kg		11/01/12 20:45	11/02/12 15:46	1

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Tritium	0.03	U	0.18	0.18	0.33	pCi/g	11/15/12 00:00	11/20/12 19:38	1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Uranium 234	0.86		0.14	0.15	0.03	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Uranium 235/236	0.030		0.030	0.030	0.036	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Uranium 238	0.98		0.15	0.17	0.02	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Tracer	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Uranium-232	63		30 - 110				11/09/12 00:00	11/13/12 20:19	1

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Actinium 228	1.13		0.07	0.13	0.12	pCi/g	10/30/12 00:00	11/20/12 11:04	1
Antimony 125	0.097	J	0.025	0.027	0.057	pCi/g	10/30/12 00:00	11/20/12 11:04	1
Cesium 134	-0.0001	U	0.0018	0.0018	0.063	pCi/g	10/30/12 00:00	11/20/12 11:04	1
Cesium 137	0.0	U	0.013	0.013	0.028	pCi/g	10/30/12 00:00	11/20/12 11:04	1
Cobalt 60	0.010	U	0.013	0.013	0.025	pCi/g	10/30/12 00:00	11/20/12 11:04	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Client Sample ID: 125727_T2S2

Lab Sample ID: 440-27510-2

Date Collected: 10/23/12 09:10

Matrix: Solid

Date Received: 10/23/12 19:15

Percent Solids: 96.9

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD (Continued)

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Europium 152	0.021	U	0.036	0.037	0.052	pCi/g	10/30/12 00:00	11/20/12 11:04	1
Europium 154	0.033	U	0.068	0.069	0.15	pCi/g	10/30/12 00:00	11/20/12 11:04	1
Europium 155	0.076	J	0.036	0.037	0.047	pCi/g	10/30/12 00:00	11/20/12 11:04	1
Potassium 40	19.4		0.6	2.1	0.2	pCi/g	10/30/12 00:00	11/20/12 11:04	1
Radium (226)	0.94	J	0.05	0.11	0.04	pCi/g	10/30/12 00:00	11/20/12 11:04	1
Sodium 22	-0.010	U	0.020	0.020	0.033	pCi/g	10/30/12 00:00	11/20/12 11:04	1
Thorium 232	1.13		0.07	0.13	0.12	pCi/g	10/30/12 00:00	11/20/12 11:04	1
Thorium 234	0.52		0.15	0.16	0.25	pCi/g	10/30/12 00:00	11/20/12 11:04	1
Actinium 227	0.03	U	0.15	0.15	0.23	pCi/g	10/30/12 00:00	11/20/12 11:04	1
Protactinium 231	0.78		0.62	0.63	0.75	pCi/g	10/30/12 00:00	11/20/12 11:04	1

Other Detected Radionuclides	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Barium 133	-0.091	U	0.023	0.025	0.035	pCi/g	10/30/12 00:00	11/20/12 11:04	1
Bismuth 212	0.75		0.16	0.18	0.16	pCi/g	10/30/12 00:00	11/20/12 11:04	1
Bismuth 214	0.94		0.05	0.11	0.04	pCi/g	10/30/12 00:00	11/20/12 11:04	1
Lead 212	1.19		0.04	0.16	0.03	pCi/g	10/30/12 00:00	11/20/12 11:04	1
Lead 214	1.01		0.05	0.11	0.04	pCi/g	10/30/12 00:00	11/20/12 11:04	1
Thallium 208	0.386		0.028	0.049	0.022	pCi/g	10/30/12 00:00	11/20/12 11:04	1

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Strontium Total	0.027	J	0.026	0.026	0.041	pCi/g	07/01/13 00:00	07/14/13 16:51	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Sr Tracer	85		40 - 110	07/01/13 00:00	07/14/13 16:51	1

Client Sample ID: 125727_T1S3

Lab Sample ID: 440-27510-3

Date Collected: 10/23/12 08:24

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.7	2.2	ug/Kg			10/27/12 02:40	1
Styrene	ND		8.7	2.5	ug/Kg			10/27/12 02:40	1
cis-1,3-Dichloropropene	ND	*	8.7	1.9	ug/Kg			10/27/12 02:40	1
trans-1,3-Dichloropropene	ND		8.7	2.7	ug/Kg			10/27/12 02:40	1
N-Propylbenzene	ND		8.7	2.7	ug/Kg			10/27/12 02:40	1
n-Butylbenzene	ND		22	3.1	ug/Kg			10/27/12 02:40	1
4-Chlorotoluene	ND		22	3.2	ug/Kg			10/27/12 02:40	1
1,4-Dichlorobenzene	ND		8.7	4.1	ug/Kg			10/27/12 02:40	1
1,2-Dibromoethane (EDB)	ND		8.7	3.5	ug/Kg			10/27/12 02:40	1
1,2-Dichloroethane	ND		8.7	3.5	ug/Kg			10/27/12 02:40	1
4-Methyl-2-pentanone (MIBK)	ND		22	20	ug/Kg			10/27/12 02:40	1
1,3,5-Trimethylbenzene	ND		8.7	2.7	ug/Kg			10/27/12 02:40	1
Bromobenzene	ND		22	3.7	ug/Kg			10/27/12 02:40	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Client Sample ID: 125727_T1S3

Lab Sample ID: 440-27510-3

Date Collected: 10/23/12 08:24

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		8.7	2.2	ug/Kg			10/27/12 02:40	1
Chlorobenzene	ND		8.7	2.3	ug/Kg			10/27/12 02:40	1
1,2,4-Trichlorobenzene	ND		22	4.3	ug/Kg			10/27/12 02:40	1
Dibromochloromethane	ND		8.7	3.0	ug/Kg			10/27/12 02:40	1
Tetrachloroethene	ND		8.7	2.1	ug/Kg			10/27/12 02:40	1
sec-Butylbenzene	ND		22	2.9	ug/Kg			10/27/12 02:40	1
m,p-Xylene	ND		8.7	3.5	ug/Kg			10/27/12 02:40	1
1,3-Dichloropropane	ND		8.7	2.7	ug/Kg			10/27/12 02:40	1
cis-1,2-Dichloroethene	ND		8.7	3.6	ug/Kg			10/27/12 02:40	1
trans-1,2-Dichloroethene	ND		8.7	3.0	ug/Kg			10/27/12 02:40	1
Methyl-t-Butyl Ether (MTBE)	ND		22	4.3	ug/Kg			10/27/12 02:40	1
1,3-Dichlorobenzene	ND		8.7	3.7	ug/Kg			10/27/12 02:40	1
Carbon tetrachloride	ND		22	2.2	ug/Kg			10/27/12 02:40	1
1,1-Dichloropropene	ND		8.7	1.7	ug/Kg			10/27/12 02:40	1
2-Hexanone	ND		110	40	ug/Kg			10/27/12 02:40	1
2,2-Dichloropropane	ND		8.7	2.6	ug/Kg			10/27/12 02:40	1
1,1,1,2-Tetrachloroethane	ND		22	2.5	ug/Kg			10/27/12 02:40	1
Acetone	ND		43	35	ug/Kg			10/27/12 02:40	1
Chloroform	ND		8.7	2.2	ug/Kg			10/27/12 02:40	1
Benzene	ND		8.7	2.2	ug/Kg			10/27/12 02:40	1
1,1,1-Trichloroethane	ND		8.7	3.0	ug/Kg			10/27/12 02:40	1
Bromomethane	ND		22	4.0	ug/Kg			10/27/12 02:40	1
Chloromethane	ND		22	4.3	ug/Kg			10/27/12 02:40	1
Dibromomethane	ND		8.7	3.9	ug/Kg			10/27/12 02:40	1
Bromochloromethane	ND		22	3.9	ug/Kg			10/27/12 02:40	1
Chloroethane	ND		22	6.5	ug/Kg			10/27/12 02:40	1
Vinyl chloride	ND		22	4.0	ug/Kg			10/27/12 02:40	1
Methylene Chloride	ND		87	28	ug/Kg			10/27/12 02:40	1
Carbon disulfide	ND		22	4.2	ug/Kg			10/27/12 02:40	1
Bromoform	ND		22	3.5	ug/Kg			10/27/12 02:40	1
Bromodichloromethane	ND		8.7	2.2	ug/Kg			10/27/12 02:40	1
1,1-Dichloroethane	ND		8.7	2.2	ug/Kg			10/27/12 02:40	1
1,1-Dichloroethene	ND		22	2.6	ug/Kg			10/27/12 02:40	1
Trichlorofluoromethane	ND		22	2.3	ug/Kg			10/27/12 02:40	1
Dichlorodifluoromethane	ND		22	6.5	ug/Kg			10/27/12 02:40	1
1,2-Dichloropropane	ND		8.7	3.5	ug/Kg			10/27/12 02:40	1
2-Butanone (MEK)	ND		43	26	ug/Kg			10/27/12 02:40	1
1,1,2-Trichloroethane	ND		8.7	3.8	ug/Kg			10/27/12 02:40	1
Trichloroethene	ND		8.7	2.2	ug/Kg			10/27/12 02:40	1
1,1,2,2-Tetrachloroethane	ND		8.7	3.7	ug/Kg			10/27/12 02:40	1
1,2,3-Trichlorobenzene	ND		22	4.3	ug/Kg			10/27/12 02:40	1
Hexachlorobutadiene	ND		22	3.5	ug/Kg			10/27/12 02:40	1
Naphthalene	ND		22	4.8	ug/Kg			10/27/12 02:40	1
o-Xylene	ND		8.7	2.2	ug/Kg			10/27/12 02:40	1
2-Chlorotoluene	ND		22	3.8	ug/Kg			10/27/12 02:40	1
1,2-Dichlorobenzene	ND		8.7	4.1	ug/Kg			10/27/12 02:40	1
1,2,4-Trimethylbenzene	ND		8.7	3.4	ug/Kg			10/27/12 02:40	1
1,2-Dibromo-3-Chloropropane	ND		22	6.5	ug/Kg			10/27/12 02:40	1
1,2,3-Trichloropropane	ND		43	4.3	ug/Kg			10/27/12 02:40	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Client Sample ID: 125727_T1S3

Lab Sample ID: 440-27510-3

Date Collected: 10/23/12 08:24

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		22	2.7	ug/Kg			10/27/12 02:40	1
Isopropylbenzene	ND		8.7	2.3	ug/Kg			10/27/12 02:40	1
p-Isopropyltoluene	ND		8.7	3.1	ug/Kg			10/27/12 02:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	111		80 - 120					10/27/12 02:40	1
4-Bromofluorobenzene (Surr)	101		80 - 120					10/27/12 02:40	1
Dibromofluoromethane (Surr)	112		80 - 125					10/27/12 02:40	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 20:56	1
Aroclor 1221	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 20:56	1
Aroclor 1232	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 20:56	1
Aroclor 1242	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 20:56	1
Aroclor 1248	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 20:56	1
Aroclor 1254	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 20:56	1
Aroclor 1260	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 20:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	81		45 - 120				11/01/12 09:29	11/01/12 20:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.8	J	10	1.2	mg/Kg		10/30/12 19:04	11/01/12 14:36	5
Arsenic	8.2		2.0	0.81	mg/Kg		10/30/12 19:04	11/01/12 14:36	5
Barium	69		1.0	0.80	mg/Kg		10/30/12 19:04	11/01/12 14:36	5
Beryllium	0.50		0.50	0.20	mg/Kg		10/30/12 19:04	11/01/12 14:36	5
Cadmium	ND		0.50	0.20	mg/Kg		10/30/12 19:04	11/01/12 14:36	5
Chromium	16		1.0	0.30	mg/Kg		10/30/12 19:04	11/01/12 14:36	5
Cobalt	4.5		1.0	0.30	mg/Kg		10/30/12 19:04	11/01/12 14:36	5
Copper	7.9		2.0	0.38	mg/Kg		10/30/12 19:04	11/01/12 14:36	5
Lead	3.9	B	2.0	0.50	mg/Kg		10/30/12 19:04	11/01/12 14:36	5
Molybdenum	1.2	J	2.0	0.20	mg/Kg		10/30/12 19:04	11/01/12 14:36	5
Nickel	11		2.0	0.20	mg/Kg		10/30/12 19:04	11/01/12 14:36	5
Selenium	3.3	B	2.0	1.0	mg/Kg		10/30/12 19:04	11/01/12 14:36	5
Thallium	ND		10	0.80	mg/Kg		10/30/12 19:04	11/01/12 14:36	5
Vanadium	28		1.0	0.30	mg/Kg		10/30/12 19:04	11/01/12 14:36	5
Zinc	46	B	5.0	0.50	mg/Kg		10/30/12 19:04	11/01/12 14:36	5
Silver	ND		1.0	0.80	mg/Kg		10/30/12 19:04	11/01/12 14:36	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.012	mg/Kg		11/01/12 20:45	11/02/12 15:48	1

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Tritium	0.18		0.22	0.22	0.37	pCi/g	11/15/12 00:00	11/20/12 20:25	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Client Sample ID: 125727_T1S3

Lab Sample ID: 440-27510-3

Date Collected: 10/23/12 08:24

Matrix: Solid

Date Received: 10/23/12 19:15

Percent Solids: 77

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Uranium 234	0.98		0.15	0.17	0.03	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Uranium 235/236	0.031		0.031	0.031	0.036	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Uranium 238	0.78		0.13	0.15	0.03	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Tracer	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Uranium-232	60		30 - 110				11/09/12 00:00	11/13/12 20:19	1

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Actinium 228	1.15		0.08	0.14	0.15	pCi/g	10/30/12 00:00	11/20/12 11:41	1
Antimony 125	0.136	J	0.036	0.039	0.057	pCi/g	10/30/12 00:00	11/20/12 11:41	1
Cesium 134	0.013	U	0.018	0.018	0.076	pCi/g	10/30/12 00:00	11/20/12 11:41	1
Cesium 137	0.014	U	0.019	0.019	0.032	pCi/g	10/30/12 00:00	11/20/12 11:41	1
Cobalt 60	0.029		0.014	0.014	0.024	pCi/g	10/30/12 00:00	11/20/12 11:41	1
Europium 152	-0.018	U	0.046	0.046	0.076	pCi/g	10/30/12 00:00	11/20/12 11:41	1
Europium 154	-0.06	U	0.11	0.11	0.18	pCi/g	10/30/12 00:00	11/20/12 11:41	1
Europium 155	0.082	J	0.056	0.057	0.067	pCi/g	10/30/12 00:00	11/20/12 11:41	1
Potassium 40	19.3		0.7	2.1	0.3	pCi/g	10/30/12 00:00	11/20/12 11:41	1
Radium (226)	0.97	J	0.06	0.12	0.05	pCi/g	10/30/12 00:00	11/20/12 11:41	1
Sodium 22	0.006	U	0.021	0.021	0.035	pCi/g	10/30/12 00:00	11/20/12 11:41	1
Thorium 232	1.15		0.08	0.14	0.15	pCi/g	10/30/12 00:00	11/20/12 11:41	1
Thorium 234	1.24		0.23	0.27	0.34	pCi/g	10/30/12 00:00	11/20/12 11:41	1
Actinium 227	0.14		0.15	0.15	0.24	pCi/g	10/30/12 00:00	11/20/12 11:41	1
Protactinium 231	-0.06	U	0.23	0.23	1.3	pCi/g	10/30/12 00:00	11/20/12 11:41	1
Other Detected			Count	Total					
Radionuclides	Result	Qualifier	Uncert.	Uncert.	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2.000σ+/-)	(2.000σ+/-)					
Barium 133	-0.151	U	0.032	0.036	0.050	pCi/g	10/30/12 00:00	11/20/12 11:41	1
Bismuth 212	1.00		0.19	0.22	0.18	pCi/g	10/30/12 00:00	11/20/12 11:41	1
Bismuth 214	0.97		0.06	0.12	0.05	pCi/g	10/30/12 00:00	11/20/12 11:41	1
Lead 212	1.16		0.05	0.16	0.05	pCi/g	10/30/12 00:00	11/20/12 11:41	1
Lead 214	1.06		0.06	0.13	0.05	pCi/g	10/30/12 00:00	11/20/12 11:41	1
Thallium 208	0.416		0.032	0.054	0.025	pCi/g	10/30/12 00:00	11/20/12 11:41	1

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Strontium Total	0.013	U	0.027	0.027	0.046	pCi/g	07/01/13 00:00	07/14/13 16:51	1
Tracer	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Sr Tracer	79		40 - 110				07/01/13 00:00	07/14/13 16:51	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Client Sample ID: 125727_T4S4

Lab Sample ID: 440-27510-4

Date Collected: 10/23/12 07:55

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.1	2.3	ug/Kg			10/27/12 03:08	1
Styrene	ND		9.1	2.6	ug/Kg			10/27/12 03:08	1
cis-1,3-Dichloropropene	ND	*	9.1	2.0	ug/Kg			10/27/12 03:08	1
trans-1,3-Dichloropropene	ND		9.1	2.8	ug/Kg			10/27/12 03:08	1
N-Propylbenzene	ND		9.1	2.8	ug/Kg			10/27/12 03:08	1
n-Butylbenzene	ND		23	3.3	ug/Kg			10/27/12 03:08	1
4-Chlorotoluene	ND		23	3.4	ug/Kg			10/27/12 03:08	1
1,4-Dichlorobenzene	ND		9.1	4.3	ug/Kg			10/27/12 03:08	1
1,2-Dibromoethane (EDB)	ND		9.1	3.6	ug/Kg			10/27/12 03:08	1
1,2-Dichloroethane	ND		9.1	3.6	ug/Kg			10/27/12 03:08	1
4-Methyl-2-pentanone (MIBK)	ND		23	20	ug/Kg			10/27/12 03:08	1
1,3,5-Trimethylbenzene	ND		9.1	2.9	ug/Kg			10/27/12 03:08	1
Bromobenzene	ND		23	3.8	ug/Kg			10/27/12 03:08	1
Toluene	ND		9.1	2.3	ug/Kg			10/27/12 03:08	1
Chlorobenzene	ND		9.1	2.4	ug/Kg			10/27/12 03:08	1
1,2,4-Trichlorobenzene	ND		23	4.5	ug/Kg			10/27/12 03:08	1
Dibromochloromethane	ND		9.1	3.2	ug/Kg			10/27/12 03:08	1
Tetrachloroethene	ND		9.1	2.2	ug/Kg			10/27/12 03:08	1
sec-Butylbenzene	ND		23	3.0	ug/Kg			10/27/12 03:08	1
m,p-Xylene	ND		9.1	3.6	ug/Kg			10/27/12 03:08	1
1,3-Dichloropropane	ND		9.1	2.9	ug/Kg			10/27/12 03:08	1
cis-1,2-Dichloroethene	ND		9.1	3.8	ug/Kg			10/27/12 03:08	1
trans-1,2-Dichloroethene	ND		9.1	3.2	ug/Kg			10/27/12 03:08	1
Methyl-t-Butyl Ether (MTBE)	ND		23	4.5	ug/Kg			10/27/12 03:08	1
1,3-Dichlorobenzene	ND		9.1	3.8	ug/Kg			10/27/12 03:08	1
Carbon tetrachloride	ND		23	2.3	ug/Kg			10/27/12 03:08	1
1,1-Dichloropropene	ND		9.1	1.8	ug/Kg			10/27/12 03:08	1
2-Hexanone	ND		110	41	ug/Kg			10/27/12 03:08	1
2,2-Dichloropropane	ND		9.1	2.7	ug/Kg			10/27/12 03:08	1
1,1,1,2-Tetrachloroethane	ND		23	2.6	ug/Kg			10/27/12 03:08	1
Acetone	ND		45	36	ug/Kg			10/27/12 03:08	1
Chloroform	ND		9.1	2.3	ug/Kg			10/27/12 03:08	1
Benzene	ND		9.1	2.3	ug/Kg			10/27/12 03:08	1
1,1,1-Trichloroethane	ND		9.1	3.2	ug/Kg			10/27/12 03:08	1
Bromomethane	ND		23	4.2	ug/Kg			10/27/12 03:08	1
Chloromethane	ND		23	4.5	ug/Kg			10/27/12 03:08	1
Dibromomethane	ND		9.1	4.1	ug/Kg			10/27/12 03:08	1
Bromochloromethane	ND		23	4.1	ug/Kg			10/27/12 03:08	1
Chloroethane	ND		23	6.8	ug/Kg			10/27/12 03:08	1
Vinyl chloride	ND		23	4.1	ug/Kg			10/27/12 03:08	1
Methylene Chloride	ND		91	30	ug/Kg			10/27/12 03:08	1
Carbon disulfide	ND		23	4.4	ug/Kg			10/27/12 03:08	1
Bromoform	ND		23	3.6	ug/Kg			10/27/12 03:08	1
Bromodichloromethane	ND		9.1	2.3	ug/Kg			10/27/12 03:08	1
1,1-Dichloroethane	ND		9.1	2.3	ug/Kg			10/27/12 03:08	1
1,1-Dichloroethene	ND		23	2.7	ug/Kg			10/27/12 03:08	1
Trichlorofluoromethane	ND		23	2.5	ug/Kg			10/27/12 03:08	1
Dichlorodifluoromethane	ND		23	6.8	ug/Kg			10/27/12 03:08	1
1,2-Dichloropropane	ND		9.1	3.6	ug/Kg			10/27/12 03:08	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Client Sample ID: 125727_T4S4

Lab Sample ID: 440-27510-4

Date Collected: 10/23/12 07:55

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		45	27	ug/Kg			10/27/12 03:08	1
1,1,2-Trichloroethane	ND		9.1	4.0	ug/Kg			10/27/12 03:08	1
Trichloroethene	ND		9.1	2.3	ug/Kg			10/27/12 03:08	1
1,1,2,2-Tetrachloroethane	ND		9.1	3.9	ug/Kg			10/27/12 03:08	1
1,2,3-Trichlorobenzene	ND		23	4.5	ug/Kg			10/27/12 03:08	1
Hexachlorobutadiene	ND		23	3.6	ug/Kg			10/27/12 03:08	1
Naphthalene	ND		23	5.0	ug/Kg			10/27/12 03:08	1
o-Xylene	ND		9.1	2.3	ug/Kg			10/27/12 03:08	1
2-Chlorotoluene	ND		23	4.0	ug/Kg			10/27/12 03:08	1
1,2-Dichlorobenzene	ND		9.1	4.3	ug/Kg			10/27/12 03:08	1
1,2,4-Trimethylbenzene	ND		9.1	3.5	ug/Kg			10/27/12 03:08	1
1,2-Dibromo-3-Chloropropane	ND		23	6.8	ug/Kg			10/27/12 03:08	1
1,2,3-Trichloropropane	ND		45	4.5	ug/Kg			10/27/12 03:08	1
tert-Butylbenzene	ND		23	2.8	ug/Kg			10/27/12 03:08	1
Isopropylbenzene	ND		9.1	2.5	ug/Kg			10/27/12 03:08	1
p-Isopropyltoluene	ND		9.1	3.3	ug/Kg			10/27/12 03:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		80 - 120					10/27/12 03:08	1
4-Bromofluorobenzene (Surr)	105		80 - 120					10/27/12 03:08	1
Dibromofluoromethane (Surr)	113		80 - 125					10/27/12 03:08	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 21:09	1
Aroclor 1221	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 21:09	1
Aroclor 1232	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 21:09	1
Aroclor 1242	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 21:09	1
Aroclor 1248	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 21:09	1
Aroclor 1254	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 21:09	1
Aroclor 1260	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 21:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	81		45 - 120				11/01/12 09:29	11/01/12 21:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.5	J	10	1.2	mg/Kg		10/30/12 19:04	11/01/12 14:38	5
Arsenic	8.6		2.0	0.81	mg/Kg		10/30/12 19:04	11/01/12 14:38	5
Barium	70		1.0	0.80	mg/Kg		10/30/12 19:04	11/01/12 14:38	5
Beryllium	0.51		0.50	0.20	mg/Kg		10/30/12 19:04	11/01/12 14:38	5
Cadmium	ND		0.50	0.20	mg/Kg		10/30/12 19:04	11/01/12 14:38	5
Chromium	15		1.0	0.30	mg/Kg		10/30/12 19:04	11/01/12 14:38	5
Cobalt	4.6		1.0	0.30	mg/Kg		10/30/12 19:04	11/01/12 14:38	5
Copper	10		2.0	0.38	mg/Kg		10/30/12 19:04	11/01/12 14:38	5
Lead	34	B	2.0	0.50	mg/Kg		10/30/12 19:04	11/01/12 14:38	5
Molybdenum	1.3	J	2.0	0.20	mg/Kg		10/30/12 19:04	11/01/12 14:38	5
Nickel	11		2.0	0.20	mg/Kg		10/30/12 19:04	11/01/12 14:38	5
Selenium	3.5	B	2.0	1.0	mg/Kg		10/30/12 19:04	11/01/12 14:38	5
Thallium	ND		10	0.80	mg/Kg		10/30/12 19:04	11/01/12 14:38	5

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Client Sample ID: 125727_T4S4

Lab Sample ID: 440-27510-4

Date Collected: 10/23/12 07:55

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	27		1.0	0.30	mg/Kg		10/30/12 19:04	11/01/12 14:38	5
Zinc	44	B	5.0	0.50	mg/Kg		10/30/12 19:04	11/01/12 14:38	5
Silver	ND		1.0	0.80	mg/Kg		10/30/12 19:04	11/01/12 14:38	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.85		0.020	0.012	mg/Kg		11/01/12 20:45	11/02/12 15:51	1

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Tritium	0.01	U	0.18	0.18	0.34	pCi/g	11/15/12 00:00	11/20/12 20:48	1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Uranium 234	0.62		0.13	0.14	0.04	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Uranium 235/236	0.064		0.047	0.047	0.037	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Uranium 238	0.72		0.14	0.15	0.04	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Tracer	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Uranium-232	53		30 - 110				11/09/12 00:00	11/13/12 20:19	1

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Actinium 228	1.15		0.08	0.14	0.14	pCi/g	10/30/12 00:00	12/17/12 22:02	1
Antimony 125	0.095	J	0.024	0.026	0.065	pCi/g	10/30/12 00:00	12/17/12 22:02	1
Cesium 134	-0.018	U	0.015	0.015	0.025	pCi/g	10/30/12 00:00	12/17/12 22:02	1
Cesium 137	-0.005	U	0.016	0.016	0.027	pCi/g	10/30/12 00:00	12/17/12 22:02	1
Cobalt 60	0.0015	U	0.0083	0.0083	0.019	pCi/g	10/30/12 00:00	12/17/12 22:02	1
Europium 152	0.015	U	0.039	0.039	0.064	pCi/g	10/30/12 00:00	12/17/12 22:02	1
Europium 154	0.0012	U	0.0044	0.0044	0.16	pCi/g	10/30/12 00:00	12/17/12 22:02	1
Europium 155	0.049	J	0.048	0.048	0.062	pCi/g	10/30/12 00:00	12/17/12 22:02	1
Potassium 40	19.7		0.6	2.1	0.3	pCi/g	10/30/12 00:00	12/17/12 22:02	1
Radium (226)	0.85	J	0.06	0.11	0.05	pCi/g	10/30/12 00:00	12/17/12 22:02	1
Sodium 22	-0.008	U	0.018	0.018	0.030	pCi/g	10/30/12 00:00	12/17/12 22:02	1
Thorium 232	1.15		0.08	0.14	0.14	pCi/g	10/30/12 00:00	12/17/12 22:02	1
Thorium 234	1.34		0.25	0.29	0.32	pCi/g	10/30/12 00:00	12/17/12 22:02	1
Actinium 227	0.038	U	0.041	0.041	0.25	pCi/g	10/30/12 00:00	12/17/12 22:02	1
Protactinium 231	0.41	U	0.58	0.59	0.96	pCi/g	10/30/12 00:00	12/17/12 22:02	1
Other Detected			Count	Total					
Radionuclides	Result	Qualifier	Uncert.	Uncert.	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2.000σ+/-)	(2.000σ+/-)					
Barium 133	-0.005	U	0.011	0.011	0.028	pCi/g	10/30/12 00:00	12/17/12 22:02	1
Bismuth 212	0.78		0.15	0.17	0.15	pCi/g	10/30/12 00:00	12/17/12 22:02	1
Bismuth 214	0.85		0.06	0.11	0.05	pCi/g	10/30/12 00:00	12/17/12 22:02	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Client Sample ID: 125727_T4S4

Lab Sample ID: 440-27510-4

Date Collected: 10/23/12 07:55

Matrix: Solid

Date Received: 10/23/12 19:15

Percent Solids: 93.4

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD (Continued)

Other Detected Radionuclides	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2.000σ+/-)	Uncert. (2.000σ+/-)					
Lead 212	1.17		0.04	0.16	0.04	pCi/g	10/30/12 00:00	12/17/12 22:02	1
Lead 214	0.90		0.05	0.11	0.05	pCi/g	10/30/12 00:00	12/17/12 22:02	1
Thallium 208	0.384		0.029	0.050	0.025	pCi/g	10/30/12 00:00	12/17/12 22:02	1

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2.000σ+/-)	Uncert. (2.000σ+/-)					
Strontium Total	0.011	U	0.024	0.024	0.040	pCi/g	07/01/13 00:00	07/14/13 16:51	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Sr Tracer	79		40 - 110	07/01/13 00:00	07/14/13 16:51	1

Client Sample ID: 125727_T7S5

Lab Sample ID: 440-27510-5

Date Collected: 10/23/12 08:46

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		7.4	1.8	ug/Kg			10/27/12 03:35	1
Styrene	ND		7.4	2.1	ug/Kg			10/27/12 03:35	1
cis-1,3-Dichloropropene	ND	*	7.4	1.6	ug/Kg			10/27/12 03:35	1
trans-1,3-Dichloropropene	ND		7.4	2.2	ug/Kg			10/27/12 03:35	1
N-Propylbenzene	ND		7.4	2.2	ug/Kg			10/27/12 03:35	1
n-Butylbenzene	ND		18	2.6	ug/Kg			10/27/12 03:35	1
4-Chlorotoluene	ND		18	2.7	ug/Kg			10/27/12 03:35	1
1,4-Dichlorobenzene	ND		7.4	3.5	ug/Kg			10/27/12 03:35	1
1,2-Dibromoethane (EDB)	ND		7.4	2.9	ug/Kg			10/27/12 03:35	1
1,2-Dichloroethane	ND		7.4	2.9	ug/Kg			10/27/12 03:35	1
4-Methyl-2-pentanone (MIBK)	ND		18	17	ug/Kg			10/27/12 03:35	1
1,3,5-Trimethylbenzene	ND		7.4	2.3	ug/Kg			10/27/12 03:35	1
Bromobenzene	ND		18	3.1	ug/Kg			10/27/12 03:35	1
Toluene	ND		7.4	1.8	ug/Kg			10/27/12 03:35	1
Chlorobenzene	ND		7.4	1.9	ug/Kg			10/27/12 03:35	1
1,2,4-Trichlorobenzene	ND		18	3.7	ug/Kg			10/27/12 03:35	1
Dibromochloromethane	ND		7.4	2.6	ug/Kg			10/27/12 03:35	1
Tetrachloroethene	ND		7.4	1.8	ug/Kg			10/27/12 03:35	1
sec-Butylbenzene	ND		18	2.5	ug/Kg			10/27/12 03:35	1
m,p-Xylene	ND		7.4	2.9	ug/Kg			10/27/12 03:35	1
1,3-Dichloropropane	ND		7.4	2.3	ug/Kg			10/27/12 03:35	1
cis-1,2-Dichloroethene	ND		7.4	3.1	ug/Kg			10/27/12 03:35	1
trans-1,2-Dichloroethene	ND		7.4	2.6	ug/Kg			10/27/12 03:35	1
Methyl-t-Butyl Ether (MTBE)	ND		18	3.7	ug/Kg			10/27/12 03:35	1
1,3-Dichlorobenzene	ND		7.4	3.1	ug/Kg			10/27/12 03:35	1
Carbon tetrachloride	ND		18	1.8	ug/Kg			10/27/12 03:35	1
1,1-Dichloropropene	ND		7.4	1.5	ug/Kg			10/27/12 03:35	1
2-Hexanone	ND		92	33	ug/Kg			10/27/12 03:35	1
2,2-Dichloropropane	ND		7.4	2.2	ug/Kg			10/27/12 03:35	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Client Sample ID: 125727_T7S5

Lab Sample ID: 440-27510-5

Date Collected: 10/23/12 08:46

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		18	2.1	ug/Kg			10/27/12 03:35	1
Acetone	ND		37	29	ug/Kg			10/27/12 03:35	1
Chloroform	ND		7.4	1.8	ug/Kg			10/27/12 03:35	1
Benzene	ND		7.4	1.8	ug/Kg			10/27/12 03:35	1
1,1,1-Trichloroethane	ND		7.4	2.6	ug/Kg			10/27/12 03:35	1
Bromomethane	ND		18	3.4	ug/Kg			10/27/12 03:35	1
Chloromethane	ND		18	3.7	ug/Kg			10/27/12 03:35	1
Dibromomethane	ND		7.4	3.3	ug/Kg			10/27/12 03:35	1
Bromochloromethane	ND		18	3.3	ug/Kg			10/27/12 03:35	1
Chloroethane	ND		18	5.5	ug/Kg			10/27/12 03:35	1
Vinyl chloride	ND		18	3.3	ug/Kg			10/27/12 03:35	1
Methylene Chloride	ND		74	24	ug/Kg			10/27/12 03:35	1
Carbon disulfide	ND		18	3.6	ug/Kg			10/27/12 03:35	1
Bromoform	ND		18	2.9	ug/Kg			10/27/12 03:35	1
Bromodichloromethane	ND		7.4	1.8	ug/Kg			10/27/12 03:35	1
1,1-Dichloroethane	ND		7.4	1.8	ug/Kg			10/27/12 03:35	1
1,1-Dichloroethene	ND		18	2.2	ug/Kg			10/27/12 03:35	1
Trichlorofluoromethane	ND		18	2.0	ug/Kg			10/27/12 03:35	1
Dichlorodifluoromethane	ND		18	5.5	ug/Kg			10/27/12 03:35	1
1,2-Dichloropropane	ND		7.4	2.9	ug/Kg			10/27/12 03:35	1
2-Butanone (MEK)	ND		37	22	ug/Kg			10/27/12 03:35	1
1,1,2-Trichloroethane	ND		7.4	3.2	ug/Kg			10/27/12 03:35	1
Trichloroethene	ND		7.4	1.8	ug/Kg			10/27/12 03:35	1
1,1,2,2-Tetrachloroethane	ND		7.4	3.2	ug/Kg			10/27/12 03:35	1
1,2,3-Trichlorobenzene	ND		18	3.7	ug/Kg			10/27/12 03:35	1
Hexachlorobutadiene	ND		18	2.9	ug/Kg			10/27/12 03:35	1
Naphthalene	ND		18	4.0	ug/Kg			10/27/12 03:35	1
o-Xylene	ND		7.4	1.8	ug/Kg			10/27/12 03:35	1
2-Chlorotoluene	ND		18	3.2	ug/Kg			10/27/12 03:35	1
1,2-Dichlorobenzene	ND		7.4	3.5	ug/Kg			10/27/12 03:35	1
1,2,4-Trimethylbenzene	ND		7.4	2.9	ug/Kg			10/27/12 03:35	1
1,2-Dibromo-3-Chloropropane	ND		18	5.5	ug/Kg			10/27/12 03:35	1
1,2,3-Trichloropropane	ND		37	3.7	ug/Kg			10/27/12 03:35	1
tert-Butylbenzene	ND		18	2.3	ug/Kg			10/27/12 03:35	1
Isopropylbenzene	ND		7.4	2.0	ug/Kg			10/27/12 03:35	1
p-Isopropyltoluene	ND		7.4	2.6	ug/Kg			10/27/12 03:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	110		80 - 120					10/27/12 03:35	1
4-Bromofluorobenzene (Surr)	107		80 - 120					10/27/12 03:35	1
Dibromofluoromethane (Surr)	106		80 - 125					10/27/12 03:35	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 21:22	1
Aroclor 1221	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 21:22	1
Aroclor 1232	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 21:22	1
Aroclor 1242	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 21:22	1
Aroclor 1248	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 21:22	1
Aroclor 1254	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 21:22	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Client Sample ID: 125727_T7S5

Lab Sample ID: 440-27510-5

Date Collected: 10/23/12 08:46

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1260	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 21:22	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
DCB Decachlorobiphenyl (Surr)	78		45 - 120				11/01/12 09:29	11/01/12 21:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.5	J	9.8	1.1	mg/Kg		10/30/12 19:04	11/01/12 14:40	5
Arsenic	5.8		2.0	0.79	mg/Kg		10/30/12 19:04	11/01/12 14:40	5
Barium	56		0.98	0.78	mg/Kg		10/30/12 19:04	11/01/12 14:40	5
Beryllium	0.32	J	0.49	0.20	mg/Kg		10/30/12 19:04	11/01/12 14:40	5
Cadmium	ND		0.49	0.20	mg/Kg		10/30/12 19:04	11/01/12 14:40	5
Chromium	12		0.98	0.29	mg/Kg		10/30/12 19:04	11/01/12 14:40	5
Cobalt	3.5		0.98	0.29	mg/Kg		10/30/12 19:04	11/01/12 14:40	5
Copper	8.3		2.0	0.37	mg/Kg		10/30/12 19:04	11/01/12 14:40	5
Lead	2.9	B	2.0	0.49	mg/Kg		10/30/12 19:04	11/01/12 14:40	5
Molybdenum	0.97	J	2.0	0.20	mg/Kg		10/30/12 19:04	11/01/12 14:40	5
Nickel	7.8		2.0	0.20	mg/Kg		10/30/12 19:04	11/01/12 14:40	5
Selenium	1.9	J B	2.0	0.98	mg/Kg		10/30/12 19:04	11/01/12 14:40	5
Thallium	ND		9.8	0.78	mg/Kg		10/30/12 19:04	11/01/12 14:40	5
Vanadium	28		0.98	0.29	mg/Kg		10/30/12 19:04	11/01/12 14:40	5
Zinc	44	B	4.9	0.49	mg/Kg		10/30/12 19:04	11/01/12 14:40	5
Silver	ND		0.98	0.78	mg/Kg		10/30/12 19:04	11/01/12 14:40	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.020	0.012	mg/Kg		11/01/12 20:45	11/02/12 15:53	1

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Tritium	0.06	U	0.19	0.19	0.34	pCi/g	11/15/12 00:00	11/20/12 21:12	1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Uranium 234	0.50		0.1	0.11	0.03	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Uranium 235/236	0.026		0.027	0.027	0.031	pCi/g	11/09/12 00:00	11/13/12 20:19	1
Uranium 238	0.50		0.1	0.11	0.03	pCi/g	11/09/12 00:00	11/13/12 20:19	1
<i>Tracer</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Uranium-232	69		30 - 110				11/09/12 00:00	11/13/12 20:19	1

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Actinium 228	1.17		0.10	0.16	0.17	pCi/g	10/30/12 00:00	11/20/12 19:19	1
Antimony 125	0.142	J	0.037	0.040	0.073	pCi/g	10/30/12 00:00	11/20/12 19:19	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Client Sample ID: 125727_T7S5

Lab Sample ID: 440-27510-5

Date Collected: 10/23/12 08:46

Matrix: Solid

Date Received: 10/23/12 19:15

Percent Solids: 96.4

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD (Continued)

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Cesium 134	0.012	U	0.025	0.025	0.046	pCi/g	10/30/12 00:00	11/20/12 19:19	1
Cesium 137	0.030	J	0.024	0.024	0.029	pCi/g	10/30/12 00:00	11/20/12 19:19	1
Cobalt 60	0.008	U	0.013	0.013	0.027	pCi/g	10/30/12 00:00	11/20/12 19:19	1
Europium 152	0.005	U	0.040	0.040	0.067	pCi/g	10/30/12 00:00	11/20/12 19:19	1
Europium 154	0.014	U	0.032	0.032	0.21	pCi/g	10/30/12 00:00	11/20/12 19:19	1
Europium 155	0.095	J	0.048	0.049	0.061	pCi/g	10/30/12 00:00	11/20/12 19:19	1
Potassium 40	19.7		0.7	2.1	0.2	pCi/g	10/30/12 00:00	11/20/12 19:19	1
Radium (226)	0.720	J	0.059	0.095	0.057	pCi/g	10/30/12 00:00	11/20/12 19:19	1
Sodium 22	-0.003	U	0.038	0.038	0.039	pCi/g	10/30/12 00:00	11/20/12 19:19	1
Thorium 232	1.17		0.10	0.16	0.17	pCi/g	10/30/12 00:00	11/20/12 19:19	1
Actinium 227	0.02	U	0.17	0.17	0.29	pCi/g	10/30/12 00:00	11/20/12 19:19	1
Protactinium 231	0.12	U	0.22	0.22	1.2	pCi/g	10/30/12 00:00	11/20/12 19:19	1

Other Detected Radionuclides	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Barium 133	0.007	U	0.014	0.014	0.040	pCi/g	10/30/12 00:00	11/20/12 19:19	1
Bismuth 212	0.75		0.22	0.23	0.21	pCi/g	10/30/12 00:00	11/20/12 19:19	1
Bismuth 214	0.720		0.059	0.095	0.057	pCi/g	10/30/12 00:00	11/20/12 19:19	1
Lead 212	1.27		0.05	0.17	0.04	pCi/g	10/30/12 00:00	11/20/12 19:19	1
Lead 214	0.744		0.060	0.098	0.058	pCi/g	10/30/12 00:00	11/20/12 19:19	1
Thallium 208	0.410		0.033	0.054	0.026	pCi/g	10/30/12 00:00	11/20/12 19:19	1

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Strontium Total	0.042	J	0.026	0.027	0.041	pCi/g	07/01/13 00:00	07/14/13 16:51	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Sr Tracer	76		40 - 110	07/01/13 00:00	07/14/13 16:51	1

Client Sample ID: 125727_T5S6

Lab Sample ID: 440-27510-6

Date Collected: 10/23/12 08:30

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.5	2.1	ug/Kg			10/27/12 04:02	1
Styrene	ND		8.5	2.5	ug/Kg			10/27/12 04:02	1
cis-1,3-Dichloropropene	ND	*	8.5	1.9	ug/Kg			10/27/12 04:02	1
trans-1,3-Dichloropropene	ND		8.5	2.6	ug/Kg			10/27/12 04:02	1
N-Propylbenzene	ND		8.5	2.6	ug/Kg			10/27/12 04:02	1
n-Butylbenzene	ND		21	3.1	ug/Kg			10/27/12 04:02	1
4-Chlorotoluene	ND		21	3.1	ug/Kg			10/27/12 04:02	1
1,4-Dichlorobenzene	ND		8.5	4.0	ug/Kg			10/27/12 04:02	1
1,2-Dibromoethane (EDB)	ND		8.5	3.4	ug/Kg			10/27/12 04:02	1
1,2-Dichloroethane	ND		8.5	3.4	ug/Kg			10/27/12 04:02	1
4-Methyl-2-pentanone (MIBK)	ND		21	19	ug/Kg			10/27/12 04:02	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Client Sample ID: 125727_T5S6

Lab Sample ID: 440-27510-6

Date Collected: 10/23/12 08:30

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		8.5	2.7	ug/Kg			10/27/12 04:02	1
Bromobenzene	ND		21	3.6	ug/Kg			10/27/12 04:02	1
Toluene	ND		8.5	2.1	ug/Kg			10/27/12 04:02	1
Chlorobenzene	ND		8.5	2.2	ug/Kg			10/27/12 04:02	1
1,2,4-Trichlorobenzene	ND		21	4.2	ug/Kg			10/27/12 04:02	1
Dibromochloromethane	ND		8.5	3.0	ug/Kg			10/27/12 04:02	1
Tetrachloroethene	ND		8.5	2.1	ug/Kg			10/27/12 04:02	1
sec-Butylbenzene	ND		21	2.8	ug/Kg			10/27/12 04:02	1
m,p-Xylene	ND		8.5	3.4	ug/Kg			10/27/12 04:02	1
1,3-Dichloropropane	ND		8.5	2.7	ug/Kg			10/27/12 04:02	1
cis-1,2-Dichloroethene	ND		8.5	3.5	ug/Kg			10/27/12 04:02	1
trans-1,2-Dichloroethene	ND		8.5	3.0	ug/Kg			10/27/12 04:02	1
Methyl-t-Butyl Ether (MTBE)	ND		21	4.2	ug/Kg			10/27/12 04:02	1
1,3-Dichlorobenzene	ND		8.5	3.6	ug/Kg			10/27/12 04:02	1
Carbon tetrachloride	ND		21	2.1	ug/Kg			10/27/12 04:02	1
1,1-Dichloropropene	ND		8.5	1.7	ug/Kg			10/27/12 04:02	1
2-Hexanone	ND		110	39	ug/Kg			10/27/12 04:02	1
2,2-Dichloropropane	ND		8.5	2.5	ug/Kg			10/27/12 04:02	1
1,1,1,2-Tetrachloroethane	ND		21	2.4	ug/Kg			10/27/12 04:02	1
Acetone	ND		42	34	ug/Kg			10/27/12 04:02	1
Chloroform	ND		8.5	2.1	ug/Kg			10/27/12 04:02	1
Benzene	ND		8.5	2.1	ug/Kg			10/27/12 04:02	1
1,1,1-Trichloroethane	ND		8.5	3.0	ug/Kg			10/27/12 04:02	1
Bromomethane	ND		21	3.9	ug/Kg			10/27/12 04:02	1
Chloromethane	ND		21	4.2	ug/Kg			10/27/12 04:02	1
Dibromomethane	ND		8.5	3.8	ug/Kg			10/27/12 04:02	1
Bromochloromethane	ND		21	3.8	ug/Kg			10/27/12 04:02	1
Chloroethane	ND		21	6.4	ug/Kg			10/27/12 04:02	1
Vinyl chloride	ND		21	3.9	ug/Kg			10/27/12 04:02	1
Methylene Chloride	ND		85	28	ug/Kg			10/27/12 04:02	1
Carbon disulfide	ND		21	4.1	ug/Kg			10/27/12 04:02	1
Bromoform	ND		21	3.4	ug/Kg			10/27/12 04:02	1
Bromodichloromethane	ND		8.5	2.1	ug/Kg			10/27/12 04:02	1
1,1-Dichloroethane	ND		8.5	2.1	ug/Kg			10/27/12 04:02	1
1,1-Dichloroethene	ND		21	2.5	ug/Kg			10/27/12 04:02	1
Trichlorofluoromethane	ND		21	2.3	ug/Kg			10/27/12 04:02	1
Dichlorodifluoromethane	ND		21	6.4	ug/Kg			10/27/12 04:02	1
1,2-Dichloropropane	ND		8.5	3.4	ug/Kg			10/27/12 04:02	1
2-Butanone (MEK)	ND		42	25	ug/Kg			10/27/12 04:02	1
1,1,2-Trichloroethane	ND		8.5	3.7	ug/Kg			10/27/12 04:02	1
Trichloroethene	ND		8.5	2.1	ug/Kg			10/27/12 04:02	1
1,1,2,2-Tetrachloroethane	ND		8.5	3.6	ug/Kg			10/27/12 04:02	1
1,2,3-Trichlorobenzene	ND		21	4.2	ug/Kg			10/27/12 04:02	1
Hexachlorobutadiene	ND		21	3.4	ug/Kg			10/27/12 04:02	1
Naphthalene	ND		21	4.7	ug/Kg			10/27/12 04:02	1
o-Xylene	ND		8.5	2.1	ug/Kg			10/27/12 04:02	1
2-Chlorotoluene	ND		21	3.7	ug/Kg			10/27/12 04:02	1
1,2-Dichlorobenzene	ND		8.5	4.0	ug/Kg			10/27/12 04:02	1
1,2,4-Trimethylbenzene	ND		8.5	3.3	ug/Kg			10/27/12 04:02	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Client Sample ID: 125727_T5S6

Lab Sample ID: 440-27510-6

Date Collected: 10/23/12 08:30

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		21	6.4	ug/Kg			10/27/12 04:02	1
1,2,3-Trichloropropane	ND		42	4.2	ug/Kg			10/27/12 04:02	1
tert-Butylbenzene	ND		21	2.6	ug/Kg			10/27/12 04:02	1
Isopropylbenzene	ND		8.5	2.3	ug/Kg			10/27/12 04:02	1
p-Isopropyltoluene	ND		8.5	3.1	ug/Kg			10/27/12 04:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		80 - 120					10/27/12 04:02	1
4-Bromofluorobenzene (Surr)	107		80 - 120					10/27/12 04:02	1
Dibromofluoromethane (Surr)	112		80 - 125					10/27/12 04:02	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 21:35	1
Aroclor 1221	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 21:35	1
Aroclor 1232	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 21:35	1
Aroclor 1242	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 21:35	1
Aroclor 1248	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 21:35	1
Aroclor 1254	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 21:35	1
Aroclor 1260	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 21:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	82		45 - 120				11/01/12 09:29	11/01/12 21:35	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	1.2	mg/Kg		10/30/12 19:04	11/01/12 14:41	5
Arsenic	4.6		2.0	0.81	mg/Kg		10/30/12 19:04	11/01/12 14:41	5
Barium	56		1.0	0.80	mg/Kg		10/30/12 19:04	11/01/12 14:41	5
Beryllium	0.34 J		0.50	0.20	mg/Kg		10/30/12 19:04	11/01/12 14:41	5
Cadmium	ND		0.50	0.20	mg/Kg		10/30/12 19:04	11/01/12 14:41	5
Chromium	12		1.0	0.30	mg/Kg		10/30/12 19:04	11/01/12 14:41	5
Cobalt	3.6		1.0	0.30	mg/Kg		10/30/12 19:04	11/01/12 14:41	5
Copper	6.3		2.0	0.38	mg/Kg		10/30/12 19:04	11/01/12 14:41	5
Lead	2.5 B		2.0	0.50	mg/Kg		10/30/12 19:04	11/01/12 14:41	5
Molybdenum	1.0 J		2.0	0.20	mg/Kg		10/30/12 19:04	11/01/12 14:41	5
Nickel	6.8		2.0	0.20	mg/Kg		10/30/12 19:04	11/01/12 14:41	5
Selenium	1.6 J B		2.0	1.0	mg/Kg		10/30/12 19:04	11/01/12 14:41	5
Thallium	ND		10	0.80	mg/Kg		10/30/12 19:04	11/01/12 14:41	5
Vanadium	27		1.0	0.30	mg/Kg		10/30/12 19:04	11/01/12 14:41	5
Zinc	26 B		5.0	0.50	mg/Kg		10/30/12 19:04	11/01/12 14:41	5
Silver	ND		1.0	0.80	mg/Kg		10/30/12 19:04	11/01/12 14:41	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016 J		0.020	0.012	mg/Kg		11/01/12 20:45	11/02/12 16:01	1

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Client Sample ID: 125727_T5S6

Lab Sample ID: 440-27510-6

Date Collected: 10/23/12 08:30

Matrix: Solid

Date Received: 10/23/12 19:15

Percent Solids: 77

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Analyte	Result	Qualifier	Count Uncert. (2.000σ+/-)	Total Uncert. (2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	0.01	U	0.21	0.21	0.40	pCi/g	11/15/12 00:00	11/20/12 21:36	1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Analyte	Result	Qualifier	Count Uncert. (2.000σ+/-)	Total Uncert. (2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium 234	0.60		0.12	0.13	0.03	pCi/g	11/09/12 00:00	11/13/12 20:20	1
Uranium 235/236	0.021		0.024	0.025	0.019	pCi/g	11/09/12 00:00	11/13/12 20:20	1
Uranium 238	0.61		0.12	0.13	0.02	pCi/g	11/09/12 00:00	11/13/12 20:20	1
Tracer	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Uranium-232	60		30 - 110				11/09/12 00:00	11/13/12 20:20	1

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Analyte	Result	Qualifier	Count Uncert. (2.000σ+/-)	Total Uncert. (2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium 228	1.20		0.08	0.15	0.12	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Antimony 125	0.114	J	0.029	0.032	0.068	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Cesium 134	0.008	U	0.010	0.010	0.022	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Cesium 137	0.007	U	0.013	0.013	0.022	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Cobalt 60	0.004	U	0.010	0.010	0.022	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Europium 152	0.0005	U	0.0015	0.0015	0.071	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Europium 154	0.011	U	0.081	0.081	0.14	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Europium 155	0.069	J	0.044	0.045	0.059	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Potassium 40	19.3		0.6	2.1	0.2	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Radium (226)	0.91	J	0.06	0.11	0.05	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Sodium 22	-0.003	U	0.018	0.018	0.031	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Thorium 232	1.20		0.08	0.15	0.12	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Thorium 234	1.07		0.24	0.27	0.32	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Actinium 227	-0.04	U	0.15	0.15	0.25	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Protactinium 231	-0.23	U	0.68	0.68	1.1	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Other Detected			Count Uncert.	Total Uncert.					
Radionuclides	Result	Qualifier	(2.000σ+/-)	(2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Barium 133	-0.050	U	0.022	0.022	0.034	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Bismuth 212	0.95		0.18	0.20	0.16	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Bismuth 214	0.91		0.06	0.11	0.05	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Lead 212	1.12		0.05	0.15	0.05	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Lead 214	0.96		0.05	0.11	0.05	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Thallium 208	0.387		0.031	0.051	0.027	pCi/g	10/30/12 00:00	11/20/12 19:20	1

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Analyte	Result	Qualifier	Count Uncert. (2.000σ+/-)	Total Uncert. (2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Strontium Total	-0.023	U	0.022	0.023	0.042	pCi/g	07/01/13 00:00	07/14/13 16:51	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Client Sample ID: 125727_T5S6

Lab Sample ID: 440-27510-6

Date Collected: 10/23/12 08:30

Matrix: Solid

Date Received: 10/23/12 19:15

Percent Solids: 77

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Sr Tracer	77		40 - 110	07/01/13 00:00	07/14/13 16:51	1

Client Sample ID: 125727_T6S7

Lab Sample ID: 440-27510-7

Date Collected: 10/23/12 09:02

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.6	2.4	ug/Kg			10/27/12 04:30	1
Styrene	ND		9.6	2.8	ug/Kg			10/27/12 04:30	1
cis-1,3-Dichloropropene	ND	*	9.6	2.1	ug/Kg			10/27/12 04:30	1
trans-1,3-Dichloropropene	ND		9.6	2.9	ug/Kg			10/27/12 04:30	1
N-Propylbenzene	ND		9.6	2.9	ug/Kg			10/27/12 04:30	1
n-Butylbenzene	ND		24	3.5	ug/Kg			10/27/12 04:30	1
4-Chlorotoluene	ND		24	3.6	ug/Kg			10/27/12 04:30	1
1,4-Dichlorobenzene	ND		9.6	4.5	ug/Kg			10/27/12 04:30	1
1,2-Dibromoethane (EDB)	ND		9.6	3.8	ug/Kg			10/27/12 04:30	1
1,2-Dichloroethane	ND		9.6	3.8	ug/Kg			10/27/12 04:30	1
4-Methyl-2-pentanone (MIBK)	ND		24	22	ug/Kg			10/27/12 04:30	1
1,3,5-Trimethylbenzene	ND		9.6	3.0	ug/Kg			10/27/12 04:30	1
Bromobenzene	ND		24	4.0	ug/Kg			10/27/12 04:30	1
Toluene	ND		9.6	2.4	ug/Kg			10/27/12 04:30	1
Chlorobenzene	ND		9.6	2.5	ug/Kg			10/27/12 04:30	1
1,2,4-Trichlorobenzene	ND		24	4.8	ug/Kg			10/27/12 04:30	1
Dibromochloromethane	ND		9.6	3.4	ug/Kg			10/27/12 04:30	1
Tetrachloroethene	ND		9.6	2.4	ug/Kg			10/27/12 04:30	1
sec-Butylbenzene	ND		24	3.2	ug/Kg			10/27/12 04:30	1
m,p-Xylene	ND		9.6	3.8	ug/Kg			10/27/12 04:30	1
1,3-Dichloropropane	ND		9.6	3.0	ug/Kg			10/27/12 04:30	1
cis-1,2-Dichloroethene	ND		9.6	4.0	ug/Kg			10/27/12 04:30	1
trans-1,2-Dichloroethene	ND		9.6	3.4	ug/Kg			10/27/12 04:30	1
Methyl-t-Butyl Ether (MTBE)	ND		24	4.8	ug/Kg			10/27/12 04:30	1
1,3-Dichlorobenzene	ND		9.6	4.0	ug/Kg			10/27/12 04:30	1
Carbon tetrachloride	ND		24	2.4	ug/Kg			10/27/12 04:30	1
1,1-Dichloropropene	ND		9.6	1.9	ug/Kg			10/27/12 04:30	1
2-Hexanone	ND		120	44	ug/Kg			10/27/12 04:30	1
2,2-Dichloropropane	ND		9.6	2.9	ug/Kg			10/27/12 04:30	1
1,1,1,2-Tetrachloroethane	ND		24	2.7	ug/Kg			10/27/12 04:30	1
Acetone	ND		48	38	ug/Kg			10/27/12 04:30	1
Chloroform	ND		9.6	2.4	ug/Kg			10/27/12 04:30	1
Benzene	ND		9.6	2.4	ug/Kg			10/27/12 04:30	1
1,1,1-Trichloroethane	ND		9.6	3.4	ug/Kg			10/27/12 04:30	1
Bromomethane	ND		24	4.4	ug/Kg			10/27/12 04:30	1
Chloromethane	ND		24	4.8	ug/Kg			10/27/12 04:30	1
Dibromomethane	ND		9.6	4.3	ug/Kg			10/27/12 04:30	1
Bromochloromethane	ND		24	4.3	ug/Kg			10/27/12 04:30	1
Chloroethane	ND		24	7.2	ug/Kg			10/27/12 04:30	1
Vinyl chloride	ND		24	4.4	ug/Kg			10/27/12 04:30	1
Methylene Chloride	ND		96	31	ug/Kg			10/27/12 04:30	1
Carbon disulfide	ND		24	4.7	ug/Kg			10/27/12 04:30	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Client Sample ID: 125727_T6S7

Lab Sample ID: 440-27510-7

Date Collected: 10/23/12 09:02

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		24	3.8	ug/Kg			10/27/12 04:30	1
Bromodichloromethane	ND		9.6	2.4	ug/Kg			10/27/12 04:30	1
1,1-Dichloroethane	ND		9.6	2.4	ug/Kg			10/27/12 04:30	1
1,1-Dichloroethene	ND		24	2.9	ug/Kg			10/27/12 04:30	1
Trichlorofluoromethane	ND		24	2.6	ug/Kg			10/27/12 04:30	1
Dichlorodifluoromethane	ND		24	7.2	ug/Kg			10/27/12 04:30	1
1,2-Dichloropropane	ND		9.6	3.8	ug/Kg			10/27/12 04:30	1
2-Butanone (MEK)	ND		48	29	ug/Kg			10/27/12 04:30	1
1,1,2-Trichloroethane	ND		9.6	4.2	ug/Kg			10/27/12 04:30	1
Trichloroethene	ND		9.6	2.4	ug/Kg			10/27/12 04:30	1
1,1,2,2-Tetrachloroethane	ND		9.6	4.1	ug/Kg			10/27/12 04:30	1
1,2,3-Trichlorobenzene	ND		24	4.8	ug/Kg			10/27/12 04:30	1
Hexachlorobutadiene	ND		24	3.8	ug/Kg			10/27/12 04:30	1
Naphthalene	ND		24	5.3	ug/Kg			10/27/12 04:30	1
o-Xylene	ND		9.6	2.4	ug/Kg			10/27/12 04:30	1
2-Chlorotoluene	ND		24	4.2	ug/Kg			10/27/12 04:30	1
1,2-Dichlorobenzene	ND		9.6	4.6	ug/Kg			10/27/12 04:30	1
1,2,4-Trimethylbenzene	ND		9.6	3.8	ug/Kg			10/27/12 04:30	1
1,2-Dibromo-3-Chloropropane	ND		24	7.2	ug/Kg			10/27/12 04:30	1
1,2,3-Trichloropropane	ND		48	4.8	ug/Kg			10/27/12 04:30	1
tert-Butylbenzene	ND		24	3.0	ug/Kg			10/27/12 04:30	1
Isopropylbenzene	ND		9.6	2.6	ug/Kg			10/27/12 04:30	1
p-Isopropyltoluene	ND		9.6	3.5	ug/Kg			10/27/12 04:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 120		10/27/12 04:30	1
4-Bromofluorobenzene (Surr)	105		80 - 120		10/27/12 04:30	1
Dibromofluoromethane (Surr)	108		80 - 125		10/27/12 04:30	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 21:48	1
Aroclor 1221	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 21:48	1
Aroclor 1232	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 21:48	1
Aroclor 1242	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 21:48	1
Aroclor 1248	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 21:48	1
Aroclor 1254	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 21:48	1
Aroclor 1260	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 21:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	90		45 - 120	11/01/12 09:29	11/01/12 21:48	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.9	J	10	1.1	mg/Kg		10/30/12 19:04	11/01/12 14:43	5
Arsenic	7.2		2.0	0.81	mg/Kg		10/30/12 19:04	11/01/12 14:43	5
Barium	66		1.0	0.80	mg/Kg		10/30/12 19:04	11/01/12 14:43	5
Beryllium	0.61		0.50	0.20	mg/Kg		10/30/12 19:04	11/01/12 14:43	5
Cadmium	ND		0.50	0.20	mg/Kg		10/30/12 19:04	11/01/12 14:43	5
Chromium	14		1.0	0.30	mg/Kg		10/30/12 19:04	11/01/12 14:43	5

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Client Sample ID: 125727_T6S7

Lab Sample ID: 440-27510-7

Date Collected: 10/23/12 09:02

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	5.4		1.0	0.30	mg/Kg		10/30/12 19:04	11/01/12 14:43	5
Copper	7.3		2.0	0.38	mg/Kg		10/30/12 19:04	11/01/12 14:43	5
Lead	4.9	B	2.0	0.50	mg/Kg		10/30/12 19:04	11/01/12 14:43	5
Molybdenum	1.2	J	2.0	0.20	mg/Kg		10/30/12 19:04	11/01/12 14:43	5
Nickel	11		2.0	0.20	mg/Kg		10/30/12 19:04	11/01/12 14:43	5
Selenium	1.7	J B	2.0	1.0	mg/Kg		10/30/12 19:04	11/01/12 14:43	5
Thallium	ND		10	0.80	mg/Kg		10/30/12 19:04	11/01/12 14:43	5
Vanadium	25		1.0	0.30	mg/Kg		10/30/12 19:04	11/01/12 14:43	5
Zinc	85	B	5.0	0.50	mg/Kg		10/30/12 19:04	11/01/12 14:43	5
Silver	ND		1.0	0.80	mg/Kg		10/30/12 19:04	11/01/12 14:43	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.020	0.012	mg/Kg		11/01/12 20:45	11/02/12 16:04	1

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Tritium	0.12	U	0.21	0.21	0.37	pCi/g	11/15/12 00:00	11/20/12 21:59	1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Uranium 234	0.94		0.16	0.18	0.04	pCi/g	11/15/12 00:00	11/19/12 23:30	1
Uranium 235/236	-0.006	U	0.022	0.022	0.067	pCi/g	11/15/12 00:00	11/19/12 23:30	1
Uranium 238	0.86		0.16	0.17	0.06	pCi/g	11/15/12 00:00	11/19/12 23:30	1
<i>Tracer</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Uranium-232	55		30 - 110				11/15/12 00:00	11/19/12 23:30	1

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Actinium 228	1.25		0.07	0.15	0.11	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Antimony 125	0.114	J	0.027	0.030	0.064	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Cesium 134	-0.033	U	0.018	0.018	0.028	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Cesium 137	-0.003	U	0.016	0.016	0.027	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Cobalt 60	0.0025	U	0.0093	0.0093	0.024	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Europium 152	0.005	U	0.026	0.026	0.067	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Europium 154	-0.009	U	0.015	0.015	0.16	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Europium 155	0.069	J	0.039	0.039	0.053	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Potassium 40	19.6		0.6	2.1	0.2	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Radium (226)	0.85	J	0.05	0.10	0.04	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Sodium 22	-0.002	U	0.016	0.016	0.027	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Thorium 232	1.25		0.07	0.15	0.11	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Thorium 234	1.46		0.26	0.30	0.31	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Actinium 227	0.017	U	0.044	0.044	0.25	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Protactinium 231	-0.22	U	0.68	0.68	1.1	pCi/g	10/30/12 00:00	11/20/12 19:20	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Client Sample ID: 125727_T6S7

Lab Sample ID: 440-27510-7

Date Collected: 10/23/12 09:02

Matrix: Solid

Date Received: 10/23/12 19:15

Percent Solids: 76

<i>Other Detected</i>		<i>Count</i>		<i>Total</i>						
<i>Radionuclides</i>		<i>Result</i>	<i>Qualifier</i>	<i>Uncert.</i>	<i>Uncert.</i>	<i>MDC</i>	<i>Unit</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
				<i>(2.000σ+/-)</i>	<i>(2.000σ+/-)</i>					
Barium 133		-0.025	U	0.019	0.019	0.030	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Bismuth 212		0.94		0.20	0.22	0.17	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Bismuth 214		0.85		0.05	0.10	0.04	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Lead 212		1.20		0.05	0.16	0.04	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Lead 214		0.95		0.05	0.11	0.05	pCi/g	10/30/12 00:00	11/20/12 19:20	1
Thallium 208		0.427		0.033	0.055	0.025	pCi/g	10/30/12 00:00	11/20/12 19:20	1

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

				<i>Count</i>		<i>Total</i>				
<i>Analyte</i>		<i>Result</i>	<i>Qualifier</i>	<i>Uncert.</i>	<i>Uncert.</i>	<i>MDC</i>	<i>Unit</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
				<i>(2.000σ+/-)</i>	<i>(2.000σ+/-)</i>					
Strontium Total		0.011	U	0.023	0.023	0.038	pCi/g	07/01/13 00:00	07/14/13 16:51	1

<i>Tracer</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Sr Tracer	80		40 - 110	07/01/13 00:00	07/14/13 16:51	1

Method Summary

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
7471A	Mercury (CVAA)	SW846	TAL IRV
160.3 MOD	Moisture, Percent (160.3)	MCAWW	TAL SL
906.0 MOD	TRITIUM (Distill) by EPA 906.0 MOD	EPA	TAL SL
A-01-R MOD	Iso URANIUM (LONG CT) DOE A-01-R MOD	EML	TAL SL
GA-01-R MOD	Gamma Ra-226 & Hits By EML GA-01-R MOD	EML	TAL SL
SR-03-RC MOD	Total Strontium by GFPC DOE SR-03-RC MOD	EML	TAL SL

Protocol References:

EML = "Environmental Measurements Laboratory Procedures Manual" HASL-300 27th Edition, Volume 1 US Department Of Energy (Revised February 1992)

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Lab Chronicle

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Client Sample ID: 125727_T3S1

Date Collected: 10/23/12 07:52

Date Received: 10/23/12 19:15

Lab Sample ID: 440-27510-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1.15 g	10 mL	62141	10/27/12 01:46	GK	TAL IRV
Total/NA	Prep	3546			15.06 g	2 mL	62374	10/28/12 14:44	AB	TAL IRV
Total/NA	Analysis	8082		1			62486	10/29/12 16:37	CN	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	62168	10/28/12 15:45	MM	TAL IRV
Total/NA	Analysis	7471A		1			62726	10/29/12 20:15	DB	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	62114	10/26/12 14:32	EN	TAL IRV
Total/NA	Analysis	6010B		5			62775	10/29/12 23:41	DT	TAL IRV
Total/NA	Prep	3050B			1.99 g	50 mL	62905	10/30/12 14:58	DT	TAL IRV
Total/NA	Analysis	6010B		5			63094	10/30/12 21:22	DT	TAL IRV
Total	Analysis	160.3 MOD		1	0	0	2310014	11/06/12 00:00	SB	TAL SL
Total	Prep	Dry, Grind, and Fill Geometry -> 21 day in-growth			388.1 g	0	2304086_P	10/30/12 00:00	RS	TAL SL
Total	Analysis	GA-01-R MOD		1			2304086	11/20/12 13:22	EN	TAL SL
Total	Prep	Extraction Chromatography - Sequential Actinides			2.0021 g	0	2314028_P	11/09/12 00:00		TAL SL
Total	Analysis	A-01-R MOD		1			2314028	11/13/12 20:19	RM	TAL SL
Total	Prep	Distillation and Suspended in LSC Cocktail			30.42 g	0	2320016_P	11/15/12 00:00	NN	TAL SL
Total	Analysis	906.0 MOD		1			2320016	11/20/12 18:51	MJ	TAL SL
Total	Prep	Extraction Chromatography			2.502 g	0	3182027_P	07/01/13 00:00	RS	TAL SL
Total	Analysis	SR-03-RC MOD		1			3182027	07/14/13 16:50	MJ	TAL SL

Client Sample ID: 125727_T2S2

Date Collected: 10/23/12 09:10

Date Received: 10/23/12 19:15

Lab Sample ID: 440-27510-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1.2 g	10 mL	62141	10/27/12 02:13	GK	TAL IRV
Total/NA	Prep	3546			15.01 g	2 mL	63418	11/01/12 09:29	AD	TAL IRV
Total/NA	Analysis	8082		1			63428	11/01/12 20:43	JM	TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	62996	10/30/12 19:04	DT	TAL IRV
Total/NA	Analysis	6010B		5			63562	11/01/12 14:11	DT	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	63314	11/01/12 20:45	MM	TAL IRV
Total/NA	Analysis	7471A		1			63894	11/02/12 15:46	DT	TAL IRV
Total	Analysis	160.3 MOD		1	0	0	2310014	11/06/12 00:00	SB	TAL SL
Total	Prep	Dry, Grind, and Fill Geometry -> 21 day in-growth			408.2 g	0	2304086_P	10/30/12 00:00	RS	TAL SL
Total	Analysis	GA-01-R MOD		1			2304086	11/20/12 11:04	EN	TAL SL

TestAmerica Irvine

Lab Chronicle

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Client Sample ID: 125727_T2S2

Lab Sample ID: 440-27510-2

Date Collected: 10/23/12 09:10

Matrix: Solid

Date Received: 10/23/12 19:15

Percent Solids: 96.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Extraction Chromatography - Sequential Actinides			2.0094 g	0	2314028_P	11/09/12 00:00		TAL SL
Total	Analysis	A-01-R MOD		1			2314028	11/13/12 20:19	RM	TAL SL
Total	Prep	Distillation and Suspended in LSC Cocktail			30.28 g	0	2320016_P	11/15/12 00:00	NN	TAL SL
Total	Analysis	906.0 MOD		1			2320016	11/20/12 19:38	MJ	TAL SL
Total	Prep	Extraction Chromatography			2.5023 g	0	3182027_P	07/01/13 00:00	RS	TAL SL
Total	Analysis	SR-03-RC MOD		1			3182027	07/14/13 16:51	MJ	TAL SL

Client Sample ID: 125727_T1S3

Lab Sample ID: 440-27510-3

Date Collected: 10/23/12 08:24

Matrix: Solid

Date Received: 10/23/12 19:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1.15 g	10 mL	62141	10/27/12 02:40	GK	TAL IRV
Total/NA	Prep	3546			15.03 g	2 mL	63418	11/01/12 09:29	AD	TAL IRV
Total/NA	Analysis	8082		1			63428	11/01/12 20:56	JM	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	62996	10/30/12 19:04	DT	TAL IRV
Total/NA	Analysis	6010B		5			63562	11/01/12 14:36	DT	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	63314	11/01/12 20:45	MM	TAL IRV
Total/NA	Analysis	7471A		1			63894	11/02/12 15:48	DT	TAL IRV
Total	Analysis	160.3 MOD		1	0	0	2310014	11/06/12 00:00	SB	TAL SL
Total	Prep	Dry, Grind, and Fill Geometry -> 21 day in-growth			405.4 g	0	2304086_P	10/30/12 00:00	RS	TAL SL
Total	Analysis	GA-01-R MOD		1			2304086	11/20/12 11:41	EN	TAL SL
Total	Prep	Extraction Chromatography - Sequential Actinides			2.0064 g	0	2314028_P	11/09/12 00:00		TAL SL
Total	Analysis	A-01-R MOD		1			2314028	11/13/12 20:19	RM	TAL SL
Total	Prep	Distillation and Suspended in LSC Cocktail			30.2 g	0	2320016_P	11/15/12 00:00	NN	TAL SL
Total	Analysis	906.0 MOD		1			2320016	11/20/12 20:25	MJ	TAL SL
Total	Prep	Extraction Chromatography			2.5025 g	0	3182027_P	07/01/13 00:00	RS	TAL SL
Total	Analysis	SR-03-RC MOD		1			3182027	07/14/13 16:51	MJ	TAL SL

Lab Chronicle

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Client Sample ID: 125727_T4S4

Lab Sample ID: 440-27510-4

Date Collected: 10/23/12 07:55

Matrix: Solid

Date Received: 10/23/12 19:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1.1 g	10 mL	62141	10/27/12 03:08	GK	TAL IRV
Total/NA	Prep	3546			14.99 g	2 mL	63418	11/01/12 09:29	AD	TAL IRV
Total/NA	Analysis	8082		1			63428	11/01/12 21:09	JM	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	62996	10/30/12 19:04	DT	TAL IRV
Total/NA	Analysis	6010B		5			63562	11/01/12 14:38	DT	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	63314	11/01/12 20:45	MM	TAL IRV
Total/NA	Analysis	7471A		1			63894	11/02/12 15:51	DT	TAL IRV
Total	Analysis	160.3 MOD		1	0	0	2310014	11/06/12 00:00	SB	TAL SL
Total	Prep	Dry, Grind, and Fill Geometry -> 21 day in-growth			397.1 g	0	2304086_P	10/30/12 00:00	RS	TAL SL
Total	Analysis	GA-01-R MOD		1			2304086	12/17/12 22:02	EN	TAL SL
Total	Prep	Extraction Chromatography - Sequential			2.0051 g	0	2314028_P	11/09/12 00:00		TAL SL
Total	Analysis	A-01-R MOD		1			2314028	11/13/12 20:19	RM	TAL SL
Total	Prep	Distillation and Suspended in LSC Cocktail			30.23 g	0	2320016_P	11/15/12 00:00	NN	TAL SL
Total	Analysis	906.0 MOD		1			2320016	11/20/12 20:48	MJ	TAL SL
Total	Prep	Extraction Chromatography			2.5054 g	0	3182027_P	07/01/13 00:00	RS	TAL SL
Total	Analysis	SR-03-RC MOD		1			3182027	07/14/13 16:51	MJ	TAL SL

Client Sample ID: 125727_T7S5

Lab Sample ID: 440-27510-5

Date Collected: 10/23/12 08:46

Matrix: Solid

Date Received: 10/23/12 19:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1.36 g	10 mL	62141	10/27/12 03:35	GK	TAL IRV
Total/NA	Prep	3546			15.03 g	2 mL	63418	11/01/12 09:29	AD	TAL IRV
Total/NA	Analysis	8082		1			63428	11/01/12 21:22	JM	TAL IRV
Total/NA	Prep	3050B			2.04 g	50 mL	62996	10/30/12 19:04	DT	TAL IRV
Total/NA	Analysis	6010B		5			63562	11/01/12 14:40	DT	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	63314	11/01/12 20:45	MM	TAL IRV
Total/NA	Analysis	7471A		1			63894	11/02/12 15:53	DT	TAL IRV
Total	Analysis	160.3 MOD		1	0	0	2310014	11/06/12 00:00	SB	TAL SL
Total	Prep	Dry, Grind, and Fill Geometry -> 21 day in-growth			394.2 g	0	2304086_P	10/30/12 00:00	RS	TAL SL
Total	Analysis	GA-01-R MOD		1			2304086	11/20/12 19:19	EN	TAL SL
Total	Prep	Extraction Chromatography - Sequential			2.01 g	0	2314028_P	11/09/12 00:00		TAL SL
Total	Analysis	A-01-R MOD		1			2314028	11/13/12 20:19	RM	TAL SL

TestAmerica Irvine

Lab Chronicle

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Client Sample ID: 125727_T7S5

Lab Sample ID: 440-27510-5

Date Collected: 10/23/12 08:46

Matrix: Solid

Date Received: 10/23/12 19:15

Percent Solids: 96.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Distillation and Suspended in LSC Cocktail			30.19 g	0	2320016_P	11/15/12 00:00	NN	TAL SL
Total	Analysis	906.0 MOD		1			2320016	11/20/12 21:12	MJ	TAL SL
Total	Prep	Extraction Chromatography			2.5071 g	0	3182027_P	07/01/13 00:00	RS	TAL SL
Total	Analysis	SR-03-RC MOD		1			3182027	07/14/13 16:51	MJ	TAL SL

Client Sample ID: 125727_T5S6

Lab Sample ID: 440-27510-6

Date Collected: 10/23/12 08:30

Matrix: Solid

Date Received: 10/23/12 19:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1.18 g	10 mL	62141	10/27/12 04:02	GK	TAL IRV
Total/NA	Prep	3546			15.02 g	2 mL	63418	11/01/12 09:29	AD	TAL IRV
Total/NA	Analysis	8082		1			63428	11/01/12 21:35	JM	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	62996	10/30/12 19:04	DT	TAL IRV
Total/NA	Analysis	6010B		5			63562	11/01/12 14:41	DT	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	63314	11/01/12 20:45	MM	TAL IRV
Total/NA	Analysis	7471A		1			63894	11/02/12 16:01	DT	TAL IRV
Total	Analysis	160.3 MOD		1	0	0	2310014	11/06/12 00:00	SB	TAL SL
Total	Prep	Dry, Grind, and Fill Geometry -> 21 day in-growth			398 g	0	2304086_P	10/30/12 00:00	RS	TAL SL
Total	Analysis	GA-01-R MOD		1			2304086	11/20/12 19:20	EN	TAL SL
Total	Prep	Extraction Chromatography - Sequential Actinides			2.0022 g	0	2314028_P	11/09/12 00:00		TAL SL
Total	Analysis	A-01-R MOD		1			2314028	11/13/12 20:20	RM	TAL SL
Total	Prep	Distillation and Suspended in LSC Cocktail			30.14 g	0	2320016_P	11/15/12 00:00	NN	TAL SL
Total	Analysis	906.0 MOD		1			2320016	11/20/12 21:36	MJ	TAL SL
Total	Prep	Extraction Chromatography			2.5029 g	0	3182027_P	07/01/13 00:00	RS	TAL SL
Total	Analysis	SR-03-RC MOD		1			3182027	07/14/13 16:51	MJ	TAL SL

Client Sample ID: 125727_T6S7

Lab Sample ID: 440-27510-7

Date Collected: 10/23/12 09:02

Matrix: Solid

Date Received: 10/23/12 19:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1.04 g	10 mL	62141	10/27/12 04:30	GK	TAL IRV
Total/NA	Prep	3546			15.04 g	2 mL	63418	11/01/12 09:29	AD	TAL IRV
Total/NA	Analysis	8082		1			63428	11/01/12 21:48	JM	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Client Sample ID: 125727_T6S7

Lab Sample ID: 440-27510-7

Date Collected: 10/23/12 09:02

Matrix: Solid

Date Received: 10/23/12 19:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	62996	10/30/12 19:04	DT	TAL IRV
Total/NA	Analysis	6010B		5			63562	11/01/12 14:43	DT	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	63314	11/01/12 20:45	MM	TAL IRV
Total/NA	Analysis	7471A		1			63894	11/02/12 16:04	DT	TAL IRV
Total	Analysis	160.3 MOD		1	0	0	2310014	11/06/12 00:00	SB	TAL SL
Total	Prep	Dry, Grind, and Fill Geometry -> 21 day in-growth			396.2 g	0	2304086_P	10/30/12 00:00	RS	TAL SL
Total	Analysis	GA-01-R MOD		1			2304086	11/20/12 19:20	EN	TAL SL
Total	Prep	Distillation and Suspended in LSC Cocktail			30.09 g	0	2320016_P	11/15/12 00:00	NN	TAL SL
Total	Analysis	906.0 MOD		1			2320016	11/20/12 21:59	MJ	TAL SL
Total	Prep	Extraction Chromatography - Sequential			1.0104 g	0	2320043_P	11/15/12 00:00	SM	TAL SL
Total	Analysis	Actinides A-01-R MOD		1			2320043	11/19/12 23:30	RM	TAL SL
Total	Prep	Extraction Chromatography			2.5084 g	0	3182027_P	07/01/13 00:00	RS	TAL SL
Total	Analysis	SR-03-RC MOD		1			3182027	07/14/13 16:51	MJ	TAL SL

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: 440-27446-G-4-B MS

Matrix: Solid

Analysis Batch: 62141

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 61479

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Ethylbenzene	ND		43.9	48.5		ug/Kg		110	70 - 135
Styrene	ND		43.9	53.6		ug/Kg		122	70 - 140
cis-1,3-Dichloropropene	ND	*	43.9	60.0	F	ug/Kg		137	70 - 135
trans-1,3-Dichloropropene	ND		43.9	57.8		ug/Kg		132	60 - 145
N-Propylbenzene	ND		43.9	47.0		ug/Kg		107	65 - 140
n-Butylbenzene	ND		43.9	50.8		ug/Kg		116	55 - 145
4-Chlorotoluene	ND		43.9	46.9		ug/Kg		107	65 - 135
1,4-Dichlorobenzene	ND		43.9	45.7		ug/Kg		104	70 - 130
1,2-Dibromoethane (EDB)	ND		43.9	55.4		ug/Kg		126	65 - 140
1,2-Dichloroethane	ND		43.9	55.1		ug/Kg		125	60 - 150
4-Methyl-2-pentanone (MIBK)	ND		43.9	60.8		ug/Kg		138	40 - 155
1,3,5-Trimethylbenzene	ND		43.9	47.4		ug/Kg		108	65 - 135
Bromobenzene	ND		43.9	44.6		ug/Kg		102	65 - 140
Toluene	ND		43.9	48.9		ug/Kg		111	70 - 130
Chlorobenzene	ND		43.9	47.5		ug/Kg		108	70 - 130
1,2,4-Trichlorobenzene	ND		43.9	43.3		ug/Kg		98	50 - 140
Dibromochloromethane	ND		43.9	53.7		ug/Kg		122	60 - 145
Tetrachloroethene	ND		43.9	49.8		ug/Kg		113	65 - 135
sec-Butylbenzene	ND		43.9	47.9		ug/Kg		109	60 - 135
m,p-Xylene	ND		87.9	101		ug/Kg		114	70 - 130
1,3-Dichloropropane	ND		43.9	51.5		ug/Kg		117	65 - 140
cis-1,2-Dichloroethene	ND		43.9	52.9		ug/Kg		120	65 - 135
trans-1,2-Dichloroethene	ND		43.9	49.8		ug/Kg		113	70 - 135
Methyl-t-Butyl Ether (MTBE)	ND		43.9	58.0		ug/Kg		132	55 - 155
1,3-Dichlorobenzene	ND		43.9	46.4		ug/Kg		106	70 - 130
Carbon tetrachloride	ND		43.9	52.2		ug/Kg		119	60 - 145
1,1-Dichloropropene	ND		43.9	45.6		ug/Kg		104	65 - 135
2-Hexanone	ND		43.9	57.6		ug/Kg		131	35 - 160
2,2-Dichloropropane	ND		43.9	52.6		ug/Kg		120	65 - 150
1,1,1,2-Tetrachloroethane	ND		43.9	51.1		ug/Kg		116	65 - 145
Acetone	ND		43.9	68.5	F	ug/Kg		156	20 - 145
Chloroform	ND		43.9	50.6		ug/Kg		115	65 - 135
Benzene	ND		43.9	46.9		ug/Kg		107	65 - 130
1,1,1-Trichloroethane	ND		43.9	50.4		ug/Kg		115	65 - 145
Bromomethane	ND		43.9	52.5		ug/Kg		120	60 - 155
Chloromethane	ND		43.9	45.0		ug/Kg		102	40 - 145
Dibromomethane	ND		43.9	57.2		ug/Kg		130	65 - 140
Bromochloromethane	ND		43.9	51.9		ug/Kg		118	65 - 145
Chloroethane	ND		43.9	50.0		ug/Kg		114	60 - 150
Vinyl chloride	ND		43.9	48.2		ug/Kg		110	55 - 140
Methylene Chloride	ND		43.9	46.7		ug/Kg		106	55 - 145
Carbon disulfide	ND		43.9	50.2		ug/Kg		114	40 - 140
Bromoform	ND		43.9	45.6		ug/Kg		104	50 - 145
Bromodichloromethane	ND		43.9	55.9		ug/Kg		127	65 - 145
1,1-Dichloroethane	ND		43.9	48.9		ug/Kg		111	65 - 135
1,1-Dichloroethene	ND		43.9	45.9		ug/Kg		105	65 - 135
Trichlorofluoromethane	ND		43.9	54.4		ug/Kg		124	55 - 155
Dichlorodifluoromethane	ND		43.9	46.1		ug/Kg		105	30 - 160

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-27446-G-4-B MS

Matrix: Solid

Analysis Batch: 62141

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 61479

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2-Dichloropropane	ND		43.9	48.5		ug/Kg		110	65 - 130
2-Butanone (MEK)	ND		43.9	59.6		ug/Kg		136	25 - 170
1,1,2-Trichloroethane	ND		43.9	54.7		ug/Kg		124	65 - 140
Trichloroethene	ND		43.9	48.9		ug/Kg		111	65 - 140
1,1,1,2-Tetrachloroethane	ND		43.9	49.8		ug/Kg		113	40 - 160
1,2,3-Trichlorobenzene	ND		43.9	41.3		ug/Kg		94	45 - 145
Hexachlorobutadiene	ND		43.9	50.6		ug/Kg		115	50 - 145
Naphthalene	ND		43.9	43.7		ug/Kg		99	40 - 150
o-Xylene	ND		43.9	49.9		ug/Kg		114	65 - 130
2-Chlorotoluene	ND		43.9	45.5		ug/Kg		104	60 - 135
1,2-Dichlorobenzene	ND		43.9	45.9		ug/Kg		105	70 - 130
1,2,4-Trimethylbenzene	ND		43.9	48.8		ug/Kg		111	65 - 140
1,2-Dibromo-3-Chloropropane	ND		43.9	57.0		ug/Kg		130	40 - 150
1,2,3-Trichloropropane	ND		43.9	50.4		ug/Kg		115	50 - 150
tert-Butylbenzene	ND		43.9	46.7		ug/Kg		106	60 - 140
Isopropylbenzene	ND		43.9	47.9		ug/Kg		109	70 - 145
p-Isopropyltoluene	ND		43.9	46.2		ug/Kg		105	60 - 140

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	111		80 - 120
4-Bromofluorobenzene (Surr)	111		80 - 120
Dibromofluoromethane (Surr)	117		80 - 125

Lab Sample ID: 440-27446-H-4-C MSD

Matrix: Solid

Analysis Batch: 62141

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 61479

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Ethylbenzene	ND		52.0	56.1		ug/Kg		108	70 - 135	15	25
Styrene	ND		52.0	61.9		ug/Kg		119	70 - 140	14	25
cis-1,3-Dichloropropene	ND	*	52.0	64.1		ug/Kg		123	70 - 135	7	25
trans-1,3-Dichloropropene	ND		52.0	63.4		ug/Kg		122	60 - 145	9	25
N-Propylbenzene	ND		52.0	55.6		ug/Kg		107	65 - 140	17	25
n-Butylbenzene	ND		52.0	59.8		ug/Kg		115	55 - 145	16	30
4-Chlorotoluene	ND		52.0	55.0		ug/Kg		106	65 - 135	16	25
1,4-Dichlorobenzene	ND		52.0	54.3		ug/Kg		105	70 - 130	17	25
1,2-Dibromoethane (EDB)	ND		52.0	58.7		ug/Kg		113	65 - 140	6	25
1,2-Dichloroethane	ND		52.0	58.2		ug/Kg		112	60 - 150	5	25
4-Methyl-2-pentanone (MIBK)	ND		52.0	60.5		ug/Kg		116	40 - 155	0	40
1,3,5-Trimethylbenzene	ND		52.0	56.1		ug/Kg		108	65 - 135	17	25
Bromobenzene	ND		52.0	51.9		ug/Kg		100	65 - 140	15	25
Toluene	ND		52.0	55.0		ug/Kg		106	70 - 130	12	20
Chlorobenzene	ND		52.0	54.5		ug/Kg		105	70 - 130	14	25
1,2,4-Trichlorobenzene	ND		52.0	54.0		ug/Kg		104	50 - 140	22	30
Dibromochloromethane	ND		52.0	60.5		ug/Kg		116	60 - 145	12	25
Tetrachloroethene	ND		52.0	56.1		ug/Kg		108	65 - 135	12	25
sec-Butylbenzene	ND		52.0	55.7		ug/Kg		107	60 - 135	15	25
m,p-Xylene	ND		104	116		ug/Kg		112	70 - 130	15	25

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-27446-H-4-C MSD

Matrix: Solid

Analysis Batch: 62141

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 61479

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits			
1,3-Dichloropropane	ND		52.0	58.3		ug/Kg		112	65 - 140	12	25	
cis-1,2-Dichloroethene	ND		52.0	58.7		ug/Kg		113	65 - 135	10	25	
trans-1,2-Dichloroethene	ND		52.0	55.0		ug/Kg		106	70 - 135	10	25	
Methyl-t-Butyl Ether (MTBE)	ND		52.0	61.3		ug/Kg		118	55 - 155	6	35	
1,3-Dichlorobenzene	ND		52.0	56.5		ug/Kg		109	70 - 130	20	25	
Carbon tetrachloride	ND		52.0	57.8		ug/Kg		111	60 - 145	10	25	
1,1-Dichloropropene	ND		52.0	51.3		ug/Kg		99	65 - 135	12	20	
2-Hexanone	ND		52.0	55.8		ug/Kg		107	35 - 160	3	40	
2,2-Dichloropropane	ND		52.0	56.7		ug/Kg		109	65 - 150	7	25	
1,1,1,2-Tetrachloroethane	ND		52.0	57.1		ug/Kg		110	65 - 145	11	20	
Acetone	ND		52.0	64.2		ug/Kg		124	20 - 145	6	40	
Chloroform	ND		52.0	54.2		ug/Kg		104	65 - 135	7	20	
Benzene	ND		52.0	51.3		ug/Kg		99	65 - 130	9	20	
1,1,1-Trichloroethane	ND		52.0	54.1		ug/Kg		104	65 - 145	7	20	
Bromomethane	ND		52.0	57.3		ug/Kg		110	60 - 155	9	25	
Chloromethane	ND		52.0	47.7		ug/Kg		92	40 - 145	6	25	
Dibromomethane	ND		52.0	60.5		ug/Kg		116	65 - 140	6	25	
Bromochloromethane	ND		52.0	57.4		ug/Kg		110	65 - 145	10	25	
Chloroethane	ND		52.0	55.7		ug/Kg		107	60 - 150	11	25	
Vinyl chloride	ND		52.0	54.2		ug/Kg		104	55 - 140	12	30	
Methylene Chloride	ND		52.0	51.6		ug/Kg		99	55 - 145	10	25	
Carbon disulfide	ND		52.0	54.3		ug/Kg		104	40 - 140	8	20	
Bromoform	ND		52.0	52.9		ug/Kg		102	50 - 145	15	30	
Bromodichloromethane	ND		52.0	61.1		ug/Kg		118	65 - 145	9	20	
1,1-Dichloroethane	ND		52.0	54.2		ug/Kg		104	65 - 135	10	25	
1,1-Dichloroethene	ND		52.0	51.5		ug/Kg		99	65 - 135	11	25	
Trichlorofluoromethane	ND		52.0	60.1		ug/Kg		116	55 - 155	10	25	
Dichlorodifluoromethane	ND		52.0	51.1		ug/Kg		98	30 - 160	10	35	
1,2-Dichloropropane	ND		52.0	52.8		ug/Kg		102	65 - 130	8	20	
2-Butanone (MEK)	ND		52.0	57.3		ug/Kg		110	25 - 170	4	40	
1,1,2-Trichloroethane	ND		52.0	58.7		ug/Kg		113	65 - 140	7	30	
Trichloroethene	ND		52.0	54.5		ug/Kg		105	65 - 140	11	25	
1,1,1,2-Tetrachloroethane	ND		52.0	53.8		ug/Kg		104	40 - 160	8	30	
1,2,3-Trichlorobenzene	ND		52.0	49.4		ug/Kg		95	45 - 145	18	30	
Hexachlorobutadiene	ND		52.0	65.3		ug/Kg		126	50 - 145	25	35	
Naphthalene	ND		52.0	51.1		ug/Kg		98	40 - 150	16	40	
o-Xylene	ND		52.0	57.4		ug/Kg		110	65 - 130	14	25	
2-Chlorotoluene	ND		52.0	53.0		ug/Kg		102	60 - 135	15	25	
1,2-Dichlorobenzene	ND		52.0	54.5		ug/Kg		105	70 - 130	17	25	
1,2,4-Trimethylbenzene	ND		52.0	56.9		ug/Kg		109	65 - 140	15	25	
1,2-Dibromo-3-Chloropropane	ND		52.0	58.8		ug/Kg		113	40 - 150	3	30	
1,2,3-Trichloropropane	ND		52.0	54.3		ug/Kg		105	50 - 150	7	30	
tert-Butylbenzene	ND		52.0	54.2		ug/Kg		104	60 - 140	15	25	
Isopropylbenzene	ND		52.0	56.6		ug/Kg		109	70 - 145	17	25	
p-Isopropyltoluene	ND		52.0	55.3		ug/Kg		106	60 - 140	18	25	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	106		80 - 120

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-27446-H-4-C MSD

Matrix: Solid

Analysis Batch: 62141

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 61479

<i>Surrogate</i>	<i>MSD %Recovery</i>	<i>MSD Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene (Surr)	108		80 - 120
Dibromofluoromethane (Surr)	112		80 - 125

Lab Sample ID: MB 440-62141/3

Matrix: Solid

Analysis Batch: 62141

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ethylbenzene	ND		2.0	0.50	ug/Kg			10/26/12 18:46	1
Styrene	ND		2.0	0.58	ug/Kg			10/26/12 18:46	1
cis-1,3-Dichloropropene	ND		2.0	0.44	ug/Kg			10/26/12 18:46	1
trans-1,3-Dichloropropene	ND		2.0	0.61	ug/Kg			10/26/12 18:46	1
N-Propylbenzene	ND		2.0	0.61	ug/Kg			10/26/12 18:46	1
n-Butylbenzene	ND		5.0	0.72	ug/Kg			10/26/12 18:46	1
4-Chlorotoluene	ND		5.0	0.74	ug/Kg			10/26/12 18:46	1
1,4-Dichlorobenzene	ND		2.0	0.94	ug/Kg			10/26/12 18:46	1
1,2-Dibromoethane (EDB)	ND		2.0	0.80	ug/Kg			10/26/12 18:46	1
1,2-Dichloroethane	ND		2.0	0.80	ug/Kg			10/26/12 18:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	4.5	ug/Kg			10/26/12 18:46	1
1,3,5-Trimethylbenzene	ND		2.0	0.63	ug/Kg			10/26/12 18:46	1
Bromobenzene	ND		5.0	0.84	ug/Kg			10/26/12 18:46	1
Toluene	ND		2.0	0.50	ug/Kg			10/26/12 18:46	1
Chlorobenzene	ND		2.0	0.52	ug/Kg			10/26/12 18:46	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			10/26/12 18:46	1
Dibromochloromethane	ND		2.0	0.70	ug/Kg			10/26/12 18:46	1
Tetrachloroethene	ND		2.0	0.49	ug/Kg			10/26/12 18:46	1
sec-Butylbenzene	ND		5.0	0.67	ug/Kg			10/26/12 18:46	1
m,p-Xylene	ND		2.0	0.80	ug/Kg			10/26/12 18:46	1
1,3-Dichloropropane	ND		2.0	0.63	ug/Kg			10/26/12 18:46	1
cis-1,2-Dichloroethene	ND		2.0	0.83	ug/Kg			10/26/12 18:46	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/Kg			10/26/12 18:46	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	1.0	ug/Kg			10/26/12 18:46	1
1,3-Dichlorobenzene	ND		2.0	0.84	ug/Kg			10/26/12 18:46	1
Carbon tetrachloride	ND		5.0	0.50	ug/Kg			10/26/12 18:46	1
1,1-Dichloropropene	ND		2.0	0.40	ug/Kg			10/26/12 18:46	1
2-Hexanone	ND		25	9.1	ug/Kg			10/26/12 18:46	1
2,2-Dichloropropane	ND		2.0	0.60	ug/Kg			10/26/12 18:46	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.57	ug/Kg			10/26/12 18:46	1
Acetone	ND		10	8.0	ug/Kg			10/26/12 18:46	1
Chloroform	ND		2.0	0.50	ug/Kg			10/26/12 18:46	1
Benzene	ND		2.0	0.50	ug/Kg			10/26/12 18:46	1
1,1,1-Trichloroethane	ND		2.0	0.70	ug/Kg			10/26/12 18:46	1
Bromomethane	ND		5.0	0.92	ug/Kg			10/26/12 18:46	1
Chloromethane	ND		5.0	1.0	ug/Kg			10/26/12 18:46	1
Dibromomethane	ND		2.0	0.90	ug/Kg			10/26/12 18:46	1
Bromochloromethane	ND		5.0	0.90	ug/Kg			10/26/12 18:46	1
Chloroethane	ND		5.0	1.5	ug/Kg			10/26/12 18:46	1
Vinyl chloride	ND		5.0	0.91	ug/Kg			10/26/12 18:46	1

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-62141/3

Matrix: Solid

Analysis Batch: 62141

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		20	6.5	ug/Kg			10/26/12 18:46	1
Carbon disulfide	ND		5.0	0.97	ug/Kg			10/26/12 18:46	1
Bromoform	ND		5.0	0.80	ug/Kg			10/26/12 18:46	1
Bromodichloromethane	ND		2.0	0.50	ug/Kg			10/26/12 18:46	1
1,1-Dichloroethane	ND		2.0	0.50	ug/Kg			10/26/12 18:46	1
1,1-Dichloroethene	ND		5.0	0.60	ug/Kg			10/26/12 18:46	1
Trichlorofluoromethane	ND		5.0	0.54	ug/Kg			10/26/12 18:46	1
Dichlorodifluoromethane	ND		5.0	1.5	ug/Kg			10/26/12 18:46	1
1,2-Dichloropropane	ND		2.0	0.80	ug/Kg			10/26/12 18:46	1
2-Butanone (MEK)	ND		10	6.0	ug/Kg			10/26/12 18:46	1
1,1,2-Trichloroethane	ND		2.0	0.87	ug/Kg			10/26/12 18:46	1
Trichloroethene	ND		2.0	0.50	ug/Kg			10/26/12 18:46	1
1,1,1,2-Tetrachloroethane	ND		2.0	0.86	ug/Kg			10/26/12 18:46	1
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/Kg			10/26/12 18:46	1
Hexachlorobutadiene	ND		5.0	0.80	ug/Kg			10/26/12 18:46	1
Naphthalene	ND		5.0	1.1	ug/Kg			10/26/12 18:46	1
o-Xylene	ND		2.0	0.50	ug/Kg			10/26/12 18:46	1
2-Chlorotoluene	ND		5.0	0.87	ug/Kg			10/26/12 18:46	1
1,2-Dichlorobenzene	ND		2.0	0.95	ug/Kg			10/26/12 18:46	1
1,2,4-Trimethylbenzene	ND		2.0	0.78	ug/Kg			10/26/12 18:46	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/Kg			10/26/12 18:46	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			10/26/12 18:46	1
tert-Butylbenzene	ND		5.0	0.62	ug/Kg			10/26/12 18:46	1
Isopropylbenzene	ND		2.0	0.54	ug/Kg			10/26/12 18:46	1
p-Isopropyltoluene	ND		2.0	0.72	ug/Kg			10/26/12 18:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	111		80 - 120		10/26/12 18:46	1
4-Bromofluorobenzene (Surr)	104		80 - 120		10/26/12 18:46	1
Dibromofluoromethane (Surr)	112		80 - 125		10/26/12 18:46	1

Lab Sample ID: LCS 440-62141/17

Matrix: Solid

Analysis Batch: 62141

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	50.0	54.4		ug/Kg		109	70 - 125
Styrene	50.0	58.7		ug/Kg		117	75 - 130
cis-1,3-Dichloropropene	50.0	64.1	*	ug/Kg		128	75 - 125
trans-1,3-Dichloropropene	50.0	61.8		ug/Kg		124	70 - 135
N-Propylbenzene	50.0	54.0		ug/Kg		108	70 - 130
n-Butylbenzene	50.0	58.9		ug/Kg		118	70 - 130
4-Chlorotoluene	50.0	54.8		ug/Kg		110	75 - 125
1,4-Dichlorobenzene	50.0	52.5		ug/Kg		105	75 - 120
1,2-Dibromoethane (EDB)	50.0	54.8		ug/Kg		110	70 - 130
1,2-Dichloroethane	50.0	56.6		ug/Kg		113	60 - 140
4-Methyl-2-pentanone (MIBK)	50.0	57.8		ug/Kg		116	40 - 145
1,3,5-Trimethylbenzene	50.0	54.1		ug/Kg		108	70 - 125

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-62141/17

Matrix: Solid

Analysis Batch: 62141

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	49.9		ug/Kg		100	75 - 120
Toluene	50.0	53.4		ug/Kg		107	70 - 125
Chlorobenzene	50.0	53.8		ug/Kg		108	75 - 120
1,2,4-Trichlorobenzene	50.0	51.2		ug/Kg		102	70 - 135
Dibromochloromethane	50.0	55.3		ug/Kg		111	65 - 140
Tetrachloroethene	50.0	51.4		ug/Kg		103	70 - 125
sec-Butylbenzene	50.0	54.3		ug/Kg		109	70 - 125
m,p-Xylene	100	110		ug/Kg		110	70 - 125
1,3-Dichloropropane	50.0	54.1		ug/Kg		108	70 - 125
cis-1,2-Dichloroethene	50.0	57.5		ug/Kg		115	70 - 125
trans-1,2-Dichloroethene	50.0	52.5		ug/Kg		105	70 - 125
Methyl-t-Butyl Ether (MTBE)	50.0	61.0		ug/Kg		122	60 - 140
1,3-Dichlorobenzene	50.0	52.9		ug/Kg		106	75 - 125
Carbon tetrachloride	50.0	55.0		ug/Kg		110	65 - 140
1,1-Dichloropropene	50.0	50.6		ug/Kg		101	70 - 130
2-Hexanone	50.0	51.0		ug/Kg		102	40 - 150
2,2-Dichloropropane	50.0	56.8		ug/Kg		114	60 - 145
1,1,1,2-Tetrachloroethane	50.0	55.6		ug/Kg		111	70 - 130
Acetone	50.0	58.6		ug/Kg		117	25 - 145
Chloroform	50.0	53.6		ug/Kg		107	70 - 130
Benzene	50.0	50.7		ug/Kg		101	65 - 120
1,1,1-Trichloroethane	50.0	54.2		ug/Kg		108	65 - 135
Bromomethane	50.0	56.2		ug/Kg		112	60 - 145
Chloromethane	50.0	48.1		ug/Kg		96	45 - 145
Dibromomethane	50.0	56.7		ug/Kg		113	70 - 130
Bromochloromethane	50.0	55.3		ug/Kg		111	70 - 135
Chloroethane	50.0	51.9		ug/Kg		104	60 - 140
Vinyl chloride	50.0	54.7		ug/Kg		109	55 - 135
Methylene Chloride	50.0	48.4		ug/Kg		97	55 - 135
Carbon disulfide	50.0	53.6		ug/Kg		107	50 - 130
Bromoform	50.0	48.0		ug/Kg		96	55 - 135
Bromodichloromethane	50.0	59.3		ug/Kg		119	70 - 135
1,1-Dichloroethane	50.0	53.9		ug/Kg		108	70 - 130
1,1-Dichloroethene	50.0	50.4		ug/Kg		101	70 - 125
Trichlorofluoromethane	50.0	56.8		ug/Kg		114	60 - 145
Dichlorodifluoromethane	50.0	49.4		ug/Kg		99	35 - 160
1,2-Dichloropropane	50.0	53.6		ug/Kg		107	70 - 130
2-Butanone (MEK)	50.0	58.4		ug/Kg		117	40 - 145
1,1,1,2-Trichloroethane	50.0	56.9		ug/Kg		114	65 - 135
Trichloroethene	50.0	53.8		ug/Kg		108	70 - 125
1,1,1,2-Tetrachloroethane	50.0	50.3		ug/Kg		101	55 - 140
1,2,3-Trichlorobenzene	50.0	46.9		ug/Kg		94	60 - 130
Hexachlorobutadiene	50.0	64.8		ug/Kg		130	60 - 135
Naphthalene	50.0	49.0		ug/Kg		98	55 - 135
o-Xylene	50.0	55.1		ug/Kg		110	70 - 125
2-Chlorotoluene	50.0	51.9		ug/Kg		104	70 - 125
1,2-Dichlorobenzene	50.0	51.6		ug/Kg		103	75 - 120
1,2,4-Trimethylbenzene	50.0	54.2		ug/Kg		108	70 - 125

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-62141/17
Matrix: Solid
Analysis Batch: 62141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	50.0	54.0		ug/Kg		108	50 - 135
1,2,3-Trichloropropane	50.0	49.1		ug/Kg		98	60 - 135
tert-Butylbenzene	50.0	53.4		ug/Kg		107	70 - 125
Isopropylbenzene	50.0	55.8		ug/Kg		112	75 - 130
p-Isopropyltoluene	50.0	53.5		ug/Kg		107	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	108		80 - 120
4-Bromofluorobenzene (Surr)	109		80 - 120
Dibromofluoromethane (Surr)	111		80 - 125

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-62374/1-A
Matrix: Solid
Analysis Batch: 62486

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62374

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		10/28/12 14:44	10/29/12 14:21	1
Aroclor 1221	ND		50	12	ug/Kg		10/28/12 14:44	10/29/12 14:21	1
Aroclor 1232	ND		50	12	ug/Kg		10/28/12 14:44	10/29/12 14:21	1
Aroclor 1242	ND		50	12	ug/Kg		10/28/12 14:44	10/29/12 14:21	1
Aroclor 1248	ND		50	12	ug/Kg		10/28/12 14:44	10/29/12 14:21	1
Aroclor 1254	ND		50	12	ug/Kg		10/28/12 14:44	10/29/12 14:21	1
Aroclor 1260	ND		50	12	ug/Kg		10/28/12 14:44	10/29/12 14:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	83		45 - 120	10/28/12 14:44	10/29/12 14:21	1

Lab Sample ID: LCS 440-62374/5-A
Matrix: Solid
Analysis Batch: 62486

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62374

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	267	215		ug/Kg		81	65 - 115
Aroclor 1260	267	239		ug/Kg		90	65 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	84		45 - 120

Lab Sample ID: 440-27446-F-4-A MS
Matrix: Solid
Analysis Batch: 62486

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 62374

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		266	220		ug/Kg		83	50 - 120
Aroclor 1260	ND		266	226		ug/Kg		85	50 - 125

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 440-27446-F-4-A MS
Matrix: Solid
Analysis Batch: 62486

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 62374

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	78		45 - 120

Lab Sample ID: 440-27446-F-4-B MSD
Matrix: Solid
Analysis Batch: 62486

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 62374

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
Aroclor 1016	ND		266	220		ug/Kg		83	50 - 120	0	30	
Aroclor 1260	ND		266	231		ug/Kg		87	50 - 125	2	30	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	80		45 - 120

Lab Sample ID: MB 440-63418/1-A
Matrix: Solid
Analysis Batch: 63428

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 63418

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aroclor 1016	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 18:19	1
Aroclor 1221	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 18:19	1
Aroclor 1232	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 18:19	1
Aroclor 1242	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 18:19	1
Aroclor 1248	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 18:19	1
Aroclor 1254	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 18:19	1
Aroclor 1260	ND		50	12	ug/Kg		11/01/12 09:29	11/01/12 18:19	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl (Surr)	97		45 - 120	11/01/12 09:29	11/01/12 18:19	1

Lab Sample ID: LCS 440-63418/2-A
Matrix: Solid
Analysis Batch: 63428

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 63418

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	RPD
Aroclor 1016	267	217		ug/Kg		81	65 - 115	
Aroclor 1260	267	230		ug/Kg		86	65 - 115	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	92		45 - 120

Lab Sample ID: 440-27446-F-15-A MS
Matrix: Solid
Analysis Batch: 63428

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 63418

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec.	
				Result	Qualifier				Limits	RPD
Aroclor 1016	ND		267	210		ug/Kg		79	50 - 120	
Aroclor 1260	ND		267	233		ug/Kg		87	50 - 125	

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 440-27446-F-15-A MS
Matrix: Solid
Analysis Batch: 63428

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 63418

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	80		45 - 120

Lab Sample ID: 440-27446-F-15-B MSD
Matrix: Solid
Analysis Batch: 63428

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 63418

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
				Result	Qualifier						
Aroclor 1016	ND		267	208		ug/Kg		78	50 - 120	1	30
Aroclor 1260	ND		267	232		ug/Kg		87	50 - 125	0	30

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	79		45 - 120

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-62114/1-A ^5
Matrix: Solid
Analysis Batch: 62775

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62114

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	ND		9.8	1.1	mg/Kg		10/26/12 14:32	10/29/12 23:36	5
Arsenic	ND		2.0	0.79	mg/Kg		10/26/12 14:32	10/29/12 23:36	5
Barium	ND		0.98	0.78	mg/Kg		10/26/12 14:32	10/29/12 23:36	5
Beryllium	ND		0.49	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:36	5
Cadmium	ND		0.49	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:36	5
Chromium	ND		0.98	0.29	mg/Kg		10/26/12 14:32	10/29/12 23:36	5
Cobalt	ND		0.98	0.29	mg/Kg		10/26/12 14:32	10/29/12 23:36	5
Copper	ND		2.0	0.37	mg/Kg		10/26/12 14:32	10/29/12 23:36	5
Lead	ND		2.0	0.49	mg/Kg		10/26/12 14:32	10/29/12 23:36	5
Molybdenum	ND		2.0	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:36	5
Nickel	ND		2.0	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:36	5
Selenium	ND		2.0	0.98	mg/Kg		10/26/12 14:32	10/29/12 23:36	5
Thallium	ND		9.8	0.78	mg/Kg		10/26/12 14:32	10/29/12 23:36	5
Vanadium	ND		0.98	0.29	mg/Kg		10/26/12 14:32	10/29/12 23:36	5
Zinc	ND		4.9	0.49	mg/Kg		10/26/12 14:32	10/29/12 23:36	5

Lab Sample ID: LCS 440-62114/2-A ^5
Matrix: Solid
Analysis Batch: 62775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62114

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Antimony	49.3	46.4		mg/Kg		94	80 - 120
Arsenic	49.3	46.2		mg/Kg		94	80 - 120
Barium	49.3	46.9		mg/Kg		95	80 - 120
Beryllium	49.3	45.6		mg/Kg		93	80 - 120
Cadmium	49.3	46.2		mg/Kg		94	80 - 120
Chromium	49.3	47.3		mg/Kg		96	80 - 120
Cobalt	49.3	51.7		mg/Kg		105	80 - 120

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 440-62114/2-A ^5
Matrix: Solid
Analysis Batch: 62775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62114

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	49.3	46.7		mg/Kg		95	80 - 120
Lead	49.3	46.1		mg/Kg		94	80 - 120
Molybdenum	49.3	43.1		mg/Kg		87	80 - 120
Nickel	49.3	46.9		mg/Kg		95	80 - 120
Selenium	49.3	42.4		mg/Kg		86	80 - 120
Thallium	49.3	45.3		mg/Kg		92	80 - 120
Zinc	49.3	44.7		mg/Kg		91	80 - 120

Lab Sample ID: 440-27510-1 MS
Matrix: Solid
Analysis Batch: 62775

Client Sample ID: 125727_T3S1
Prep Type: Total/NA
Prep Batch: 62114

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.1	J	51.0	48.1		mg/Kg		92	75 - 125
Arsenic	11		51.0	57.6		mg/Kg		92	75 - 125
Barium	59		51.0	109		mg/Kg		98	75 - 125
Beryllium	0.49	J	51.0	49.7		mg/Kg		96	75 - 125
Cadmium	0.20	J	51.0	49.2		mg/Kg		96	75 - 125
Chromium	15		51.0	66.2		mg/Kg		101	75 - 125
Cobalt	4.4		51.0	51.7		mg/Kg		93	75 - 125
Copper	8.4		51.0	59.7		mg/Kg		101	75 - 125
Lead	4.0		51.0	51.1		mg/Kg		92	75 - 125
Molybdenum	1.1	J	51.0	46.1		mg/Kg		88	75 - 125
Nickel	11		51.0	57.2		mg/Kg		91	75 - 125
Selenium	ND		51.0	42.5		mg/Kg		83	75 - 125
Thallium	ND		51.0	44.8		mg/Kg		88	75 - 125
Zinc	54		51.0	90.5	F	mg/Kg		72	75 - 125

Lab Sample ID: 440-27510-1 MSD
Matrix: Solid
Analysis Batch: 62775

Client Sample ID: 125727_T3S1
Prep Type: Total/NA
Prep Batch: 62114

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.1	J	49.5	48.8		mg/Kg		96	75 - 125	1	20
Arsenic	11		49.5	59.4		mg/Kg		98	75 - 125	3	20
Barium	59		49.5	118		mg/Kg		119	75 - 125	8	20
Beryllium	0.49	J	49.5	51.8		mg/Kg		104	75 - 125	4	20
Cadmium	0.20	J	49.5	55.5		mg/Kg		112	75 - 125	12	20
Chromium	15		49.5	66.7		mg/Kg		105	75 - 125	1	20
Cobalt	4.4		49.5	57.6		mg/Kg		107	75 - 125	11	20
Copper	8.4		49.5	60.5		mg/Kg		105	75 - 125	1	20
Lead	4.0		49.5	52.7		mg/Kg		98	75 - 125	3	20
Molybdenum	1.1	J	49.5	47.6		mg/Kg		94	75 - 125	3	20
Nickel	11		49.5	63.8		mg/Kg		108	75 - 125	11	20
Selenium	ND		49.5	45.0		mg/Kg		91	75 - 125	6	20
Thallium	ND		49.5	45.3		mg/Kg		91	75 - 125	1	20
Zinc	54		49.5	104		mg/Kg		103	75 - 125	14	20

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 440-62905/1-A ^5

Matrix: Solid

Analysis Batch: 63094

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62905

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.0	0.80	mg/Kg		10/30/12 14:58	10/30/12 21:17	5

Lab Sample ID: LCS 440-62905/2-A ^5

Matrix: Solid

Analysis Batch: 63094

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62905

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	24.9	22.1		mg/Kg		89	80 - 120

Lab Sample ID: 440-27510-1 MS

Matrix: Solid

Analysis Batch: 63094

Client Sample ID: 125727_T3S1

Prep Type: Total/NA

Prep Batch: 62905

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	ND		25.0	25.0		mg/Kg		100	75 - 125

Lab Sample ID: 440-27510-1 MSD

Matrix: Solid

Analysis Batch: 63094

Client Sample ID: 125727_T3S1

Prep Type: Total/NA

Prep Batch: 62905

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	ND		25.0	23.9		mg/Kg		96	75 - 125	5	20

Lab Sample ID: MB 440-62996/1-A

Matrix: Solid

Analysis Batch: 63562

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62996

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	1.1	mg/Kg		10/30/12 19:04	11/01/12 14:06	5
Arsenic	ND		2.0	0.80	mg/Kg		10/30/12 19:04	11/01/12 14:06	5
Barium	ND		0.99	0.79	mg/Kg		10/30/12 19:04	11/01/12 14:06	5
Beryllium	ND		0.50	0.20	mg/Kg		10/30/12 19:04	11/01/12 14:06	5
Cadmium	ND		0.50	0.20	mg/Kg		10/30/12 19:04	11/01/12 14:06	5
Chromium	ND		0.99	0.30	mg/Kg		10/30/12 19:04	11/01/12 14:06	5
Cobalt	ND		0.99	0.30	mg/Kg		10/30/12 19:04	11/01/12 14:06	5
Copper	ND		2.0	0.38	mg/Kg		10/30/12 19:04	11/01/12 14:06	5
Lead	1.05	J	2.0	0.50	mg/Kg		10/30/12 19:04	11/01/12 14:06	5
Molybdenum	ND		2.0	0.20	mg/Kg		10/30/12 19:04	11/01/12 14:06	5
Nickel	ND		2.0	0.20	mg/Kg		10/30/12 19:04	11/01/12 14:06	5
Selenium	1.54	J	2.0	0.99	mg/Kg		10/30/12 19:04	11/01/12 14:06	5
Thallium	ND		9.9	0.79	mg/Kg		10/30/12 19:04	11/01/12 14:06	5
Vanadium	ND		0.99	0.30	mg/Kg		10/30/12 19:04	11/01/12 14:06	5
Zinc	1.14	J	5.0	0.50	mg/Kg		10/30/12 19:04	11/01/12 14:06	5
Silver	ND		0.99	0.79	mg/Kg		10/30/12 19:04	11/01/12 14:06	5

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 440-62996/2-A
Matrix: Solid
Analysis Batch: 63562

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62996

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	49.8	51.6		mg/Kg		104	80 - 120
Arsenic	49.8	50.0		mg/Kg		101	80 - 120
Barium	49.8	50.0		mg/Kg		100	80 - 120
Beryllium	49.8	50.4		mg/Kg		101	80 - 120
Cadmium	49.8	50.5		mg/Kg		102	80 - 120
Chromium	49.8	49.5		mg/Kg		99	80 - 120
Cobalt	49.8	51.4		mg/Kg		103	80 - 120
Copper	49.8	48.7		mg/Kg		98	80 - 120
Lead	49.8	51.2		mg/Kg		103	80 - 120
Molybdenum	49.8	51.5		mg/Kg		103	80 - 120
Nickel	49.8	50.2		mg/Kg		101	80 - 120
Selenium	49.8	48.8		mg/Kg		98	80 - 120
Thallium	49.8	50.4		mg/Kg		101	80 - 120
Zinc	49.8	50.4		mg/Kg		101	80 - 120
Silver	24.9	23.2		mg/Kg		93	80 - 120

Lab Sample ID: 440-27510-2 MS
Matrix: Solid
Analysis Batch: 63562

Client Sample ID: 125727_T2S2
Prep Type: Total/NA
Prep Batch: 62996

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	2.0	J	49.8	45.2		mg/Kg		87	75 - 125
Arsenic	10		49.8	54.1		mg/Kg		88	75 - 125
Barium	68		49.8	116		mg/Kg		95	75 - 125
Beryllium	0.56		49.8	47.1		mg/Kg		94	75 - 125
Cadmium	ND		49.8	49.9		mg/Kg		100	75 - 125
Chromium	17		49.8	62.7		mg/Kg		93	75 - 125
Cobalt	4.4		49.8	53.5		mg/Kg		99	75 - 125
Copper	9.1		49.8	54.5		mg/Kg		91	75 - 125
Lead	4.9	B	49.8	49.4		mg/Kg		89	75 - 125
Molybdenum	1.5	J	49.8	46.6		mg/Kg		91	75 - 125
Nickel	12		49.8	60.7		mg/Kg		97	75 - 125
Selenium	2.6	B	49.8	46.3		mg/Kg		88	75 - 125
Thallium	ND		49.8	43.0		mg/Kg		86	75 - 125
Zinc	47	B	49.8	99.5		mg/Kg		105	75 - 125
Silver	ND		24.9	21.4		mg/Kg		86	75 - 125

Lab Sample ID: 440-27510-2 MSD
Matrix: Solid
Analysis Batch: 63562

Client Sample ID: 125727_T2S2
Prep Type: Total/NA
Prep Batch: 62996

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	2.0	J	49.0	42.5		mg/Kg		83	75 - 125	6	20
Arsenic	10		49.0	48.8		mg/Kg		78	75 - 125	10	20
Barium	68		49.0	107		mg/Kg		79	75 - 125	8	20
Beryllium	0.56		49.0	43.9		mg/Kg		88	75 - 125	7	20
Cadmium	ND		49.0	46.1		mg/Kg		94	75 - 125	8	20
Chromium	17		49.0	56.2		mg/Kg		81	75 - 125	11	20

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-27510-2 MSD

Matrix: Solid

Analysis Batch: 63562

Client Sample ID: 125727_T2S2

Prep Type: Total/NA

Prep Batch: 62996

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Cobalt	4.4		49.0	49.6		mg/Kg		92	75 - 125	8	20
Copper	9.1		49.0	50.5		mg/Kg		84	75 - 125	8	20
Lead	4.9	B	49.0	45.7		mg/Kg		83	75 - 125	8	20
Molybdenum	1.5	J	49.0	43.2		mg/Kg		85	75 - 125	8	20
Nickel	12		49.0	55.3		mg/Kg		88	75 - 125	9	20
Selenium	2.6	B	49.0	43.8		mg/Kg		84	75 - 125	6	20
Thallium	ND		49.0	39.9		mg/Kg		81	75 - 125	7	20
Zinc	47	B	49.0	91.1		mg/Kg		89	75 - 125	9	20
Silver	ND		24.5	19.8		mg/Kg		81	75 - 125	8	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 440-62168/1-A

Matrix: Solid

Analysis Batch: 62726

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62168

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.020	0.012	mg/Kg		10/28/12 15:45	10/29/12 19:12	1

Lab Sample ID: LCS 440-62168/2-A

Matrix: Solid

Analysis Batch: 62726

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62168

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Mercury	0.800	0.728		mg/Kg		91	80 - 120

Lab Sample ID: 440-27496-A-1-F MS

Matrix: Solid

Analysis Batch: 62726

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 62168

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
Mercury	0.61		0.816	1.12	F	mg/Kg		63	70 - 130

Lab Sample ID: 440-27496-A-1-G MSD

Matrix: Solid

Analysis Batch: 62726

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 62168

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Mercury	0.61		0.784	1.01	F	mg/Kg		51	70 - 130	10	20

Lab Sample ID: MB 440-63314/1-A

Matrix: Solid

Analysis Batch: 63894

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63314

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.020	0.012	mg/Kg		11/01/12 20:45	11/02/12 15:33	1

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 440-63314/2-A
Matrix: Solid
Analysis Batch: 63894

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 63314

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.800	0.748		mg/Kg		93	80 - 120

Lab Sample ID: 440-27446-E-4-H MS
Matrix: Solid
Analysis Batch: 63894

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 63314

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.018	J	0.784	0.845		mg/Kg		105	70 - 130

Lab Sample ID: 440-27446-E-4-I MSD
Matrix: Solid
Analysis Batch: 63894

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 63314

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.018	J	0.784	0.817		mg/Kg		102	70 - 130	3	20

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Lab Sample ID: F2K15000016B
Matrix: Solid
Analysis Batch: 2320016

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 2320016_P

Analyte	MB Result	MB Qualifier	Count Uncert. (2.000σ+/-)	Total Uncert. (2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-0.19	U	0.15	0.15	0.34	pCi/g	11/15/12 00:00	11/20/12 18:04	1

Lab Sample ID: F2K15000016C
Matrix: Solid
Analysis Batch: 2320016

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 2320016_P

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2.000σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Tritium	12.9	13.5		1.4	0.3	pCi/g	104	80 - 114

Lab Sample ID: F2J260436002S
Matrix: Solid
Analysis Batch: 2320016

Client Sample ID: 125727_T2S2 (440-27510-2)
Prep Type: Total
Prep Batch: 2320016_P

Analyte	Sample Result	Sample Qual	Spike Added	MS1 Result	MS1 Qual	Total Uncert. (2.000σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Tritium	0.03	U	12.8	13.9		1.5	0.3	pCi/g	108	78 - 122

Lab Sample ID: F2J260436001X
Matrix: Solid
Analysis Batch: 2320016

Client Sample ID: 125727_T3S1 (440-27510-1) DUP
Prep Type: Total
Prep Batch: 2320016_P

Analyte	Sample Result	Sample Qual	LR1 Result	LR1 Qual	Total Uncert. (2.000σ+/-)	MDC	Unit	RPD	RPD Limit
Tritium	0.04	U	0.11	U	0.21	0.36	pCi/g	94	40

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Lab Sample ID: F2K090000028B

Matrix: Solid

Analysis Batch: 2314028

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 2314028_P

Analyte	MB MB		Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2.000σ+/-)	Uncert. (2.000σ+/-)					
Uranium 234	0.027		0.022	0.022	0.022	pCi/g	11/09/12 00:00	11/13/12 20:20	1
Uranium 235/236	-0.0023	U	0.0033	0.0033	0.025	pCi/g	11/09/12 00:00	11/13/12 20:20	1
Uranium 238	0.005	U	0.011	0.011	0.022	pCi/g	11/09/12 00:00	11/13/12 20:20	1
Tracer	MB MB		Limits		Prepared	Analyzed	Dil Fac		
Uranium-232	%Yield	Qualifier	Limits						
Uranium-232	90		30 - 110		11/09/12 00:00	11/13/12 20:20	1		

Lab Sample ID: F2K090000028C

Matrix: Solid

Analysis Batch: 2314028

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 2314028_P

Analyte	Spike Added	LCS Result	LCS Qual	Total	MDC	Unit	%Rec	%Rec.
				Uncert. (2.000σ+/-)				Limits
Uranium 234	1.63	1.64		0.21	0.02	pCi/g	100	84 - 120
Uranium 238	1.70	1.76		0.22	0.01	pCi/g	104	82 - 122
Tracer	LCS LCS		Limits		Prepared	Analyzed	Dil Fac	
Uranium-232	%Yield	Qualifier	Limits					
Uranium-232	89		30 - 110					

Lab Sample ID: F2J260434001X

Matrix: Solid

Analysis Batch: 2314028

Client Sample ID: Duplicate

Prep Type: Total

Prep Batch: 2314028_P

Analyte	Sample	Sample	LR1	LR1	Total	MDC	Unit	RPD	Limit
	Result	Qual	Result	Qual	Uncert. (2.000σ+/-)				
Uranium 234	0.71		0.59		0.11	0.02	pCi/g	17	40
Uranium 235/236	0.021		0.022		0.022	0.015	pCi/g	4	
Uranium 238	0.83		0.70		0.13	0.02	pCi/g	17	40
Tracer	LR1 LR1		Limits		Prepared	Analyzed	Dil Fac		
Uranium-232	%Yield	Qualifier	Limits						
Uranium-232	76		30 - 110						

Lab Sample ID: F2K150000043B

Matrix: Solid

Analysis Batch: 2320043

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 2320043_P

Analyte	MB MB		Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2.000σ+/-)	Uncert. (2.000σ+/-)					
Uranium 234	-0.0020	U	0.0040	0.0041	0.037	pCi/g	11/15/12 00:00	11/19/12 16:41	1
Uranium 235/236	0.0	U	0.0050	0.0050	0.027	pCi/g	11/15/12 00:00	11/19/12 16:41	1
Uranium 238	0.008	U	0.016	0.016	0.022	pCi/g	11/15/12 00:00	11/19/12 16:41	1
Tracer	MB MB		Limits		Prepared	Analyzed	Dil Fac		
Uranium-232	%Yield	Qualifier	Limits						
Uranium-232	80		30 - 110		11/15/12 00:00	11/19/12 16:41	1		

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD (Continued)

Lab Sample ID: F2K150000043C

Matrix: Solid

Analysis Batch: 2320043

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 2320043_P

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2.000σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Uranium 238	3.39	4.06		0.51	0.04	pCi/g	120	82 - 122

Tracer	%Yield	LCS Qualifier	Limits

Lab Sample ID: F2J260436007X

Matrix: Solid

Analysis Batch: 2320043

Client Sample ID: 125727_T6S7 (440-27510-7) DUP

Prep Type: Total

Prep Batch: 2320043_P

Analyte	Sample Result	Sample Qual	LR1 Result	LR1 Qual	Total Uncert. (2.000σ+/-)	MDC	Unit	RPD	RPD Limit
Uranium 235/236	-0.006	U	0.018	U	0.038	0.072	pCi/g	392	
Uranium 238	0.86		0.70		0.16	0.05	pCi/g	21	40

Tracer	%Yield	LR1 Qualifier	Limits

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Lab Sample ID: F2J300000086B

Matrix: Solid

Analysis Batch: 2304086

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 2304086_P

Analyte	MB Result	MB Qualifier	Count Uncert. (2.000σ+/-)	Total Uncert. (2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Antimony 125	0.015	U	0.030	0.030	0.045	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Barium 133	0.0106		0.0086	0.0087	0.021	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Bismuth 212	0.050	U	0.074	0.074	0.12	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Bismuth 214	0.037		0.024	0.024	0.036	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Cesium 134	0.007	U	0.010	0.010	0.017	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Cesium 137	-0.0006	U	0.010	0.010	0.018	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Cobalt 60	-0.00008	U	0.00020	0.00020	0.017	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Europium 152	0.025	J	0.032	0.032	0.043	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Europium 154	0.020	U	0.028	0.029	0.12	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Europium 155	0.005	U	0.024	0.024	0.040	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Lead 212	0.002	U	0.023	0.023	0.034	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Lead 214	0.088		0.030	0.032	0.034	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Potassium 40	0.11	J	0.13	0.13	0.22	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Radium (226)	0.037	J	0.024	0.024	0.036	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Sodium 22	0.0	U	0.0040	0.0040	0.027	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Thallium 208	-0.009	U	0.018	0.018	0.020	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Thorium 232	0.029	U	0.025	0.025	0.12	pCi/g	10/30/12 00:00	11/20/12 19:21	1

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD (Continued)

Lab Sample ID: F2J30000086B
Matrix: Solid
Analysis Batch: 2304086

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 2304086_P

Analyte	MB Result	MB Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2.000σ+/-)	Uncert. (2.000σ+/-)					
Actinium 227	-0.01	U	0.10	0.10	0.17	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Protactinium 231	0.09	U	0.19	0.19	0.76	pCi/g	10/30/12 00:00	11/20/12 19:21	1

Lab Sample ID: F2J30000086C
Matrix: Solid
Analysis Batch: 2304086

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 2304086_P

Analyte	Spike Added	LCS Result	LCS Qual	Total	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2.000σ+/-)				
Radium (226)	12.2	10.3		1.3	0.4	pCi/g	84	73 - 107
Thorium 232	9.50	9.1		1.2	0.6	pCi/g	96	82 - 126

Lab Sample ID: F2J260435001X
Matrix: Solid
Analysis Batch: 2304086

Client Sample ID: Duplicate
Prep Type: Total
Prep Batch: 2304086_P

Analyte	Sample Result	Sample Qual	LR1	LR1	Total	MDC	Unit	RPD	Limit
			Result	Qual	Uncert. (2.000σ+/-)				
Actinium 228	1.19		1.17		0.14	0.12	pCi/g	1	
Antimony 125	0.126	J	0.129	J	0.032	0.059	pCi/g	2	
Barium 133	-0.023	U	-0.025	U	0.020	0.032	pCi/g	6	
Cesium 134	0.0075	U	0.024	U	0.019	0.063	pCi/g	103	
Cesium 137	0.01	U	0.003	U	0.015	0.025	pCi/g	109	
Cobalt 60	0.017	J	0.012	J	0.012	0.024	pCi/g	35	
Europium 152	-0.023	U	0.037	J	0.052	0.059	pCi/g	850	
Europium 154	0.06	U	0.022	U	0.061	0.16	pCi/g	92	
Europium 155	0.079	J	0.081	J	0.042	0.050	pCi/g	2	
Potassium 40	19.6		19.1		2.0	0.2	pCi/g	3	
Radium (226)	0.89	J	0.88	J	0.11	0.04	pCi/g	2	
Sodium 22	0.0	U	0.003	U	0.019	0.032	pCi/g	200	
Thallium 208	0.428		0.387		0.049	0.021	pCi/g	10	
Thorium 232	1.19		1.17		0.14	0.12	pCi/g	1	
Thorium 234	1.46		0.49		0.20	0.27	pCi/g	99	
Actinium 227	-0.06	U	0.05	U	0.15	0.23	pCi/g	1960	
Protactinium 231	0.26	U	-0.13	U	0.60	1.0	pCi/g	578	

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Lab Sample ID: F3G01000027B
Matrix: Solid
Analysis Batch: 3182027

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 3182027_P

Analyte	MB Result	MB Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2.000σ+/-)	Uncert. (2.000σ+/-)					
Strontium Total	0.010	U	0.019	0.019	0.032	pCi/g	07/01/13 00:00	07/14/13 16:51	1

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD (Continued)

Lab Sample ID: F3G01000027B
Matrix: Solid
Analysis Batch: 3182027

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 3182027_P

Tracer	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Sr Tracer	92		40 - 110	07/01/13 00:00	07/14/13 16:51	1

Lab Sample ID: F3G01000027C
Matrix: Solid
Analysis Batch: 3182027

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 3182027_P

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2.000σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Strontium Total	3.71	3.57		0.36	0.03	pCi/g	96	70 - 130

Tracer	LCS	LCS	Limits
	%Yield	Qualifier	
Sr Tracer	95		40 - 110

Lab Sample ID: F2J260435001X
Matrix: Solid
Analysis Batch: 3182027

Client Sample ID: Duplicate
Prep Type: Total
Prep Batch: 3182027_P

Analyte	Sample Result	Sample Qual	LR1 Result	LR1 Qual	Total Uncert. (2.000σ+/-)	MDC	Unit	RPD	Limit
Strontium Total	0.019	U	0.004	U	0.023	0.040	pCi/g	126	40

Tracer	LR1	LR1	Limits
	%Yield	Qualifier	
Sr Tracer	93		40 - 110

QC Association Summary

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

GC/MS VOA

Prep Batch: 61479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27446-G-4-B MS	Matrix Spike	Total/NA	Solid	5035	
440-27446-H-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 62141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27446-G-4-B MS	Matrix Spike	Total/NA	Solid	8260B	61479
440-27446-H-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	61479
440-27510-1	125727_T3S1	Total/NA	Solid	8260B	
440-27510-2	125727_T2S2	Total/NA	Solid	8260B	
440-27510-3	125727_T1S3	Total/NA	Solid	8260B	
440-27510-4	125727_T4S4	Total/NA	Solid	8260B	
440-27510-5	125727_T7S5	Total/NA	Solid	8260B	
440-27510-6	125727_T5S6	Total/NA	Solid	8260B	
440-27510-7	125727_T6S7	Total/NA	Solid	8260B	
LCS 440-62141/17	Lab Control Sample	Total/NA	Solid	8260B	
MB 440-62141/3	Method Blank	Total/NA	Solid	8260B	

GC Semi VOA

Prep Batch: 62374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27446-F-4-A MS	Matrix Spike	Total/NA	Solid	3546	
440-27446-F-4-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	
440-27510-1	125727_T3S1	Total/NA	Solid	3546	
LCS 440-62374/5-A	Lab Control Sample	Total/NA	Solid	3546	
MB 440-62374/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 62486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27446-F-4-A MS	Matrix Spike	Total/NA	Solid	8082	62374
440-27446-F-4-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	62374
440-27510-1	125727_T3S1	Total/NA	Solid	8082	62374
LCS 440-62374/5-A	Lab Control Sample	Total/NA	Solid	8082	62374
MB 440-62374/1-A	Method Blank	Total/NA	Solid	8082	62374

Prep Batch: 63418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27446-F-15-A MS	Matrix Spike	Total/NA	Solid	3546	
440-27446-F-15-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	
440-27510-2	125727_T2S2	Total/NA	Solid	3546	
440-27510-3	125727_T1S3	Total/NA	Solid	3546	
440-27510-4	125727_T4S4	Total/NA	Solid	3546	
440-27510-5	125727_T7S5	Total/NA	Solid	3546	
440-27510-6	125727_T5S6	Total/NA	Solid	3546	
440-27510-7	125727_T6S7	Total/NA	Solid	3546	
LCS 440-63418/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 440-63418/1-A	Method Blank	Total/NA	Solid	3546	

QC Association Summary

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

GC Semi VOA (Continued)

Analysis Batch: 63428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27446-F-15-A MS	Matrix Spike	Total/NA	Solid	8082	63418
440-27446-F-15-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	63418
440-27510-2	125727_T2S2	Total/NA	Solid	8082	63418
440-27510-3	125727_T1S3	Total/NA	Solid	8082	63418
440-27510-4	125727_T4S4	Total/NA	Solid	8082	63418
440-27510-5	125727_T7S5	Total/NA	Solid	8082	63418
440-27510-6	125727_T5S6	Total/NA	Solid	8082	63418
440-27510-7	125727_T6S7	Total/NA	Solid	8082	63418
LCS 440-63418/2-A	Lab Control Sample	Total/NA	Solid	8082	63418
MB 440-63418/1-A	Method Blank	Total/NA	Solid	8082	63418

Metals

Prep Batch: 62114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27510-1	125727_T3S1	Total/NA	Solid	3050B	
440-27510-1 MS	125727_T3S1	Total/NA	Solid	3050B	
440-27510-1 MSD	125727_T3S1	Total/NA	Solid	3050B	
LCS 440-62114/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
MB 440-62114/1-A ^5	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 62168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27496-A-1-F MS	Matrix Spike	Total/NA	Solid	7471A	
440-27496-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	
440-27510-1	125727_T3S1	Total/NA	Solid	7471A	
LCS 440-62168/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 440-62168/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 62726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27496-A-1-F MS	Matrix Spike	Total/NA	Solid	7471A	62168
440-27496-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	62168
440-27510-1	125727_T3S1	Total/NA	Solid	7471A	62168
LCS 440-62168/2-A	Lab Control Sample	Total/NA	Solid	7471A	62168
MB 440-62168/1-A	Method Blank	Total/NA	Solid	7471A	62168

Analysis Batch: 62775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27510-1	125727_T3S1	Total/NA	Solid	6010B	62114
440-27510-1 MS	125727_T3S1	Total/NA	Solid	6010B	62114
440-27510-1 MSD	125727_T3S1	Total/NA	Solid	6010B	62114
LCS 440-62114/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	62114
MB 440-62114/1-A ^5	Method Blank	Total/NA	Solid	6010B	62114

Prep Batch: 62905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27510-1	125727_T3S1	Total/NA	Solid	3050B	
440-27510-1 MS	125727_T3S1	Total/NA	Solid	3050B	
440-27510-1 MSD	125727_T3S1	Total/NA	Solid	3050B	

TestAmerica Irvine

QC Association Summary

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Metals (Continued)

Prep Batch: 62905 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-62905/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
MB 440-62905/1-A ^5	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 62996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27510-2	125727_T2S2	Total/NA	Solid	3050B	
440-27510-2 MS	125727_T2S2	Total/NA	Solid	3050B	
440-27510-2 MSD	125727_T2S2	Total/NA	Solid	3050B	
440-27510-3	125727_T1S3	Total/NA	Solid	3050B	
440-27510-4	125727_T4S4	Total/NA	Solid	3050B	
440-27510-5	125727_T7S5	Total/NA	Solid	3050B	
440-27510-6	125727_T5S6	Total/NA	Solid	3050B	
440-27510-7	125727_T6S7	Total/NA	Solid	3050B	
LCS 440-62996/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 440-62996/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 63094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27510-1	125727_T3S1	Total/NA	Solid	6010B	62905
440-27510-1 MS	125727_T3S1	Total/NA	Solid	6010B	62905
440-27510-1 MSD	125727_T3S1	Total/NA	Solid	6010B	62905
LCS 440-62905/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	62905
MB 440-62905/1-A ^5	Method Blank	Total/NA	Solid	6010B	62905

Prep Batch: 63314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27446-E-4-H MS	Matrix Spike	Total/NA	Solid	7471A	
440-27446-E-4-I MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	
440-27510-2	125727_T2S2	Total/NA	Solid	7471A	
440-27510-3	125727_T1S3	Total/NA	Solid	7471A	
440-27510-4	125727_T4S4	Total/NA	Solid	7471A	
440-27510-5	125727_T7S5	Total/NA	Solid	7471A	
440-27510-6	125727_T5S6	Total/NA	Solid	7471A	
440-27510-7	125727_T6S7	Total/NA	Solid	7471A	
LCS 440-63314/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 440-63314/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 63562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27510-2	125727_T2S2	Total/NA	Solid	6010B	62996
440-27510-2 MS	125727_T2S2	Total/NA	Solid	6010B	62996
440-27510-2 MSD	125727_T2S2	Total/NA	Solid	6010B	62996
440-27510-3	125727_T1S3	Total/NA	Solid	6010B	62996
440-27510-4	125727_T4S4	Total/NA	Solid	6010B	62996
440-27510-5	125727_T7S5	Total/NA	Solid	6010B	62996
440-27510-6	125727_T5S6	Total/NA	Solid	6010B	62996
440-27510-7	125727_T6S7	Total/NA	Solid	6010B	62996
LCS 440-62996/2-A	Lab Control Sample	Total/NA	Solid	6010B	62996
MB 440-62996/1-A	Method Blank	Total/NA	Solid	6010B	62996

QC Association Summary

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Metals (Continued)

Analysis Batch: 63894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27446-E-4-H MS	Matrix Spike	Total/NA	Solid	7471A	63314
440-27446-E-4-I MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	63314
440-27510-2	125727_T2S2	Total/NA	Solid	7471A	63314
440-27510-3	125727_T1S3	Total/NA	Solid	7471A	63314
440-27510-4	125727_T4S4	Total/NA	Solid	7471A	63314
440-27510-5	125727_T7S5	Total/NA	Solid	7471A	63314
440-27510-6	125727_T5S6	Total/NA	Solid	7471A	63314
440-27510-7	125727_T6S7	Total/NA	Solid	7471A	63314
LCS 440-63314/2-A	Lab Control Sample	Total/NA	Solid	7471A	63314
MB 440-63314/1-A	Method Blank	Total/NA	Solid	7471A	63314

General Chemistry

Analysis Batch: 2310014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27510-1	125727_T3S1	Total	Solid	160.3 MOD	
440-27510-2	125727_T2S2	Total	Solid	160.3 MOD	
440-27510-3	125727_T1S3	Total	Solid	160.3 MOD	
440-27510-4	125727_T4S4	Total	Solid	160.3 MOD	
440-27510-5	125727_T7S5	Total	Solid	160.3 MOD	
440-27510-6	125727_T5S6	Total	Solid	160.3 MOD	
440-27510-7	125727_T6S7	Total	Solid	160.3 MOD	
F2J260436001X	125727_T3S1 (440-27510-1) DUP	Total	Solid	160.3 MOD	

RAD

Prep Batch: 2304086_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27510-1	125727_T3S1	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
440-27510-2	125727_T2S2	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
440-27510-3	125727_T1S3	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
440-27510-4	125727_T4S4	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
440-27510-5	125727_T7S5	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
440-27510-6	125727_T5S6	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	

QC Association Summary

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

RAD (Continued)

Prep Batch: 2304086_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27510-7	125727_T6S7	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
F2J260435001X	Duplicate	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
F2J300000086B	Method Blank	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
F2J300000086C	Lab Control Sample	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	

Prep Batch: 2314028_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27510-1	125727_T3S1	Total	Solid	Extraction Chromatography - Sequential Actinides	
440-27510-2	125727_T2S2	Total	Solid	Extraction Chromatography - Sequential Actinides	
440-27510-3	125727_T1S3	Total	Solid	Extraction Chromatography - Sequential Actinides	
440-27510-4	125727_T4S4	Total	Solid	Extraction Chromatography - Sequential Actinides	
440-27510-5	125727_T7S5	Total	Solid	Extraction Chromatography - Sequential Actinides	
440-27510-6	125727_T5S6	Total	Solid	Extraction Chromatography - Sequential Actinides	
F2J260434001X	Duplicate	Total	Solid	Extraction Chromatography - Sequential Actinides	
F2K090000028B	Method Blank	Total	Solid	Extraction Chromatography - Sequential Actinides	
F2K090000028C	Lab Control Sample	Total	Solid	Extraction Chromatography - Sequential Actinides	

QC Association Summary

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

RAD (Continued)

Prep Batch: 2320016_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27510-1	125727_T3S1	Total	Solid	Distillation and Suspended in LSC Cocktail	
440-27510-2	125727_T2S2	Total	Solid	Distillation and Suspended in LSC Cocktail	
440-27510-3	125727_T1S3	Total	Solid	Distillation and Suspended in LSC Cocktail	
440-27510-4	125727_T4S4	Total	Solid	Distillation and Suspended in LSC Cocktail	
440-27510-5	125727_T7S5	Total	Solid	Distillation and Suspended in LSC Cocktail	
440-27510-6	125727_T5S6	Total	Solid	Distillation and Suspended in LSC Cocktail	
440-27510-7	125727_T6S7	Total	Solid	Distillation and Suspended in LSC Cocktail	
F2J260436001X	125727_T3S1 (440-27510-1) DUP	Total	Solid	Distillation and Suspended in LSC Cocktail	
F2J260436002S	125727_T2S2 (440-27510-2)	Total	Solid	Distillation and Suspended in LSC Cocktail	
F2K150000016B	Method Blank	Total	Solid	Distillation and Suspended in LSC Cocktail	
F2K150000016C	Lab Control Sample	Total	Solid	Distillation and Suspended in LSC Cocktail	

Prep Batch: 2320043_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27510-7	125727_T6S7	Total	Solid	Extraction Chromatography - Sequential Actinides	
F2J260436007X	125727_T6S7 (440-27510-7) DUP	Total	Solid	Extraction Chromatography - Sequential Actinides	
F2K150000043B	Method Blank	Total	Solid	Extraction Chromatography - Sequential Actinides	
F2K150000043C	Lab Control Sample	Total	Solid	Extraction Chromatography - Sequential Actinides	

Prep Batch: 3182027_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27510-1	125727_T3S1	Total	Solid	Extraction Chromatography	

TestAmerica Irvine



QC Association Summary

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

RAD (Continued)

Prep Batch: 3182027_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27510-2	125727_T2S2	Total	Solid	Extraction Chromatography	
440-27510-3	125727_T1S3	Total	Solid	Extraction Chromatography	
440-27510-4	125727_T4S4	Total	Solid	Extraction Chromatography	
440-27510-5	125727_T7S5	Total	Solid	Extraction Chromatography	
440-27510-6	125727_T5S6	Total	Solid	Extraction Chromatography	
440-27510-7	125727_T6S7	Total	Solid	Extraction Chromatography	
F2J260435001X	Duplicate	Total	Solid	Extraction Chromatography	
F3G010000027B	Method Blank	Total	Solid	Extraction Chromatography	
F3G010000027C	Lab Control Sample	Total	Solid	Extraction Chromatography	

Definitions/Glossary

Client: The Boeing Company
Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
*	LCS or LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

RAD

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.
J	Result is greater than sample detection limit but less than stated reporting limit.

RAD TICs

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-14
Arizona	State Program	9	AZ0671	10-13-13
California	LA Cty Sanitation Districts	9	10256	01-31-14
California	NELAP	9	1108CA	01-31-14
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	01-28-14 *
Hawaii	State Program	9	N/A	01-31-14
Nevada	State Program	9	CA015312007A	07-31-13
New Mexico	State Program	6	N/A	01-31-14
Northern Mariana Islands	State Program	9	MP0002	01-31-14
Oregon	NELAP	10	4005	09-12-13
USDA	Federal		P330-09-00080	06-06-14
USEPA UCMR	Federal	1	CA01531	01-31-15

Laboratory: TestAmerica St. Louis

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-14
California	NELAP	9	2542	03-31-14
Connecticut	State Program	1	PH-0241	03-31-15
Florida	NELAP	4	E87689	06-30-13
Illinois	NELAP	5	200023	11-30-13
Iowa	State Program	7	373	12-01-14
Kansas	NELAP	7	E-10236	10-31-13
Kentucky	State Program	4	90125	12-31-13
L-A-B	DoD ELAP		L2305	01-10-16
Louisiana	NELAP	6	106151	06-30-14
Louisiana	NELAP	6	LA070016	12-31-13
Maryland	State Program	3	310	09-30-13
Missouri	State Program	7	780	06-30-13
Nevada	State Program	9	MO000542013-1	07-31-13
New Jersey	NELAP	2	MO002	06-30-14
New York	NELAP	2	11616	04-01-14
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-13
Pennsylvania	NELAP	3	68-00540	02-28-14
South Carolina	State Program	4	85002	06-30-13
Texas	NELAP	6	T104704193	07-31-13
USDA	Federal		P330-07-00122	01-03-14
USEPA Reg V SDWA	Federal	1	N/A	08-30-14
Utah	NELAP	8	MO000542012-4	06-30-13
Virginia	NELAP	3	460230	06-14-14
Washington	State Program	10	C1310	08-31-13
West Virginia DEP	State Program	3	381	08-30-13

* Expired certification is currently pending renewal and is considered valid.

440-27510

440-275072 Page 1 of 1

CHAIN OF CUSTODY FORM

Test America Version 04/28/06

Client Name/Address: The Boeing Company SSFL 5800 Woolsey Canyon Road Canoga Park, CA 91304-1148		Project: 125727 B/1300 ISRA TRENCH SOIL WC		ANALYSIS REQUIRED Uranium Isotopic Alpha Spec: U-234, U-235, U-238 Gamma Spec: Ac-227, Ac-228, Sp-125, Bi-212, Bi-214, Pb-212, Pb-214, Cs-134, Cs-137, Co-60, Pu-231, Na-22, Tl-208 Pu-152, Pu-154, Pu-155, K-40, Tl-203, Na-22, Tl-208		Please send copy of results to Tom Armenoff: [thomas.c.armenoff@boeing.com]	
Test America Contact: Heather Clark Project Manager: Kevin Ruddick Sampler: Van Vathansan / Andrew Payne		Phone Number: (818) 466-8089 Fax Number: (818) 466-8743 E-mail: kevin.f.ruddick@boeing.com		PCB as Aroclors VOC (EPA 8260) Cam 17 metals Tritium Sr-90		Please provide level II data package with signed cover page and bedrms format edd	
Sample Description	Sample Matrix	Container Type	# of Cont	Sampling Date/Time	Preservative	Bottle #	Comments
125727_T3S1	Solid	8 oz jar	8	10-23-12 / 0752	NA	—	Run STLC (WET)/TCLP if TTLC results >=10X STLC/20X TCLP thresholds
125727_T2S2	Solid	8 oz jar	8	10-23-12 / 0910	NA	—	Run STLC (WET)/TCLP if TTLC results >=10X STLC/20X TCLP thresholds
125727_T1S3	Solid	8 oz jar	8	10-23-12 / 0824	NA	—	Run STLC (WET)/TCLP if TTLC results >=10X STLC/20X TCLP thresholds
125727_T4S4	Solid	8 oz jar	8	10-23-12 / 0755	NA	—	Run STLC (WET)/TCLP if TTLC results >=10X STLC/20X TCLP thresholds
125727_T7S5	Solid	8 oz jar	8	10-23-12 / 0846	NA	—	Run STLC (WET)/TCLP if TTLC results >=10X STLC/20X TCLP thresholds
125727_T5S6	Solid	8 oz jar	8	10-23-12 / 0830	NA	—	Run STLC (WET)/TCLP if TTLC results >=10X STLC/20X TCLP thresholds
125727_T6S7	Solid	8 oz jar	8	10-23-12 / 0902	NA	—	Run STLC (WET)/TCLP if TTLC results >=10X STLC/20X TCLP thresholds
Relinquished By: <i>APF</i>		Date/Time: 10/23/12		Received By: <i>Matt Ormally</i>		Date/Time: 10-23-12 15:05	
Relinquished By: <i>APF</i>		Date/Time: 10-23-12 19:15		Received By: <i>Tim Soderstrom</i>		Date/Time: 10/23/12 1915	
Relinquished By:		Date/Time:		Received By:		Date/Time:	
						Turn around Time: (check) 24 Hours <input type="checkbox"/> 5 Days <input checked="" type="checkbox"/> XX5 48 Hours <input type="checkbox"/> 10 Days <input checked="" type="checkbox"/> XX 72 Hours <input type="checkbox"/> Normal <input type="checkbox"/> Perchlorate Only 72 Hours <input type="checkbox"/> Metals Only 72 Hours <input type="checkbox"/> Sample Integrity: (Check) Intact <input checked="" type="checkbox"/> On Ice: <input type="checkbox"/> 4.1°C	

Login Sample Receipt Checklist

Client: The Boeing Company

Job Number: 440-27510-1

Login Number: 27510

List Number: 1

Creator: Escalante, Maria

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Tracer/Carrier Summary

Client: The Boeing Company
 Project/Site: 125727 B/1300 ISRA TRENCH SOIL WC

TestAmerica Job ID: 440-27510-1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Matrix: Solid

Prep Type: Total

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Uranium-232: (30-110)	
440-27510-1	125727_T3S1	67	
440-27510-2	125727_T2S2	63	
440-27510-3	125727_T1S3	60	
440-27510-4	125727_T4S4	53	
440-27510-5	125727_T7S5	69	
440-27510-6	125727_T5S6	60	
440-27510-7 - RE	125727_T6S7	55	
F2J260434001X	Duplicate	76	
F2J260436007X - RE	125727_T6S7 (440-27510-7) DUP	50	
F2K090000028B	Method Blank	90	
F2K090000028C	Lab Control Sample	89	
F2K150000043B	Method Blank	80	
F2K150000043C	Lab Control Sample	82	
Tracer/Carrier Legend			
Uranium-232 = Uranium-232			

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Matrix: Solid

Prep Type: Total

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Sr Tracer (40-110)	
440-27510-1 - RE	125727_T3S1	85	
440-27510-2 - RE	125727_T2S2	85	
440-27510-3 - RE	125727_T1S3	79	
440-27510-4 - RE	125727_T4S4	79	
440-27510-5 - RE	125727_T7S5	76	
440-27510-6 - RE	125727_T5S6	77	
440-27510-7 - RE	125727_T6S7	80	
F2J260435001X - RE	Duplicate	93	
F3G010000027B	Method Blank	92	
F3G010000027C	Lab Control Sample	95	
Tracer/Carrier Legend			
Sr Tracer = Sr Tracer			

Appendix 5
Laboratory Report for Batch 440-27512

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-27512-1

Client Project/Site: 125727 B/1300 IRSA SHL SOIL WC

Revision: 7

For:

The Boeing Company

5800 Woolsey Canyon Road

Canoga Park, California 91304-1148

Attn: Tom Venable



Authorized for release by:

8/7/2013 7:44:52 PM

Debby Wilson, Project Manager I

debby.wilson@testamericainc.com

Designee for

Heather Clark, Project Manager I

heather.clark@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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14

Table of Contents

Cover Page	1
Table of Contents	2
Sample Summary	3
Case Narrative	4
Client Sample Results	8
Method Summary	45
Chronicle	46
QC Sample Results	54
QC Association	76
Definitions	84
Certification Summary	85
Chain of Custody	86
Receipt Checklists	87
Tracer Carrier Summary	88



Sample Summary

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-27512-1	125727_B1S1	Solid	10/23/12 09:30	10/23/12 19:15
440-27512-2	125727_B1S2	Solid	10/23/12 09:50	10/23/12 19:15
440-27512-3	125727_B2S3	Solid	10/23/12 10:24	10/23/12 19:15
440-27512-4	125727_B2S4	Solid	10/23/12 13:00	10/23/12 19:15
440-27512-5	125727_B4S5	Solid	10/23/12 12:40	10/23/12 19:15
440-27512-6	125727_B3S6	Solid	10/23/12 12:32	10/23/12 19:15
440-27512-7	125727_B7S7	Solid	10/23/12 09:40	10/23/12 19:15
440-27512-8	125727_B5S8	Solid	10/23/12 11:20	10/23/12 19:15
440-27512-9	125727_B3S9	Solid	10/23/12 11:15	10/23/12 19:15
440-27512-10	125727_B5S10	Solid	10/23/12 11:45	10/23/12 19:15
440-27512-11	125727_B7S11	Solid	10/23/12 10:37	10/23/12 19:15

Case Narrative

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Job ID: 440-27512-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative 440-27512-1

Comments

06/18/13: The samples for Gamma Spec were re-processed using the SSFL Gamma library. The EDD, report, and case narrative have been revised. 07/17/13: Revised to include Strontium reanalysis and additional case narrative.

Receipt

The samples were received on 10/23/2012 7:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.9° C.

GC/MS VOA

Method(s) 8260B: The following sample(s) was diluted due to the nature of the sample matrix: 125727_B1S1 (440-27512-1), 125727_B1S2 (440-27512-2), 125727_B2S3 (440-27512-3), 125727_B2S4 (440-27512-4), 125727_B3S6 (440-27512-6), 125727_B4S5 (440-27512-5), 125727_B7S7 (440-27512-7), 125749_RB_S1 (440-27511-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The following sample(s) was diluted due to the nature of the sample matrix: 125727_B3S9 (440-27512-9), 125727_B5S10 (440-27512-10), 125727_B5S8 (440-27512-8), 125727_B7S11 (440-27512-11). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The continuing calibration verification (CCV) for dichlorobromomethane associated with batch 62405 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 62405 exceeded control limits for the following analytes: 1,1,1,2-tetrachloroethane, carbon tetrachloride, chlorodibromomethane, cis-1,3-dichloropropene, and trans-1,3-dichloropropene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: Samples contained Toluene at j-flag levels. This is due to contamination in the lab. Samples reported as is. 125727_B1S1 (440-27512-1), 125727_B1S2 (440-27512-2), 125727_B2S3 (440-27512-3), 125727_B2S4 (440-27512-4), 125727_B3S6 (440-27512-6), 125727_B4S5 (440-27512-5), 125727_B7S7 (440-27512-7)

No other analytical or quality issues were noted.

GC Semi VOA

No analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

Observations/Nonconformances

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

Strontium-90 by GFPC (EML SR-03-RC MOD)

Batch: 2319013

Since Sr-89 is not expected to be present in the samples, the total strontium results are assumed to be equivalent to Sr-90 results. The summary forms will list the total strontium results. The total strontium results will be listed as Sr-90 in the EDD.

The samples formed a gel and needed to be centrifuged prior to being loaded onto columns.

The Strontium carrier recovery is outside the lower control limit (40%). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence

Case Narrative

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Job ID: 440-27512-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

of matrix interference. Strontium was non-detected in the samples. Results are provided with this narrative.

Samples 03 and 11 have carrier recoveries below the QC limit of 40% indicating a potential high bias in the sample results. Strontium was non-detected in the samples. Results are provided with this narrative.

Affected Samples:

F2J260435 (1): 125727_B1S1 (440-27512-1)
F2J260435 (3): 125727_B2S3 (440-27512-3)
F2J260435 (4): 125727_B2S4 (440-27512-4)
F2J260435 (5): 125727_B4S5 (440-27512-5)
F2J260435 (6): 125727_B3S6 (440-27512-6)
F2J260435 (7): 125727_B7S7 (440-27512-7)
F2J260435 (8): 125727_B5S8 (440-27512-8)
F2J260435 (9): 125727_B3S9 (440-27512-9)
F2J260435 (11): 125727_B7S11 (440-27512-11)

The reporting limit was not met. Samples were counted for the maximum time of 1000 minutes.

Affected Samples:

F2J260435 (11): 125727_B7S11 (440-27512-11)

Batch: 2338037

Since Sr-89 is not expected to be present in the samples, the total strontium results are assumed to be equivalent to Sr-90 results. The summary forms will list the total strontium results. The total strontium results will be listed as Sr-90 in the EDD.

The carrier recoveries are outside the lower control limit of 40% in batch 2304049. The samples were sent to re-extract and are reported in batch 2338037.

The LCS carrier recovery is outside acceptance limits of 40-110% (39.21%). LCS spike recoveries are within QC limits demonstrating acceptable sample preparation and instrument performance. There is an apparent anomaly in the sample preparation, isolated to the LCS and not indicative of the batch.

The reporting limit for Total Strontium was not met. The samples were counted for the maximum amount of time. The results are reported with the MDA achieved.

Affected Samples:

F2J260435 (2): 125727_B1S2 (440-27512-2)
F2J260435 (7): 125727_B7S7 (440-27512-7)
F2J260435 (10): 125727_B5S10 (440-27512-10)

Gamma Spectroscopy-Radium-226 & Hits (EML GA-01-R MOD)

Bi-214/Ra-226 analyzed by gamma spectroscopy was detected above the MDA but below the CRDL in the method blank. The data is reported.

Affected Samples:

F2J260435 (1): 125727_B1S1 (440-27512-1)
F2J260435 (2): 125727_B1S2 (440-27512-2)
F2J260435 (3): 125727_B2S3 (440-27512-3)
F2J260435 (4): 125727_B2S4 (440-27512-4)
F2J260435 (5): 125727_B4S5 (440-27512-5)
F2J260435 (6): 125727_B3S6 (440-27512-6)
F2J260435 (7): 125727_B7S7 (440-27512-7)
F2J260435 (8): 125727_B5S8 (440-27512-8)
F2J260435 (9): 125727_B3S9 (440-27512-9)
F2J260435 (10): 125727_B5S10 (440-27512-10)

Case Narrative

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Job ID: 440-27512-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

F2J260435 (11): 125727_B7S11 (440-27512-11)

Nuclide: 227Ac Energy: 236.0, 265.3 Photon Abundance: 0.1105, 0.0671

Actinium-227 does not emit any gamma photons useful for quantification. However, it can be assumed to be in secular equilibrium with the short-lived 227Th daughter product, with consideration for the 98.62% branching ratio for that decay scheme. Therefore, the activity for 227Ac is determined from the 227Th gamma emissions, using the 21.8 year half-life of 227Ac.

Nuclide: 228Ac, 228Ra Energy: various Photon Abundance: various

Actinium-228 can be assumed to be in secular equilibrium with the 228Ra parent.

Activity values for 228Ac are calculated using the half-life, $t_{1/2}=5.75$ years, of the long-lived 228Ra parent. If the requested analysis involves the quantification of both 228Ac and 228Ra, the reported results for each nuclide will be identical. The quantification will be obtained from the measurement of the observed 228Ac photo-peaks with emission energies of 338.40, 911.07, and 968.90 keV.

Nuclide: 212Bi, 212Pb, 208Tl Energy: various Photon Abundance: various

All activity values for 212Bi, 212Pb, and 208Tl are calculated using the half-life, $t_{1/2}=1.91$ years, of the long-lived 228Th parent. It is assumed that secular equilibrium is achieved between the 228Th parent and the 212Bi, and 212Pb progeny, as well as the 208Tl progeny, after consideration of the 35.9% branching ratio for that decay scheme.

Nuclide: 134Cs Energy: 604.66 Photon Abundance: 0.9762

Cesium-134 suffers from coincidence summing, due to the multiple simultaneous photon emissions during each decay event. This results in a potentially low bias in the final analytical results. The magnitude of this low bias is highly dependent on the 134Cs activity levels and the specific counting geometry. Any 134Cs activity reported above the associated Minimum Detectable Concentration (MDC) should be considered to have a potential low bias.

The most abundant gamma emission specified for quantification of this nuclide suffers from possible resolution interference due to the 124Sb gamma emission occurring at 602.71 keV (0.9826, abundance). Therefore, a possibility of a high bias to the 134Cs results may occur in the presence of elevated 124Sb activity.

Other gamma emissions used for quantification of this nuclide suffer from possible resolution interference due to multiple gamma emissions of 228Ac. Therefore, a possible high bias to the 134Cs activity results may occur in the presence of elevated 228Ac activity.

Nuclide: 137Cs Energy: 661.62 keV Photon Abundance: 0.8512

Cesium-137 does not emit any gamma photons useful for quantification. However, it can be assumed to be in secular equilibrium with its short-lived 137mBa daughter, with consideration for the 94.6% branching ratio for that decay scheme. The calculated gamma photon abundance used in the library is the product of the 0.8998 abundance of the 661.62 keV 137mBa photon and the 0.946 branching ratio.

Nuclide: 152Eu Energy: 1408.1 Photon Abundance: 0.2121

The primary gamma emission useful for quantification of this nuclide suffers from possible interference due to the 214Bi gamma emission occurring at 1408.0 keV (0.0248, abundance). Therefore, 152Eu results may be biased high in the presence of elevated 214Bi activity.

Nuclide: 155Eu Energy: 105.31 Photon Abundance: 0.2180

The gamma emission useful for quantification of this nuclide suffers from possible resolution interference due to the 235U gamma emission occurring at 105 keV (0.0210, abundance). Therefore, a possibility of a high bias to the 155Eu results may occur in the presence of elevated 235U activity.

Europium-155 also emits gamma photons at 86.47 keV, however this emission energy is subject to significant Pb x-ray interference and is therefore excluded from the library.

Nuclide: 125Sb Energy: 600.8 Photon Abundance: 0.1786

The 600.8 keV gamma emission specified for this nuclide suffers from possible resolution interference from the 124Sb gamma emission occurring at 602.71 keV (0.9826, abundance). Therefore, this photo-peak will be used as an identifier only and not in the activity calculations for this nuclide.

Nuclide: 22Na Energy: 1274.5 Photon Abundance: 0.9994

Case Narrative

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Job ID: 440-27512-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

The 1274.5 keV photo-peak used to quantify ²²Na suffers from positive interference in the presence of ¹⁵⁴Eu, which emits a 1274.8 keV gamma photon with an abundance factor of 0.355. There are no other gamma emissions useful for quantifying ²²Na. In the presence in the absence of ¹⁵⁴Eu activity above the detection limit, ²²Na results above the detection limit should be flagged as an estimated value.

Additional Case Narrative 07/17/13

The laboratory utilized a site-specific (and EPA approved) library to process the data, which defines the isotopes to report along with the energy lines and abundance values. While attempting to reduce the incidence of spectral interferences, this library is still known to generate high bias/false positive results for certain nuclides in the presence of elevated levels of naturally occurring isotopes.

The following two nuclides exhibited interference in many of the samples:

Eu-155 - There are two main photons associated with this decay (21.8% @ 105.3 keV, ~31% @ 86.5 keV). Both are subject to interferences - 105 keV due to U-235 and 86.5 keV due to Lead, Radium, and Actinium x-rays. The SSFL library utilizes the 105.3 keV photon, resulting in a high bias or false positive when U-235 is present. Presence of Eu-155 is expected by the client to be accompanied by the presence of Eu-152 and/or Eu-154. Given the lack of detection of these nuclides along with the apparent interference from U-235, the laboratory does not believe Eu-155 to be present in these samples.

Sb-125 - The library peaks for this nuclide are 176.3 keV (7.3%), 428.0 keV (29.6%), 463.5 keV (10%), 600.8 keV (18.4%), and 636.2 keV (11.2%). The 4.4% abundant Ac-228 peak at 463.0 keV is often assigned by the software to be the 463.5 keV peak of Sb-125. And, while the most abundant Sb-125 (29.6% @ 428.0 keV) is not seen above the sample-specific MDC in the spectra, the inclusion of the 463 keV interference peak in the weighted average results in a high bias or false positive. The laboratory does not believe Sb-125 to be present in these samples.

-001: Eu-155, Sb-125 - see above

-002: Cs-134 - For sample 125727-B1S2 (440-27512-2), the 604.7 peak is assigned based upon a peak identified 3-4 keV from the known energy. The laboratory does not believe Cs-134 to be present in this sample.

Eu-155, Sb-125 - see above

-003: Eu-155, Sb-125 - see above

-004: Sb-125 - see above

-005: Eu-155, Sb-125 - see above

-006: Sb-125 - see above

-007: Eu-155, Sb-125 - see above

-008: Sb-125 - see above

-009: Sb-125 - see above

-010: Sb-125 - see above

-011: Eu-155, Sb-125 - see above

Additional Case Narrative added 8/7/13:

Co-60 - The software indicates both peaks (1173.2 and 1332.5 keV) failed the shape tests for this sample. In addition, while one would expect similar count in the two peaks (similar efficiency and abundance), there is a discrepancy in the counts due to the poor peak fit. The laboratory does not believe this nuclide to be present in this sample.

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B1S1

Lab Sample ID: 440-27512-1

Date Collected: 10/23/12 09:30

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.4	2.4	ug/Kg			10/27/12 20:53	1
Styrene	ND		9.4	2.7	ug/Kg			10/27/12 20:53	1
cis-1,3-Dichloropropene	ND		9.4	2.1	ug/Kg			10/27/12 20:53	1
trans-1,3-Dichloropropene	ND		9.4	2.9	ug/Kg			10/27/12 20:53	1
N-Propylbenzene	ND		9.4	2.9	ug/Kg			10/27/12 20:53	1
n-Butylbenzene	ND		24	3.4	ug/Kg			10/27/12 20:53	1
4-Chlorotoluene	ND		24	3.5	ug/Kg			10/27/12 20:53	1
1,4-Dichlorobenzene	ND		9.4	4.4	ug/Kg			10/27/12 20:53	1
1,2-Dibromoethane (EDB)	ND		9.4	3.8	ug/Kg			10/27/12 20:53	1
1,2-Dichloroethane	ND		9.4	3.8	ug/Kg			10/27/12 20:53	1
4-Methyl-2-pentanone (MIBK)	ND		24	21	ug/Kg			10/27/12 20:53	1
1,3,5-Trimethylbenzene	ND		9.4	3.0	ug/Kg			10/27/12 20:53	1
Bromobenzene	ND		24	4.0	ug/Kg			10/27/12 20:53	1
Toluene	2.8	J	9.4	2.4	ug/Kg			10/27/12 20:53	1
Chlorobenzene	ND		9.4	2.5	ug/Kg			10/27/12 20:53	1
1,2,4-Trichlorobenzene	ND		24	4.7	ug/Kg			10/27/12 20:53	1
Dibromochloromethane	ND		9.4	3.3	ug/Kg			10/27/12 20:53	1
Tetrachloroethene	ND		9.4	2.3	ug/Kg			10/27/12 20:53	1
sec-Butylbenzene	ND		24	3.2	ug/Kg			10/27/12 20:53	1
m,p-Xylene	ND		9.4	3.8	ug/Kg			10/27/12 20:53	1
1,3-Dichloropropane	ND		9.4	3.0	ug/Kg			10/27/12 20:53	1
cis-1,2-Dichloroethene	ND		9.4	3.9	ug/Kg			10/27/12 20:53	1
trans-1,2-Dichloroethene	ND		9.4	3.3	ug/Kg			10/27/12 20:53	1
Methyl-t-Butyl Ether (MTBE)	ND		24	4.7	ug/Kg			10/27/12 20:53	1
1,3-Dichlorobenzene	ND		9.4	4.0	ug/Kg			10/27/12 20:53	1
Carbon tetrachloride	ND		24	2.4	ug/Kg			10/27/12 20:53	1
1,1-Dichloropropene	ND		9.4	1.9	ug/Kg			10/27/12 20:53	1
2-Hexanone	ND		120	43	ug/Kg			10/27/12 20:53	1
2,2-Dichloropropane	ND		9.4	2.8	ug/Kg			10/27/12 20:53	1
1,1,1,2-Tetrachloroethane	ND		24	2.7	ug/Kg			10/27/12 20:53	1
Acetone	ND		47	38	ug/Kg			10/27/12 20:53	1
Chloroform	ND		9.4	2.4	ug/Kg			10/27/12 20:53	1
Benzene	ND		9.4	2.4	ug/Kg			10/27/12 20:53	1
1,1,1-Trichloroethane	ND		9.4	3.3	ug/Kg			10/27/12 20:53	1
Bromomethane	ND		24	4.3	ug/Kg			10/27/12 20:53	1
Chloromethane	ND		24	4.7	ug/Kg			10/27/12 20:53	1
Dibromomethane	ND		9.4	4.2	ug/Kg			10/27/12 20:53	1
Bromochloromethane	ND		24	4.2	ug/Kg			10/27/12 20:53	1
Chloroethane	ND		24	7.1	ug/Kg			10/27/12 20:53	1
Vinyl chloride	ND		24	4.3	ug/Kg			10/27/12 20:53	1
Methylene Chloride	ND		94	31	ug/Kg			10/27/12 20:53	1
Carbon disulfide	ND		24	4.6	ug/Kg			10/27/12 20:53	1
Bromoform	ND		24	3.8	ug/Kg			10/27/12 20:53	1
Bromodichloromethane	ND		9.4	2.4	ug/Kg			10/27/12 20:53	1
1,1-Dichloroethane	ND		9.4	2.4	ug/Kg			10/27/12 20:53	1
1,1-Dichloroethene	ND		24	2.8	ug/Kg			10/27/12 20:53	1
Trichlorofluoromethane	ND		24	2.5	ug/Kg			10/27/12 20:53	1
Dichlorodifluoromethane	ND		24	7.1	ug/Kg			10/27/12 20:53	1
1,2-Dichloropropane	ND		9.4	3.8	ug/Kg			10/27/12 20:53	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B1S1

Lab Sample ID: 440-27512-1

Date Collected: 10/23/12 09:30

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		47	28	ug/Kg			10/27/12 20:53	1
1,1,2-Trichloroethane	ND		9.4	4.1	ug/Kg			10/27/12 20:53	1
Trichloroethene	ND		9.4	2.4	ug/Kg			10/27/12 20:53	1
1,1,2,2-Tetrachloroethane	ND		9.4	4.1	ug/Kg			10/27/12 20:53	1
1,2,3-Trichlorobenzene	ND		24	4.7	ug/Kg			10/27/12 20:53	1
Hexachlorobutadiene	ND		24	3.8	ug/Kg			10/27/12 20:53	1
Naphthalene	ND		24	5.2	ug/Kg			10/27/12 20:53	1
o-Xylene	ND		9.4	2.4	ug/Kg			10/27/12 20:53	1
2-Chlorotoluene	ND		24	4.1	ug/Kg			10/27/12 20:53	1
1,2-Dichlorobenzene	ND		9.4	4.5	ug/Kg			10/27/12 20:53	1
1,2,4-Trimethylbenzene	ND		9.4	3.7	ug/Kg			10/27/12 20:53	1
1,2-Dibromo-3-Chloropropane	ND		24	7.1	ug/Kg			10/27/12 20:53	1
1,2,3-Trichloropropane	ND		47	4.7	ug/Kg			10/27/12 20:53	1
tert-Butylbenzene	ND		24	2.9	ug/Kg			10/27/12 20:53	1
Isopropylbenzene	ND		9.4	2.5	ug/Kg			10/27/12 20:53	1
p-Isopropyltoluene	ND		9.4	3.4	ug/Kg			10/27/12 20:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		80 - 120					10/27/12 20:53	1
4-Bromofluorobenzene (Surr)	107		80 - 120					10/27/12 20:53	1
Dibromofluoromethane (Surr)	116		80 - 125					10/27/12 20:53	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		10/25/12 08:39	10/25/12 23:21	1
Aroclor 1221	ND		50	12	ug/Kg		10/25/12 08:39	10/25/12 23:21	1
Aroclor 1232	ND		50	12	ug/Kg		10/25/12 08:39	10/25/12 23:21	1
Aroclor 1242	ND		50	12	ug/Kg		10/25/12 08:39	10/25/12 23:21	1
Aroclor 1248	ND		50	12	ug/Kg		10/25/12 08:39	10/25/12 23:21	1
Aroclor 1254	ND		50	12	ug/Kg		10/25/12 08:39	10/25/12 23:21	1
Aroclor 1260	ND		50	12	ug/Kg		10/25/12 08:39	10/25/12 23:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	65		45 - 120				10/25/12 08:39	10/25/12 23:21	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	1.1	mg/Kg		10/26/12 14:32	10/29/12 23:52	5
Arsenic	11		2.0	0.80	mg/Kg		10/26/12 14:32	10/29/12 23:52	5
Barium	67		0.99	0.79	mg/Kg		10/26/12 14:32	10/29/12 23:52	5
Beryllium	0.50		0.49	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:52	5
Cadmium	0.24	J	0.49	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:52	5
Chromium	17		0.99	0.30	mg/Kg		10/26/12 14:32	10/29/12 23:52	5
Cobalt	4.3		0.99	0.30	mg/Kg		10/26/12 14:32	10/29/12 23:52	5
Copper	8.9		2.0	0.37	mg/Kg		10/26/12 14:32	10/29/12 23:52	5
Lead	4.1		2.0	0.49	mg/Kg		10/26/12 14:32	10/29/12 23:52	5
Molybdenum	1.3	J	2.0	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:52	5
Nickel	12		2.0	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:52	5
Selenium	ND		2.0	0.99	mg/Kg		10/26/12 14:32	10/29/12 23:52	5
Thallium	ND		9.9	0.79	mg/Kg		10/26/12 14:32	10/29/12 23:52	5

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B1S1

Lab Sample ID: 440-27512-1

Date Collected: 10/23/12 09:30

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	29		0.99	0.30	mg/Kg		10/26/12 14:32	10/29/12 23:52	5
Zinc	48		4.9	0.49	mg/Kg		10/26/12 14:32	10/29/12 23:52	5
Silver	ND		0.99	0.79	mg/Kg		10/30/12 14:58	10/30/12 21:28	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.89		0.020	0.012	mg/Kg		10/28/12 15:40	10/29/12 17:08	1

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Tritium	0.056	U	0.090	0.090	0.15	pCi/g	11/15/12 00:00	11/16/12 17:56	1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Uranium 234	0.73		0.13	0.14	0.04	pCi/g	11/12/12 00:00	11/19/12 22:44	1
Uranium 235/236	0.024		0.028	0.028	0.037	pCi/g	11/12/12 00:00	11/19/12 22:44	1
Uranium 238	0.64		0.12	0.13	0.03	pCi/g	11/12/12 00:00	11/19/12 22:44	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	61		30 - 110	11/12/12 00:00	11/19/12 22:44	1

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Actinium 228	1.19		0.08	0.15	0.16	pCi/g	10/30/12 00:00	11/20/12 09:51	1
Antimony 125	0.126	J	0.030	0.032	0.077	pCi/g	10/30/12 00:00	11/20/12 09:51	1
Cesium 134	0.0075	U	0.0098	0.0099	0.018	pCi/g	10/30/12 00:00	11/20/12 09:51	1
Cesium 137	0.01	U	0.024	0.024	0.030	pCi/g	10/30/12 00:00	11/20/12 09:51	1
Cobalt 60	0.017	J	0.014	0.014	0.026	pCi/g	10/30/12 00:00	11/20/12 09:51	1
Europium 152	-0.023	U	0.048	0.048	0.080	pCi/g	10/30/12 00:00	11/20/12 09:51	1
Europium 154	0.06	U	0.11	0.11	0.18	pCi/g	10/30/12 00:00	11/20/12 09:51	1
Europium 155	0.079	J	0.047	0.047	0.062	pCi/g	10/30/12 00:00	11/20/12 09:51	1
Potassium 40	19.6		0.7	2.1	0.2	pCi/g	10/30/12 00:00	11/20/12 09:51	1
Radium (226)	0.89	J	0.07	0.12	0.07	pCi/g	10/30/12 00:00	11/20/12 09:51	1
Sodium 22	0.0	U	0.022	0.022	0.040	pCi/g	10/30/12 00:00	11/20/12 09:51	1
Thorium 232	1.19		0.08	0.15	0.16	pCi/g	10/30/12 00:00	11/20/12 09:51	1
Thorium 234	1.46		0.26	0.31	0.32	pCi/g	10/30/12 00:00	11/20/12 09:51	1
Actinium 227	-0.06	U	0.19	0.19	0.31	pCi/g	10/30/12 00:00	11/20/12 09:51	1
Protactinium 231	0.26	U	0.78	0.78	1.3	pCi/g	10/30/12 00:00	11/20/12 09:51	1

Other Detected Radionuclides	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Barium 133	-0.023	U	0.023	0.024	0.038	pCi/g	10/30/12 00:00	11/20/12 09:51	1
Bismuth 212	1.01		0.22	0.24	0.20	pCi/g	10/30/12 00:00	11/20/12 09:51	1
Bismuth 214	0.89		0.07	0.12	0.07	pCi/g	10/30/12 00:00	11/20/12 09:51	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B1S1

Lab Sample ID: 440-27512-1

Date Collected: 10/23/12 09:30

Matrix: Solid

Date Received: 10/23/12 19:15

Percent Solids: 94.8

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD (Continued)

Other Detected Radionuclides	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2.000σ+/-)	Uncert. (2.000σ+/-)					
Lead 212	1.28		0.05	0.17	0.04	pCi/g	10/30/12 00:00	11/20/12 09:51	1
Lead 214	0.90		0.07	0.12	0.07	pCi/g	10/30/12 00:00	11/20/12 09:51	1
Thallium 208	0.428		0.034	0.056	0.027	pCi/g	10/30/12 00:00	11/20/12 09:51	1

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2.000σ+/-)	Uncert. (2.000σ+/-)					
Strontium Total	0.019	U	0.026	0.026	0.043	pCi/g	07/01/13 00:00	07/14/13 16:43	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Sr Tracer	88		40 - 110	07/01/13 00:00	07/14/13 16:43	1

Client Sample ID: 125727_B1S2

Lab Sample ID: 440-27512-2

Date Collected: 10/23/12 09:50

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.6	2.2	ug/Kg			10/27/12 21:22	1
Styrene	ND		8.6	2.5	ug/Kg			10/27/12 21:22	1
cis-1,3-Dichloropropene	ND		8.6	1.9	ug/Kg			10/27/12 21:22	1
trans-1,3-Dichloropropene	ND		8.6	2.6	ug/Kg			10/27/12 21:22	1
N-Propylbenzene	ND		8.6	2.6	ug/Kg			10/27/12 21:22	1
n-Butylbenzene	ND		22	3.1	ug/Kg			10/27/12 21:22	1
4-Chlorotoluene	ND		22	3.2	ug/Kg			10/27/12 21:22	1
1,4-Dichlorobenzene	ND		8.6	4.1	ug/Kg			10/27/12 21:22	1
1,2-Dibromoethane (EDB)	ND		8.6	3.4	ug/Kg			10/27/12 21:22	1
1,2-Dichloroethane	ND		8.6	3.4	ug/Kg			10/27/12 21:22	1
4-Methyl-2-pentanone (MIBK)	ND		22	19	ug/Kg			10/27/12 21:22	1
1,3,5-Trimethylbenzene	ND		8.6	2.7	ug/Kg			10/27/12 21:22	1
Bromobenzene	ND		22	3.6	ug/Kg			10/27/12 21:22	1
Toluene	2.2	J	8.6	2.2	ug/Kg			10/27/12 21:22	1
Chlorobenzene	ND		8.6	2.2	ug/Kg			10/27/12 21:22	1
1,2,4-Trichlorobenzene	ND		22	4.3	ug/Kg			10/27/12 21:22	1
Dibromochloromethane	ND		8.6	3.0	ug/Kg			10/27/12 21:22	1
Tetrachloroethene	ND		8.6	2.1	ug/Kg			10/27/12 21:22	1
sec-Butylbenzene	ND		22	2.9	ug/Kg			10/27/12 21:22	1
m,p-Xylene	ND		8.6	3.4	ug/Kg			10/27/12 21:22	1
1,3-Dichloropropane	ND		8.6	2.7	ug/Kg			10/27/12 21:22	1
cis-1,2-Dichloroethene	ND		8.6	3.6	ug/Kg			10/27/12 21:22	1
trans-1,2-Dichloroethene	ND		8.6	3.0	ug/Kg			10/27/12 21:22	1
Methyl-t-Butyl Ether (MTBE)	ND		22	4.3	ug/Kg			10/27/12 21:22	1
1,3-Dichlorobenzene	ND		8.6	3.6	ug/Kg			10/27/12 21:22	1
Carbon tetrachloride	ND		22	2.2	ug/Kg			10/27/12 21:22	1
1,1-Dichloropropene	ND		8.6	1.7	ug/Kg			10/27/12 21:22	1
2-Hexanone	ND		110	39	ug/Kg			10/27/12 21:22	1
2,2-Dichloropropane	ND		8.6	2.6	ug/Kg			10/27/12 21:22	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B1S2

Lab Sample ID: 440-27512-2

Date Collected: 10/23/12 09:50

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		22	2.5	ug/Kg			10/27/12 21:22	1
Acetone	ND		43	34	ug/Kg			10/27/12 21:22	1
Chloroform	ND		8.6	2.2	ug/Kg			10/27/12 21:22	1
Benzene	ND		8.6	2.2	ug/Kg			10/27/12 21:22	1
1,1,1-Trichloroethane	ND		8.6	3.0	ug/Kg			10/27/12 21:22	1
Bromomethane	ND		22	4.0	ug/Kg			10/27/12 21:22	1
Chloromethane	ND		22	4.3	ug/Kg			10/27/12 21:22	1
Dibromomethane	ND		8.6	3.9	ug/Kg			10/27/12 21:22	1
Bromochloromethane	ND		22	3.9	ug/Kg			10/27/12 21:22	1
Chloroethane	ND		22	6.5	ug/Kg			10/27/12 21:22	1
Vinyl chloride	ND		22	3.9	ug/Kg			10/27/12 21:22	1
Methylene Chloride	ND		86	28	ug/Kg			10/27/12 21:22	1
Carbon disulfide	ND		22	4.2	ug/Kg			10/27/12 21:22	1
Bromoform	ND		22	3.4	ug/Kg			10/27/12 21:22	1
Bromodichloromethane	ND		8.6	2.2	ug/Kg			10/27/12 21:22	1
1,1-Dichloroethane	ND		8.6	2.2	ug/Kg			10/27/12 21:22	1
1,1-Dichloroethene	ND		22	2.6	ug/Kg			10/27/12 21:22	1
Trichlorofluoromethane	ND		22	2.3	ug/Kg			10/27/12 21:22	1
Dichlorodifluoromethane	ND		22	6.5	ug/Kg			10/27/12 21:22	1
1,2-Dichloropropane	ND		8.6	3.4	ug/Kg			10/27/12 21:22	1
2-Butanone (MEK)	ND		43	26	ug/Kg			10/27/12 21:22	1
1,1,2-Trichloroethane	ND		8.6	3.8	ug/Kg			10/27/12 21:22	1
Trichloroethene	ND		8.6	2.2	ug/Kg			10/27/12 21:22	1
1,1,2,2-Tetrachloroethane	ND		8.6	3.7	ug/Kg			10/27/12 21:22	1
1,2,3-Trichlorobenzene	ND		22	4.3	ug/Kg			10/27/12 21:22	1
Hexachlorobutadiene	ND		22	3.4	ug/Kg			10/27/12 21:22	1
Naphthalene	ND		22	4.7	ug/Kg			10/27/12 21:22	1
o-Xylene	ND		8.6	2.2	ug/Kg			10/27/12 21:22	1
2-Chlorotoluene	ND		22	3.8	ug/Kg			10/27/12 21:22	1
1,2-Dichlorobenzene	ND		8.6	4.1	ug/Kg			10/27/12 21:22	1
1,2,4-Trimethylbenzene	ND		8.6	3.4	ug/Kg			10/27/12 21:22	1
1,2-Dibromo-3-Chloropropane	ND		22	6.5	ug/Kg			10/27/12 21:22	1
1,2,3-Trichloropropane	ND		43	4.3	ug/Kg			10/27/12 21:22	1
tert-Butylbenzene	ND		22	2.7	ug/Kg			10/27/12 21:22	1
Isopropylbenzene	ND		8.6	2.3	ug/Kg			10/27/12 21:22	1
p-Isopropyltoluene	ND		8.6	3.1	ug/Kg			10/27/12 21:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	108		80 - 120					10/27/12 21:22	1
4-Bromofluorobenzene (Surr)	103		80 - 120					10/27/12 21:22	1
Dibromofluoromethane (Surr)	114		80 - 125					10/27/12 21:22	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 00:05	1
Aroclor 1221	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 00:05	1
Aroclor 1232	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 00:05	1
Aroclor 1242	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 00:05	1
Aroclor 1248	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 00:05	1
Aroclor 1254	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 00:05	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B1S2

Lab Sample ID: 440-27512-2

Date Collected: 10/23/12 09:50

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1260	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 00:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	73		45 - 120				10/25/12 08:39	10/26/12 00:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	1.2	mg/Kg		10/26/12 14:32	10/29/12 23:54	5
Arsenic	8.6		2.0	0.82	mg/Kg		10/26/12 14:32	10/29/12 23:54	5
Barium	67		1.0	0.81	mg/Kg		10/26/12 14:32	10/29/12 23:54	5
Beryllium	0.54		0.51	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:54	5
Cadmium	0.23	J	0.51	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:54	5
Chromium	16		1.0	0.30	mg/Kg		10/26/12 14:32	10/29/12 23:54	5
Cobalt	4.2		1.0	0.30	mg/Kg		10/26/12 14:32	10/29/12 23:54	5
Copper	8.3		2.0	0.38	mg/Kg		10/26/12 14:32	10/29/12 23:54	5
Lead	4.6		2.0	0.51	mg/Kg		10/26/12 14:32	10/29/12 23:54	5
Molybdenum	1.2	J	2.0	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:54	5
Nickel	11		2.0	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:54	5
Selenium	ND		2.0	1.0	mg/Kg		10/26/12 14:32	10/29/12 23:54	5
Thallium	ND		10	0.81	mg/Kg		10/26/12 14:32	10/29/12 23:54	5
Vanadium	29		1.0	0.30	mg/Kg		10/26/12 14:32	10/29/12 23:54	5
Zinc	48		5.1	0.51	mg/Kg		10/26/12 14:32	10/29/12 23:54	5
Silver	ND		1.0	0.80	mg/Kg		10/30/12 14:58	10/30/12 21:29	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.020	0.012	mg/Kg		10/28/12 15:40	10/29/12 17:11	1

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Tritium	0.21		0.12	0.13	0.15	pCi/g	11/15/12 00:00	11/16/12 18:43	1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Uranium 234	1.20		0.16	0.19	0.03	pCi/g	11/12/12 00:00	11/19/12 22:44	1
Uranium 235/236	0.058		0.040	0.040	0.030	pCi/g	11/12/12 00:00	11/19/12 22:44	1
Uranium 238	1.46		0.18	0.21	0.03	pCi/g	11/12/12 00:00	11/19/12 22:44	1
Tracer	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Uranium-232	66		30 - 110				11/12/12 00:00	11/19/12 22:44	1

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Actinium 228	1.12		0.08	0.14	0.13	pCi/g	10/30/12 00:00	11/20/12 10:00	1
Antimony 125	0.108	J	0.031	0.033	0.066	pCi/g	10/30/12 00:00	11/20/12 10:00	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B1S2

Lab Sample ID: 440-27512-2

Date Collected: 10/23/12 09:50

Matrix: Solid

Date Received: 10/23/12 19:15

Percent Solids: 94.6

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD (Continued)

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Barium 133	-0.029	U	0.021	0.021	0.033	pCi/g	10/30/12 00:00	11/20/12 10:00	1
Cesium 134	0.0325	J	0.0089	0.0095	0.012	pCi/g	10/30/12 00:00	11/20/12 10:00	1
Cesium 137	0.005	U	0.016	0.016	0.027	pCi/g	10/30/12 00:00	11/20/12 10:00	1
Cobalt 60	-0.014	U	0.075	0.075	0.031	pCi/g	10/30/12 00:00	11/20/12 10:00	1
Europium 152	-0.034	U	0.043	0.043	0.071	pCi/g	10/30/12 00:00	11/20/12 10:00	1
Europium 154	-0.060	U	0.098	0.098	0.16	pCi/g	10/30/12 00:00	11/20/12 10:00	1
Europium 155	0.093	J	0.049	0.050	0.062	pCi/g	10/30/12 00:00	11/20/12 10:00	1
Potassium 40	19.6		0.6	2.1	0.3	pCi/g	10/30/12 00:00	11/20/12 10:00	1
Radium (226)	0.99	J	0.06	0.12	0.05	pCi/g	10/30/12 00:00	11/20/12 10:00	1
Sodium 22	0.0005	U	0.018	0.018	0.030	pCi/g	10/30/12 00:00	11/20/12 10:00	1
Thallium 208	0.392		0.032	0.052	0.027	pCi/g	10/30/12 00:00	11/20/12 10:00	1
Thorium 232	1.12		0.08	0.14	0.13	pCi/g	10/30/12 00:00	11/20/12 10:00	1
Thorium 234	1.0		0.24	0.27	0.32	pCi/g	10/30/12 00:00	11/20/12 10:00	1
Actinium 227	0.053	U	0.035	0.036	0.26	pCi/g	10/30/12 00:00	11/20/12 10:00	1
Protactinium 231	0.25	U	0.42	0.42	1.2	pCi/g	10/30/12 00:00	11/20/12 10:00	1
Other Detected									
	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
Radionuclides			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Bismuth 212	0.91		0.17	0.20	0.15	pCi/g	10/30/12 00:00	11/20/12 10:00	1
Bismuth 214	0.99		0.06	0.12	0.05	pCi/g	10/30/12 00:00	11/20/12 10:00	1
Lead 212	1.15		0.05	0.25	0.05	pCi/g	10/30/12 00:00	11/20/12 10:00	1
Lead 214	1.05		0.05	0.15	0.05	pCi/g	10/30/12 00:00	11/20/12 10:00	1

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Strontium Total	-0.002	U	0.020	0.020	0.035	pCi/g	07/01/13 00:00	07/14/13 16:49	1
Tracer									
	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Sr Tracer	89		40 - 110				07/01/13 00:00	07/14/13 16:49	1

Client Sample ID: 125727_B2S3

Lab Sample ID: 440-27512-3

Date Collected: 10/23/12 10:24

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.2	1.3	ug/Kg			10/27/12 21:50	1
Styrene	ND		5.2	1.5	ug/Kg			10/27/12 21:50	1
cis-1,3-Dichloropropene	ND		5.2	1.1	ug/Kg			10/27/12 21:50	1
trans-1,3-Dichloropropene	ND		5.2	1.6	ug/Kg			10/27/12 21:50	1
N-Propylbenzene	ND		5.2	1.6	ug/Kg			10/27/12 21:50	1
n-Butylbenzene	ND		13	1.9	ug/Kg			10/27/12 21:50	1
4-Chlorotoluene	ND		13	1.9	ug/Kg			10/27/12 21:50	1
1,4-Dichlorobenzene	ND		5.2	2.4	ug/Kg			10/27/12 21:50	1
1,2-Dibromoethane (EDB)	ND		5.2	2.1	ug/Kg			10/27/12 21:50	1
1,2-Dichloroethane	ND		5.2	2.1	ug/Kg			10/27/12 21:50	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B2S3

Lab Sample ID: 440-27512-3

Date Collected: 10/23/12 10:24

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		13	12	ug/Kg			10/27/12 21:50	1
1,3,5-Trimethylbenzene	ND		5.2	1.6	ug/Kg			10/27/12 21:50	1
Bromobenzene	ND		13	2.2	ug/Kg			10/27/12 21:50	1
Toluene	1.6	J	5.2	1.3	ug/Kg			10/27/12 21:50	1
Chlorobenzene	ND		5.2	1.3	ug/Kg			10/27/12 21:50	1
1,2,4-Trichlorobenzene	ND		13	2.6	ug/Kg			10/27/12 21:50	1
Dibromochloromethane	ND		5.2	1.8	ug/Kg			10/27/12 21:50	1
Tetrachloroethene	ND		5.2	1.3	ug/Kg			10/27/12 21:50	1
sec-Butylbenzene	ND		13	1.7	ug/Kg			10/27/12 21:50	1
m,p-Xylene	ND		5.2	2.1	ug/Kg			10/27/12 21:50	1
1,3-Dichloropropane	ND		5.2	1.6	ug/Kg			10/27/12 21:50	1
cis-1,2-Dichloroethene	ND		5.2	2.1	ug/Kg			10/27/12 21:50	1
trans-1,2-Dichloroethene	ND		5.2	1.8	ug/Kg			10/27/12 21:50	1
Methyl-t-Butyl Ether (MTBE)	ND		13	2.6	ug/Kg			10/27/12 21:50	1
1,3-Dichlorobenzene	ND		5.2	2.2	ug/Kg			10/27/12 21:50	1
Carbon tetrachloride	ND		13	1.3	ug/Kg			10/27/12 21:50	1
1,1-Dichloropropene	ND		5.2	1.0	ug/Kg			10/27/12 21:50	1
2-Hexanone	ND		64	23	ug/Kg			10/27/12 21:50	1
2,2-Dichloropropane	ND		5.2	1.5	ug/Kg			10/27/12 21:50	1
1,1,1,2-Tetrachloroethane	ND		13	1.5	ug/Kg			10/27/12 21:50	1
Acetone	ND		26	21	ug/Kg			10/27/12 21:50	1
Chloroform	ND		5.2	1.3	ug/Kg			10/27/12 21:50	1
Benzene	ND		5.2	1.3	ug/Kg			10/27/12 21:50	1
1,1,1-Trichloroethane	ND		5.2	1.8	ug/Kg			10/27/12 21:50	1
Bromomethane	ND		13	2.4	ug/Kg			10/27/12 21:50	1
Chloromethane	ND		13	2.6	ug/Kg			10/27/12 21:50	1
Dibromomethane	ND		5.2	2.3	ug/Kg			10/27/12 21:50	1
Bromochloromethane	ND		13	2.3	ug/Kg			10/27/12 21:50	1
Chloroethane	ND		13	3.9	ug/Kg			10/27/12 21:50	1
Vinyl chloride	ND		13	2.3	ug/Kg			10/27/12 21:50	1
Methylene Chloride	ND		52	17	ug/Kg			10/27/12 21:50	1
Carbon disulfide	ND		13	2.5	ug/Kg			10/27/12 21:50	1
Bromoform	ND		13	2.1	ug/Kg			10/27/12 21:50	1
Bromodichloromethane	ND		5.2	1.3	ug/Kg			10/27/12 21:50	1
1,1-Dichloroethane	ND		5.2	1.3	ug/Kg			10/27/12 21:50	1
1,1-Dichloroethene	ND		13	1.5	ug/Kg			10/27/12 21:50	1
Trichlorofluoromethane	ND		13	1.4	ug/Kg			10/27/12 21:50	1
Dichlorodifluoromethane	ND		13	3.9	ug/Kg			10/27/12 21:50	1
1,2-Dichloropropane	ND		5.2	2.1	ug/Kg			10/27/12 21:50	1
2-Butanone (MEK)	ND		26	15	ug/Kg			10/27/12 21:50	1
1,1,2-Trichloroethane	ND		5.2	2.2	ug/Kg			10/27/12 21:50	1
Trichloroethene	ND		5.2	1.3	ug/Kg			10/27/12 21:50	1
1,1,2,2-Tetrachloroethane	ND		5.2	2.2	ug/Kg			10/27/12 21:50	1
1,2,3-Trichlorobenzene	ND		13	2.6	ug/Kg			10/27/12 21:50	1
Hexachlorobutadiene	ND		13	2.1	ug/Kg			10/27/12 21:50	1
Naphthalene	ND		13	2.8	ug/Kg			10/27/12 21:50	1
o-Xylene	ND		5.2	1.3	ug/Kg			10/27/12 21:50	1
2-Chlorotoluene	ND		13	2.2	ug/Kg			10/27/12 21:50	1
1,2-Dichlorobenzene	ND		5.2	2.4	ug/Kg			10/27/12 21:50	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B2S3

Lab Sample ID: 440-27512-3

Date Collected: 10/23/12 10:24

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		5.2	2.0	ug/Kg			10/27/12 21:50	1
1,2-Dibromo-3-Chloropropane	ND		13	3.9	ug/Kg			10/27/12 21:50	1
1,2,3-Trichloropropane	ND		26	2.6	ug/Kg			10/27/12 21:50	1
tert-Butylbenzene	ND		13	1.6	ug/Kg			10/27/12 21:50	1
Isopropylbenzene	ND		5.2	1.4	ug/Kg			10/27/12 21:50	1
p-Isopropyltoluene	ND		5.2	1.9	ug/Kg			10/27/12 21:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		80 - 120					10/27/12 21:50	1
4-Bromofluorobenzene (Surr)	98		80 - 120					10/27/12 21:50	1
Dibromofluoromethane (Surr)	116		80 - 125					10/27/12 21:50	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 00:34	1
Aroclor 1221	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 00:34	1
Aroclor 1232	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 00:34	1
Aroclor 1242	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 00:34	1
Aroclor 1248	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 00:34	1
Aroclor 1254	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 00:34	1
Aroclor 1260	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 00:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	76		45 - 120				10/25/12 08:39	10/26/12 00:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.6	J	9.9	1.1	mg/Kg		10/26/12 14:32	10/29/12 23:56	5
Arsenic	11		2.0	0.80	mg/Kg		10/26/12 14:32	10/29/12 23:56	5
Barium	62		0.99	0.79	mg/Kg		10/26/12 14:32	10/29/12 23:56	5
Beryllium	0.56		0.49	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:56	5
Cadmium	0.22	J	0.49	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:56	5
Chromium	17		0.99	0.30	mg/Kg		10/26/12 14:32	10/29/12 23:56	5
Cobalt	4.2		0.99	0.30	mg/Kg		10/26/12 14:32	10/29/12 23:56	5
Copper	10		2.0	0.37	mg/Kg		10/26/12 14:32	10/29/12 23:56	5
Lead	4.0		2.0	0.49	mg/Kg		10/26/12 14:32	10/29/12 23:56	5
Molybdenum	1.3	J	2.0	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:56	5
Nickel	11		2.0	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:56	5
Selenium	ND		2.0	0.99	mg/Kg		10/26/12 14:32	10/29/12 23:56	5
Thallium	ND		9.9	0.79	mg/Kg		10/26/12 14:32	10/29/12 23:56	5
Vanadium	29		0.99	0.30	mg/Kg		10/26/12 14:32	10/29/12 23:56	5
Zinc	47		4.9	0.49	mg/Kg		10/26/12 14:32	10/29/12 23:56	5
Silver	ND		0.98	0.78	mg/Kg		10/30/12 14:58	10/30/12 21:36	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.012	mg/Kg		10/28/12 15:40	10/29/12 17:13	1

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B2S3

Lab Sample ID: 440-27512-3

Date Collected: 10/23/12 10:24

Matrix: Solid

Date Received: 10/23/12 19:15

Percent Solids: 82

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Analyte	Result	Qualifier	Count Uncert. (2.000σ+/-)	Total Uncert. (2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	0.17		0.12	0.12	0.17	pCi/g	11/15/12 00:00	11/16/12 19:30	1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Analyte	Result	Qualifier	Count Uncert. (2.000σ+/-)	Total Uncert. (2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium 234	0.76		0.12	0.14	0.03	pCi/g	11/12/12 00:00	11/19/12 22:44	1
Uranium 235/236	0.046		0.035	0.035	0.033	pCi/g	11/12/12 00:00	11/19/12 22:44	1
Uranium 238	0.65		0.11	0.13	0.04	pCi/g	11/12/12 00:00	11/19/12 22:44	1
Tracer	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Uranium-232	67		30 - 110				11/12/12 00:00	11/19/12 22:44	1

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Analyte	Result	Qualifier	Count Uncert. (2.000σ+/-)	Total Uncert. (2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium 228	1.23		0.09	0.15	0.14	pCi/g	10/30/12 00:00	11/20/12 09:59	1
Antimony 125	0.116	J	0.029	0.031	0.075	pCi/g	10/30/12 00:00	11/20/12 09:59	1
Barium 133	-0.025	U	0.023	0.023	0.038	pCi/g	10/30/12 00:00	11/20/12 09:59	1
Cesium 134	0.014	U	0.017	0.017	0.061	pCi/g	10/30/12 00:00	11/20/12 09:59	1
Cesium 137	0.0	U	0.013	0.013	0.036	pCi/g	10/30/12 00:00	11/20/12 09:59	1
Cobalt 60	0.003	U	0.014	0.014	0.026	pCi/g	10/30/12 00:00	11/20/12 09:59	1
Europium 152	0.005	U	0.047	0.047	0.080	pCi/g	10/30/12 00:00	11/20/12 09:59	1
Europium 154	-0.02	U	0.11	0.11	0.18	pCi/g	10/30/12 00:00	11/20/12 09:59	1
Europium 155	0.092	J	0.048	0.049	0.062	pCi/g	10/30/12 00:00	11/20/12 09:59	1
Potassium 40	19.2		0.7	2.1	0.3	pCi/g	10/30/12 00:00	11/20/12 09:59	1
Radium (226)	0.91	J	0.06	0.11	0.05	pCi/g	10/30/12 00:00	11/20/12 09:59	1
Sodium 22	-0.0005	U	0.020	0.020	0.034	pCi/g	10/30/12 00:00	11/20/12 09:59	1
Thallium 208	0.447		0.039	0.061	0.031	pCi/g	10/30/12 00:00	11/20/12 09:59	1
Thorium 232	1.23		0.09	0.15	0.14	pCi/g	10/30/12 00:00	11/20/12 09:59	1
Thorium 234	0.70		0.20	0.21	0.32	pCi/g	10/30/12 00:00	11/20/12 09:59	1
Actinium 227	0.06	U	0.20	0.20	0.30	pCi/g	10/30/12 00:00	11/20/12 09:59	1
Protactinium 231	0.23	U	0.72	0.72	1.2	pCi/g	10/30/12 00:00	11/20/12 09:59	1
Other Detected			Count Uncert.	Total Uncert.					
Radionuclides	Result	Qualifier	(2.000σ+/-)	(2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Bismuth 212	1.06		0.26	0.28	0.21	pCi/g	10/30/12 00:00	11/20/12 09:59	1
Bismuth 214	0.91		0.06	0.11	0.05	pCi/g	10/30/12 00:00	11/20/12 09:59	1
Lead 212	1.30		0.06	0.18	0.05	pCi/g	10/30/12 00:00	11/20/12 09:59	1
Lead 214	0.92		0.06	0.11	0.05	pCi/g	10/30/12 00:00	11/20/12 09:59	1

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Analyte	Result	Qualifier	Count Uncert. (2.000σ+/-)	Total Uncert. (2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Strontium Total	-0.021	U	0.026	0.026	0.046	pCi/g	07/01/13 00:00	07/14/13 16:49	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B2S3

Lab Sample ID: 440-27512-3

Date Collected: 10/23/12 10:24

Matrix: Solid

Date Received: 10/23/12 19:15

Percent Solids: 82

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Sr Tracer	90		40 - 110	07/01/13 00:00	07/14/13 16:49	1

Client Sample ID: 125727_B2S4

Lab Sample ID: 440-27512-4

Date Collected: 10/23/12 13:00

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.9	1.5	ug/Kg			10/27/12 22:18	1
Styrene	ND		5.9	1.7	ug/Kg			10/27/12 22:18	1
cis-1,3-Dichloropropene	ND		5.9	1.3	ug/Kg			10/27/12 22:18	1
trans-1,3-Dichloropropene	ND		5.9	1.8	ug/Kg			10/27/12 22:18	1
N-Propylbenzene	ND		5.9	1.8	ug/Kg			10/27/12 22:18	1
n-Butylbenzene	ND		15	2.1	ug/Kg			10/27/12 22:18	1
4-Chlorotoluene	ND		15	2.2	ug/Kg			10/27/12 22:18	1
1,4-Dichlorobenzene	ND		5.9	2.8	ug/Kg			10/27/12 22:18	1
1,2-Dibromoethane (EDB)	ND		5.9	2.4	ug/Kg			10/27/12 22:18	1
1,2-Dichloroethane	ND		5.9	2.4	ug/Kg			10/27/12 22:18	1
4-Methyl-2-pentanone (MIBK)	ND		15	13	ug/Kg			10/27/12 22:18	1
1,3,5-Trimethylbenzene	ND		5.9	1.9	ug/Kg			10/27/12 22:18	1
Bromobenzene	ND		15	2.5	ug/Kg			10/27/12 22:18	1
Toluene	1.7	J	5.9	1.5	ug/Kg			10/27/12 22:18	1
Chlorobenzene	ND		5.9	1.5	ug/Kg			10/27/12 22:18	1
1,2,4-Trichlorobenzene	ND		15	2.9	ug/Kg			10/27/12 22:18	1
Dibromochloromethane	ND		5.9	2.1	ug/Kg			10/27/12 22:18	1
Tetrachloroethene	ND		5.9	1.4	ug/Kg			10/27/12 22:18	1
sec-Butylbenzene	ND		15	2.0	ug/Kg			10/27/12 22:18	1
m,p-Xylene	ND		5.9	2.4	ug/Kg			10/27/12 22:18	1
1,3-Dichloropropane	ND		5.9	1.9	ug/Kg			10/27/12 22:18	1
cis-1,2-Dichloroethene	ND		5.9	2.4	ug/Kg			10/27/12 22:18	1
trans-1,2-Dichloroethene	ND		5.9	2.1	ug/Kg			10/27/12 22:18	1
Methyl-t-Butyl Ether (MTBE)	ND		15	2.9	ug/Kg			10/27/12 22:18	1
1,3-Dichlorobenzene	ND		5.9	2.5	ug/Kg			10/27/12 22:18	1
Carbon tetrachloride	ND		15	1.5	ug/Kg			10/27/12 22:18	1
1,1-Dichloropropene	ND		5.9	1.2	ug/Kg			10/27/12 22:18	1
2-Hexanone	ND		74	27	ug/Kg			10/27/12 22:18	1
2,2-Dichloropropane	ND		5.9	1.8	ug/Kg			10/27/12 22:18	1
1,1,1,2-Tetrachloroethane	ND		15	1.7	ug/Kg			10/27/12 22:18	1
Acetone	ND		29	24	ug/Kg			10/27/12 22:18	1
Chloroform	ND		5.9	1.5	ug/Kg			10/27/12 22:18	1
Benzene	ND		5.9	1.5	ug/Kg			10/27/12 22:18	1
1,1,1-Trichloroethane	ND		5.9	2.1	ug/Kg			10/27/12 22:18	1
Bromomethane	ND		15	2.7	ug/Kg			10/27/12 22:18	1
Chloromethane	ND		15	2.9	ug/Kg			10/27/12 22:18	1
Dibromomethane	ND		5.9	2.6	ug/Kg			10/27/12 22:18	1
Bromochloromethane	ND		15	2.6	ug/Kg			10/27/12 22:18	1
Chloroethane	ND		15	4.4	ug/Kg			10/27/12 22:18	1
Vinyl chloride	ND		15	2.7	ug/Kg			10/27/12 22:18	1
Methylene Chloride	ND		59	19	ug/Kg			10/27/12 22:18	1
Carbon disulfide	ND		15	2.9	ug/Kg			10/27/12 22:18	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B2S4

Lab Sample ID: 440-27512-4

Date Collected: 10/23/12 13:00

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		15	2.4	ug/Kg			10/27/12 22:18	1
Bromodichloromethane	ND		5.9	1.5	ug/Kg			10/27/12 22:18	1
1,1-Dichloroethane	ND		5.9	1.5	ug/Kg			10/27/12 22:18	1
1,1-Dichloroethene	ND		15	1.8	ug/Kg			10/27/12 22:18	1
Trichlorofluoromethane	ND		15	1.6	ug/Kg			10/27/12 22:18	1
Dichlorodifluoromethane	ND		15	4.4	ug/Kg			10/27/12 22:18	1
1,2-Dichloropropane	ND		5.9	2.4	ug/Kg			10/27/12 22:18	1
2-Butanone (MEK)	ND		29	18	ug/Kg			10/27/12 22:18	1
1,1,2-Trichloroethane	ND		5.9	2.6	ug/Kg			10/27/12 22:18	1
Trichloroethene	ND		5.9	1.5	ug/Kg			10/27/12 22:18	1
1,1,2,2-Tetrachloroethane	ND		5.9	2.5	ug/Kg			10/27/12 22:18	1
1,2,3-Trichlorobenzene	ND		15	2.9	ug/Kg			10/27/12 22:18	1
Hexachlorobutadiene	ND		15	2.4	ug/Kg			10/27/12 22:18	1
Naphthalene	ND		15	3.2	ug/Kg			10/27/12 22:18	1
o-Xylene	ND		5.9	1.5	ug/Kg			10/27/12 22:18	1
2-Chlorotoluene	ND		15	2.6	ug/Kg			10/27/12 22:18	1
1,2-Dichlorobenzene	ND		5.9	2.8	ug/Kg			10/27/12 22:18	1
1,2,4-Trimethylbenzene	ND		5.9	2.3	ug/Kg			10/27/12 22:18	1
1,2-Dibromo-3-Chloropropane	ND		15	4.4	ug/Kg			10/27/12 22:18	1
1,2,3-Trichloropropane	ND		29	2.9	ug/Kg			10/27/12 22:18	1
tert-Butylbenzene	ND		15	1.8	ug/Kg			10/27/12 22:18	1
Isopropylbenzene	ND		5.9	1.6	ug/Kg			10/27/12 22:18	1
p-Isopropyltoluene	ND		5.9	2.1	ug/Kg			10/27/12 22:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 120		10/27/12 22:18	1
4-Bromofluorobenzene (Surr)	104		80 - 120		10/27/12 22:18	1
Dibromofluoromethane (Surr)	118		80 - 125		10/27/12 22:18	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 01:03	1
Aroclor 1221	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 01:03	1
Aroclor 1232	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 01:03	1
Aroclor 1242	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 01:03	1
Aroclor 1248	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 01:03	1
Aroclor 1254	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 01:03	1
Aroclor 1260	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 01:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	53		45 - 120	10/25/12 08:39	10/26/12 01:03	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3	J	10	1.2	mg/Kg		10/26/12 14:32	10/29/12 23:58	5
Arsenic	12		2.0	0.82	mg/Kg		10/26/12 14:32	10/29/12 23:58	5
Barium	70		1.0	0.81	mg/Kg		10/26/12 14:32	10/29/12 23:58	5
Beryllium	0.57		0.51	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:58	5
Cadmium	0.24	J	0.51	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:58	5
Chromium	18		1.0	0.30	mg/Kg		10/26/12 14:32	10/29/12 23:58	5

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B2S4

Lab Sample ID: 440-27512-4

Date Collected: 10/23/12 13:00

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	6.2		1.0	0.30	mg/Kg		10/26/12 14:32	10/29/12 23:58	5
Copper	11		2.0	0.39	mg/Kg		10/26/12 14:32	10/29/12 23:58	5
Lead	6.4		2.0	0.51	mg/Kg		10/26/12 14:32	10/29/12 23:58	5
Molybdenum	1.7	J	2.0	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:58	5
Nickel	10		2.0	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:58	5
Selenium	ND		2.0	1.0	mg/Kg		10/26/12 14:32	10/29/12 23:58	5
Thallium	ND		10	0.81	mg/Kg		10/26/12 14:32	10/29/12 23:58	5
Vanadium	32		1.0	0.30	mg/Kg		10/26/12 14:32	10/29/12 23:58	5
Zinc	61		5.1	0.51	mg/Kg		10/26/12 14:32	10/29/12 23:58	5
Silver	ND		1.0	0.81	mg/Kg		10/30/12 14:58	10/30/12 21:38	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.020	0.012	mg/Kg		10/28/12 15:40	10/29/12 17:16	1

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2.000σ+/-)	Uncert. (2.000σ+/-)					
Tritium	0.12		0.11	0.11	0.17	pCi/g	11/15/12 00:00	11/16/12 19:54	1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2.000σ+/-)	Uncert. (2.000σ+/-)					
Uranium 234	0.67		0.12	0.13	0.03	pCi/g	11/12/12 00:00	11/19/12 22:44	1
Uranium 235/236	0.040		0.033	0.033	0.018	pCi/g	11/12/12 00:00	11/19/12 22:44	1
Uranium 238	0.73		0.13	0.14	0.01	pCi/g	11/12/12 00:00	11/19/12 22:44	1
<i>Tracer</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Uranium-232	63		30 - 110				11/12/12 00:00	11/19/12 22:44	1

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2.000σ+/-)	Uncert. (2.000σ+/-)					
Actinium 228	1.27		0.08	0.15	0.14	pCi/g	10/30/12 00:00	11/20/12 10:30	1
Antimony 125	0.095	J	0.024	0.026	0.071	pCi/g	10/30/12 00:00	11/20/12 10:30	1
Barium 133	0.0170		0.0082	0.0084	0.033	pCi/g	10/30/12 00:00	11/20/12 10:30	1
Cesium 134	-0.025	U	0.017	0.018	0.028	pCi/g	10/30/12 00:00	11/20/12 10:30	1
Cesium 137	-0.003	U	0.017	0.017	0.028	pCi/g	10/30/12 00:00	11/20/12 10:30	1
Cobalt 60	0.028		0.016	0.017	0.027	pCi/g	10/30/12 00:00	11/20/12 10:30	1
Europium 152	-0.008	U	0.041	0.041	0.069	pCi/g	10/30/12 00:00	11/20/12 10:30	1
Europium 154	-0.049	U	0.097	0.097	0.16	pCi/g	10/30/12 00:00	11/20/12 10:30	1
Europium 155	0.069	J	0.045	0.046	0.073	pCi/g	10/30/12 00:00	11/20/12 10:30	1
Potassium 40	19.8		0.6	2.1	0.2	pCi/g	10/30/12 00:00	11/20/12 10:30	1
Radium (226)	0.87	J	0.06	0.11	0.05	pCi/g	10/30/12 00:00	11/20/12 10:30	1
Sodium 22	-0.007	U	0.019	0.019	0.031	pCi/g	10/30/12 00:00	11/20/12 10:30	1
Thallium 208	0.385		0.029	0.049	0.026	pCi/g	10/30/12 00:00	11/20/12 10:30	1
Thorium 232	1.27		0.08	0.15	0.14	pCi/g	10/30/12 00:00	11/20/12 10:30	1
Thorium 234	1.29		0.27	0.31	0.34	pCi/g	10/30/12 00:00	11/20/12 10:30	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B2S4

Lab Sample ID: 440-27512-4

Date Collected: 10/23/12 13:00

Matrix: Solid

Date Received: 10/23/12 19:15

Percent Solids: 81

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD (Continued)

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Actinium 227	0.002	U	0.11	0.11	0.19	pCi/g	10/30/12 00:00	11/20/12 10:30	1
Protactinium 231	0.91		0.78	0.79	0.95	pCi/g	10/30/12 00:00	11/20/12 10:30	1
Other Detected									
Radionuclides	Result	Qualifier	Count Uncert.	Total Uncert.	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2.000σ+/-)	(2.000σ+/-)					
Bismuth 212	1.06		0.20	0.23	0.18	pCi/g	10/30/12 00:00	11/20/12 10:30	1
Bismuth 214	0.87		0.06	0.11	0.05	pCi/g	10/30/12 00:00	11/20/12 10:30	1
Lead 212	1.21		0.05	0.16	0.04	pCi/g	10/30/12 00:00	11/20/12 10:30	1
Lead 214	0.99		0.06	0.12	0.05	pCi/g	10/30/12 00:00	11/20/12 10:30	1

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Strontium Total	-0.001	U	0.020	0.020	0.035	pCi/g	07/01/13 00:00	07/14/13 16:49	1
Tracer									
	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Sr Tracer	95		40 - 110				07/01/13 00:00	07/14/13 16:49	1

Client Sample ID: 125727_B4S5

Lab Sample ID: 440-27512-5

Date Collected: 10/23/12 12:40

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		4.0	1.0	ug/Kg			10/27/12 22:47	1
Styrene	ND		4.0	1.2	ug/Kg			10/27/12 22:47	1
cis-1,3-Dichloropropene	ND		4.0	0.89	ug/Kg			10/27/12 22:47	1
trans-1,3-Dichloropropene	ND		4.0	1.2	ug/Kg			10/27/12 22:47	1
N-Propylbenzene	ND		4.0	1.2	ug/Kg			10/27/12 22:47	1
n-Butylbenzene	ND		10	1.5	ug/Kg			10/27/12 22:47	1
4-Chlorotoluene	ND		10	1.5	ug/Kg			10/27/12 22:47	1
1,4-Dichlorobenzene	ND		4.0	1.9	ug/Kg			10/27/12 22:47	1
1,2-Dibromoethane (EDB)	ND		4.0	1.6	ug/Kg			10/27/12 22:47	1
1,2-Dichloroethane	ND		4.0	1.6	ug/Kg			10/27/12 22:47	1
4-Methyl-2-pentanone (MIBK)	ND		10	9.1	ug/Kg			10/27/12 22:47	1
1,3,5-Trimethylbenzene	ND		4.0	1.3	ug/Kg			10/27/12 22:47	1
Bromobenzene	ND		10	1.7	ug/Kg			10/27/12 22:47	1
Toluene	1.2	J	4.0	1.0	ug/Kg			10/27/12 22:47	1
Chlorobenzene	ND		4.0	1.0	ug/Kg			10/27/12 22:47	1
1,2,4-Trichlorobenzene	ND		10	2.0	ug/Kg			10/27/12 22:47	1
Dibromochloromethane	ND		4.0	1.4	ug/Kg			10/27/12 22:47	1
Tetrachloroethene	ND		4.0	0.99	ug/Kg			10/27/12 22:47	1
sec-Butylbenzene	ND		10	1.4	ug/Kg			10/27/12 22:47	1
m,p-Xylene	ND		4.0	1.6	ug/Kg			10/27/12 22:47	1
1,3-Dichloropropane	ND		4.0	1.3	ug/Kg			10/27/12 22:47	1
cis-1,2-Dichloroethene	ND		4.0	1.7	ug/Kg			10/27/12 22:47	1
trans-1,2-Dichloroethene	ND		4.0	1.4	ug/Kg			10/27/12 22:47	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B4S5

Lab Sample ID: 440-27512-5

Date Collected: 10/23/12 12:40

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-t-Butyl Ether (MTBE)	ND		10	2.0	ug/Kg			10/27/12 22:47	1
1,3-Dichlorobenzene	ND		4.0	1.7	ug/Kg			10/27/12 22:47	1
Carbon tetrachloride	ND		10	1.0	ug/Kg			10/27/12 22:47	1
1,1-Dichloropropene	ND		4.0	0.81	ug/Kg			10/27/12 22:47	1
2-Hexanone	ND		50	18	ug/Kg			10/27/12 22:47	1
2,2-Dichloropropane	ND		4.0	1.2	ug/Kg			10/27/12 22:47	1
1,1,1,2-Tetrachloroethane	ND		10	1.1	ug/Kg			10/27/12 22:47	1
Acetone	ND		20	16	ug/Kg			10/27/12 22:47	1
Chloroform	ND		4.0	1.0	ug/Kg			10/27/12 22:47	1
Benzene	ND		4.0	1.0	ug/Kg			10/27/12 22:47	1
1,1,1-Trichloroethane	ND		4.0	1.4	ug/Kg			10/27/12 22:47	1
Bromomethane	ND		10	1.9	ug/Kg			10/27/12 22:47	1
Chloromethane	ND		10	2.0	ug/Kg			10/27/12 22:47	1
Dibromomethane	ND		4.0	1.8	ug/Kg			10/27/12 22:47	1
Bromochloromethane	ND		10	1.8	ug/Kg			10/27/12 22:47	1
Chloroethane	ND		10	3.0	ug/Kg			10/27/12 22:47	1
Vinyl chloride	ND		10	1.8	ug/Kg			10/27/12 22:47	1
Methylene Chloride	ND		40	13	ug/Kg			10/27/12 22:47	1
Carbon disulfide	ND		10	2.0	ug/Kg			10/27/12 22:47	1
Bromoform	ND		10	1.6	ug/Kg			10/27/12 22:47	1
Bromodichloromethane	ND		4.0	1.0	ug/Kg			10/27/12 22:47	1
1,1-Dichloroethane	ND		4.0	1.0	ug/Kg			10/27/12 22:47	1
1,1-Dichloroethene	ND		10	1.2	ug/Kg			10/27/12 22:47	1
Trichlorofluoromethane	ND		10	1.1	ug/Kg			10/27/12 22:47	1
Dichlorodifluoromethane	ND		10	3.0	ug/Kg			10/27/12 22:47	1
1,2-Dichloropropane	ND		4.0	1.6	ug/Kg			10/27/12 22:47	1
2-Butanone (MEK)	ND		20	12	ug/Kg			10/27/12 22:47	1
1,1,2-Trichloroethane	ND		4.0	1.8	ug/Kg			10/27/12 22:47	1
Trichloroethene	ND		4.0	1.0	ug/Kg			10/27/12 22:47	1
1,1,2,2-Tetrachloroethane	ND		4.0	1.7	ug/Kg			10/27/12 22:47	1
1,2,3-Trichlorobenzene	ND		10	2.0	ug/Kg			10/27/12 22:47	1
Hexachlorobutadiene	ND		10	1.6	ug/Kg			10/27/12 22:47	1
Naphthalene	ND		10	2.2	ug/Kg			10/27/12 22:47	1
o-Xylene	ND		4.0	1.0	ug/Kg			10/27/12 22:47	1
2-Chlorotoluene	ND		10	1.8	ug/Kg			10/27/12 22:47	1
1,2-Dichlorobenzene	ND		4.0	1.9	ug/Kg			10/27/12 22:47	1
1,2,4-Trimethylbenzene	ND		4.0	1.6	ug/Kg			10/27/12 22:47	1
1,2-Dibromo-3-Chloropropane	ND		10	3.0	ug/Kg			10/27/12 22:47	1
1,2,3-Trichloropropane	ND		20	2.0	ug/Kg			10/27/12 22:47	1
tert-Butylbenzene	ND		10	1.3	ug/Kg			10/27/12 22:47	1
Isopropylbenzene	ND		4.0	1.1	ug/Kg			10/27/12 22:47	1
p-Isopropyltoluene	ND		4.0	1.5	ug/Kg			10/27/12 22:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 120					10/27/12 22:47	1
4-Bromofluorobenzene (Surr)	99		80 - 120					10/27/12 22:47	1
Dibromofluoromethane (Surr)	117		80 - 125					10/27/12 22:47	1

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B4S5

Lab Sample ID: 440-27512-5

Date Collected: 10/23/12 12:40

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 01:32	1
Aroclor 1221	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 01:32	1
Aroclor 1232	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 01:32	1
Aroclor 1242	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 01:32	1
Aroclor 1248	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 01:32	1
Aroclor 1254	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 01:32	1
Aroclor 1260	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 01:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	53		45 - 120	10/25/12 08:39	10/26/12 01:32	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.8	1.1	mg/Kg		10/26/12 14:32	10/29/12 23:59	5
Arsenic	11		2.0	0.79	mg/Kg		10/26/12 14:32	10/29/12 23:59	5
Barium	83		0.98	0.78	mg/Kg		10/26/12 14:32	10/29/12 23:59	5
Beryllium	0.58		0.49	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:59	5
Cadmium	0.22	J	0.49	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:59	5
Chromium	16		0.98	0.29	mg/Kg		10/26/12 14:32	10/29/12 23:59	5
Cobalt	4.5		0.98	0.29	mg/Kg		10/26/12 14:32	10/29/12 23:59	5
Copper	8.5		2.0	0.37	mg/Kg		10/26/12 14:32	10/29/12 23:59	5
Lead	4.4		2.0	0.49	mg/Kg		10/26/12 14:32	10/29/12 23:59	5
Molybdenum	1.2	J	2.0	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:59	5
Nickel	12		2.0	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:59	5
Selenium	ND		2.0	0.98	mg/Kg		10/26/12 14:32	10/29/12 23:59	5
Thallium	ND		9.8	0.78	mg/Kg		10/26/12 14:32	10/29/12 23:59	5
Vanadium	29		0.98	0.29	mg/Kg		10/26/12 14:32	10/29/12 23:59	5
Zinc	64		4.9	0.49	mg/Kg		10/26/12 14:32	10/29/12 23:59	5
Silver	ND		1.0	0.80	mg/Kg		10/30/12 14:58	10/30/12 21:40	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.020	0.012	mg/Kg		10/28/12 15:40	10/29/12 17:23	1

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Tritium	0.18		0.12	0.12	0.16	pCi/g	11/15/12 00:00	11/16/12 20:17	1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Uranium 234	0.86		0.14	0.16	0.04	pCi/g	11/12/12 00:00	11/19/12 22:44	1
Uranium 235/236	0.040		0.034	0.034	0.031	pCi/g	11/12/12 00:00	11/19/12 22:44	1
Uranium 238	0.91		0.14	0.16	0.02	pCi/g	11/12/12 00:00	11/19/12 22:44	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	62		30 - 110	11/12/12 00:00	11/19/12 22:44	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B4S5

Lab Sample ID: 440-27512-5

Date Collected: 10/23/12 12:40

Matrix: Solid

Date Received: 10/23/12 19:15

Percent Solids: 92.6

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Actinium 228	1.40		0.08	0.16	0.13	pCi/g	10/30/12 00:00	11/20/12 10:31	1
Antimony 125	0.158	J	0.033	0.037	0.067	pCi/g	10/30/12 00:00	11/20/12 10:31	1
Barium 133	-0.018	U	0.020	0.020	0.034	pCi/g	10/30/12 00:00	11/20/12 10:31	1
Cesium 134	0.013	U	0.021	0.021	0.064	pCi/g	10/30/12 00:00	11/20/12 10:31	1
Cesium 137	0.00008	U	0.017	0.017	0.028	pCi/g	10/30/12 00:00	11/20/12 10:31	1
Cobalt 60	0.0	U	0.0053	0.0053	0.024	pCi/g	10/30/12 00:00	11/20/12 10:31	1
Europium 152	0.01	U	0.022	0.022	0.072	pCi/g	10/30/12 00:00	11/20/12 10:31	1
Europium 154	0.019	U	0.048	0.048	0.13	pCi/g	10/30/12 00:00	11/20/12 10:31	1
Europium 155	0.097	J	0.053	0.054	0.065	pCi/g	10/30/12 00:00	11/20/12 10:31	1
Potassium 40	20.4		0.6	2.2	0.2	pCi/g	10/30/12 00:00	11/20/12 10:31	1
Radium (226)	1.07		0.06	0.12	0.04	pCi/g	10/30/12 00:00	11/20/12 10:31	1
Sodium 22	-0.005	U	0.018	0.018	0.030	pCi/g	10/30/12 00:00	11/20/12 10:31	1
Thallium 208	0.504		0.030	0.060	0.022	pCi/g	10/30/12 00:00	11/20/12 10:31	1
Thorium 232	1.40		0.08	0.16	0.13	pCi/g	10/30/12 00:00	11/20/12 10:31	1
Thorium 234	0.27	J	0.19	0.20	0.33	pCi/g	10/30/12 00:00	11/20/12 10:31	1
Actinium 227	0.05	U	0.12	0.12	0.27	pCi/g	10/30/12 00:00	11/20/12 10:31	1
Protactinium 231	-0.21	U	0.71	0.71	1.2	pCi/g	10/30/12 00:00	11/20/12 10:31	1

Other Detected Radionuclides	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Bismuth 212	1.04		0.18	0.21	0.17	pCi/g	10/30/12 00:00	11/20/12 10:31	1
Bismuth 214	1.07		0.06	0.12	0.04	pCi/g	10/30/12 00:00	11/20/12 10:31	1
Lead 212	1.46		0.05	0.20	0.04	pCi/g	10/30/12 00:00	11/20/12 10:31	1
Lead 214	1.11		0.06	0.13	0.05	pCi/g	10/30/12 00:00	11/20/12 10:31	1

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Strontium Total	-0.003	U	0.025	0.025	0.044	pCi/g	07/01/13 00:00	07/14/13 16:49	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Sr Tracer	76		40 - 110	07/01/13 00:00	07/14/13 16:49	1

Client Sample ID: 125727_B3S6

Lab Sample ID: 440-27512-6

Date Collected: 10/23/12 12:32

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.9	1.5	ug/Kg			10/27/12 23:16	1
Styrene	ND		5.9	1.7	ug/Kg			10/27/12 23:16	1
cis-1,3-Dichloropropene	ND		5.9	1.3	ug/Kg			10/27/12 23:16	1
trans-1,3-Dichloropropene	ND		5.9	1.8	ug/Kg			10/27/12 23:16	1
N-Propylbenzene	ND		5.9	1.8	ug/Kg			10/27/12 23:16	1
n-Butylbenzene	ND		15	2.1	ug/Kg			10/27/12 23:16	1
4-Chlorotoluene	ND		15	2.2	ug/Kg			10/27/12 23:16	1
1,4-Dichlorobenzene	ND		5.9	2.8	ug/Kg			10/27/12 23:16	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B3S6

Lab Sample ID: 440-27512-6

Date Collected: 10/23/12 12:32

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		5.9	2.4	ug/Kg			10/27/12 23:16	1
1,2-Dichloroethane	ND		5.9	2.4	ug/Kg			10/27/12 23:16	1
4-Methyl-2-pentanone (MIBK)	ND		15	13	ug/Kg			10/27/12 23:16	1
1,3,5-Trimethylbenzene	ND		5.9	1.9	ug/Kg			10/27/12 23:16	1
Bromobenzene	ND		15	2.5	ug/Kg			10/27/12 23:16	1
Toluene	1.8	J	5.9	1.5	ug/Kg			10/27/12 23:16	1
Chlorobenzene	ND		5.9	1.5	ug/Kg			10/27/12 23:16	1
1,2,4-Trichlorobenzene	ND		15	2.9	ug/Kg			10/27/12 23:16	1
Dibromochloromethane	ND		5.9	2.1	ug/Kg			10/27/12 23:16	1
Tetrachloroethene	ND		5.9	1.4	ug/Kg			10/27/12 23:16	1
sec-Butylbenzene	ND		15	2.0	ug/Kg			10/27/12 23:16	1
m,p-Xylene	ND		5.9	2.4	ug/Kg			10/27/12 23:16	1
1,3-Dichloropropane	ND		5.9	1.9	ug/Kg			10/27/12 23:16	1
cis-1,2-Dichloroethene	ND		5.9	2.4	ug/Kg			10/27/12 23:16	1
trans-1,2-Dichloroethene	ND		5.9	2.1	ug/Kg			10/27/12 23:16	1
Methyl-t-Butyl Ether (MTBE)	ND		15	2.9	ug/Kg			10/27/12 23:16	1
1,3-Dichlorobenzene	ND		5.9	2.5	ug/Kg			10/27/12 23:16	1
Carbon tetrachloride	ND		15	1.5	ug/Kg			10/27/12 23:16	1
1,1-Dichloropropene	ND		5.9	1.2	ug/Kg			10/27/12 23:16	1
2-Hexanone	ND		74	27	ug/Kg			10/27/12 23:16	1
2,2-Dichloropropane	ND		5.9	1.8	ug/Kg			10/27/12 23:16	1
1,1,1,2-Tetrachloroethane	ND		15	1.7	ug/Kg			10/27/12 23:16	1
Acetone	ND		29	24	ug/Kg			10/27/12 23:16	1
Chloroform	ND		5.9	1.5	ug/Kg			10/27/12 23:16	1
Benzene	ND		5.9	1.5	ug/Kg			10/27/12 23:16	1
1,1,1-Trichloroethane	ND		5.9	2.1	ug/Kg			10/27/12 23:16	1
Bromomethane	ND		15	2.7	ug/Kg			10/27/12 23:16	1
Chloromethane	ND		15	2.9	ug/Kg			10/27/12 23:16	1
Dibromomethane	ND		5.9	2.6	ug/Kg			10/27/12 23:16	1
Bromochloromethane	ND		15	2.6	ug/Kg			10/27/12 23:16	1
Chloroethane	ND		15	4.4	ug/Kg			10/27/12 23:16	1
Vinyl chloride	ND		15	2.7	ug/Kg			10/27/12 23:16	1
Methylene Chloride	ND		59	19	ug/Kg			10/27/12 23:16	1
Carbon disulfide	ND		15	2.9	ug/Kg			10/27/12 23:16	1
Bromoform	ND		15	2.4	ug/Kg			10/27/12 23:16	1
Bromodichloromethane	ND		5.9	1.5	ug/Kg			10/27/12 23:16	1
1,1-Dichloroethane	ND		5.9	1.5	ug/Kg			10/27/12 23:16	1
1,1-Dichloroethene	ND		15	1.8	ug/Kg			10/27/12 23:16	1
Trichlorofluoromethane	ND		15	1.6	ug/Kg			10/27/12 23:16	1
Dichlorodifluoromethane	ND		15	4.4	ug/Kg			10/27/12 23:16	1
1,2-Dichloropropane	ND		5.9	2.4	ug/Kg			10/27/12 23:16	1
2-Butanone (MEK)	ND		29	18	ug/Kg			10/27/12 23:16	1
1,1,2-Trichloroethane	ND		5.9	2.6	ug/Kg			10/27/12 23:16	1
Trichloroethene	ND		5.9	1.5	ug/Kg			10/27/12 23:16	1
1,1,2,2-Tetrachloroethane	ND		5.9	2.5	ug/Kg			10/27/12 23:16	1
1,2,3-Trichlorobenzene	ND		15	2.9	ug/Kg			10/27/12 23:16	1
Hexachlorobutadiene	ND		15	2.4	ug/Kg			10/27/12 23:16	1
Naphthalene	ND		15	3.2	ug/Kg			10/27/12 23:16	1
o-Xylene	ND		5.9	1.5	ug/Kg			10/27/12 23:16	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B3S6

Lab Sample ID: 440-27512-6

Date Collected: 10/23/12 12:32

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		15	2.6	ug/Kg			10/27/12 23:16	1
1,2-Dichlorobenzene	ND		5.9	2.8	ug/Kg			10/27/12 23:16	1
1,2,4-Trimethylbenzene	ND		5.9	2.3	ug/Kg			10/27/12 23:16	1
1,2-Dibromo-3-Chloropropane	ND		15	4.4	ug/Kg			10/27/12 23:16	1
1,2,3-Trichloropropane	ND		29	2.9	ug/Kg			10/27/12 23:16	1
tert-Butylbenzene	ND		15	1.8	ug/Kg			10/27/12 23:16	1
Isopropylbenzene	ND		5.9	1.6	ug/Kg			10/27/12 23:16	1
p-Isopropyltoluene	ND		5.9	2.1	ug/Kg			10/27/12 23:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		80 - 120					10/27/12 23:16	1
4-Bromofluorobenzene (Surr)	103		80 - 120					10/27/12 23:16	1
Dibromofluoromethane (Surr)	112		80 - 125					10/27/12 23:16	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 02:01	1
Aroclor 1221	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 02:01	1
Aroclor 1232	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 02:01	1
Aroclor 1242	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 02:01	1
Aroclor 1248	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 02:01	1
Aroclor 1254	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 02:01	1
Aroclor 1260	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 02:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	72		45 - 120				10/25/12 08:39	10/26/12 02:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	1.1	mg/Kg		10/26/12 14:32	10/30/12 00:01	5
Arsenic	7.3		2.0	0.81	mg/Kg		10/26/12 14:32	10/30/12 00:01	5
Barium	54		1.0	0.80	mg/Kg		10/26/12 14:32	10/30/12 00:01	5
Beryllium	0.42 J		0.50	0.20	mg/Kg		10/26/12 14:32	10/30/12 00:01	5
Cadmium	0.26 J		0.50	0.20	mg/Kg		10/26/12 14:32	10/30/12 00:01	5
Chromium	13		1.0	0.30	mg/Kg		10/26/12 14:32	10/30/12 00:01	5
Cobalt	3.6		1.0	0.30	mg/Kg		10/26/12 14:32	10/30/12 00:01	5
Copper	7.0		2.0	0.38	mg/Kg		10/26/12 14:32	10/30/12 00:01	5
Lead	6.3		2.0	0.50	mg/Kg		10/26/12 14:32	10/30/12 00:01	5
Molybdenum	0.97 J		2.0	0.20	mg/Kg		10/26/12 14:32	10/30/12 00:01	5
Nickel	9.6		2.0	0.20	mg/Kg		10/26/12 14:32	10/30/12 00:01	5
Selenium	ND		2.0	1.0	mg/Kg		10/26/12 14:32	10/30/12 00:01	5
Thallium	ND		10	0.80	mg/Kg		10/26/12 14:32	10/30/12 00:01	5
Vanadium	23		1.0	0.30	mg/Kg		10/26/12 14:32	10/30/12 00:01	5
Zinc	45		5.0	0.50	mg/Kg		10/26/12 14:32	10/30/12 00:01	5
Silver	ND		1.0	0.80	mg/Kg		10/30/12 14:58	10/30/12 21:42	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.020	0.012	mg/Kg		10/28/12 15:40	10/29/12 17:26	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B3S6

Lab Sample ID: 440-27512-6

Date Collected: 10/23/12 12:32

Matrix: Solid

Date Received: 10/23/12 19:15

Percent Solids: 96.6

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Analyte	Result	Qualifier	Count Uncert. (2.000σ+/-)	Total Uncert. (2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	0.18		0.12	0.12	0.15	pCi/g	11/15/12 00:00	11/16/12 20:41	1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Analyte	Result	Qualifier	Count Uncert. (2.000σ+/-)	Total Uncert. (2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Uranium 234	0.91		0.16	0.17	0.04	pCi/g	11/12/12 00:00	11/19/12 22:44	1
Uranium 235/236	0.137		0.069	0.069	0.044	pCi/g	11/12/12 00:00	11/19/12 22:44	1
Uranium 238	0.98		0.16	0.18	0.04	pCi/g	11/12/12 00:00	11/19/12 22:44	1
Tracer	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Uranium-232	51		30 - 110				11/12/12 00:00	11/19/12 22:44	1

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Analyte	Result	Qualifier	Count Uncert. (2.000σ+/-)	Total Uncert. (2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium 228	1.10		0.06	0.13	0.12	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Antimony 125	0.093	J	0.025	0.027	0.065	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Barium 133	-0.106	U	0.024	0.027	0.037	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Cesium 134	0.009	U	0.013	0.013	0.065	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Cesium 137	0.00002	U	0.016	0.016	0.027	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Cobalt 60	-0.006	U	0.014	0.014	0.023	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Europium 152	-0.012	U	0.034	0.034	0.056	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Europium 154	0.017	U	0.056	0.056	0.14	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Europium 155	0.030	U	0.045	0.045	0.074	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Potassium 40	21.1		0.6	2.2	0.3	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Radium (226)	1.10		0.06	0.13	0.05	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Sodium 22	0.004	U	0.018	0.018	0.031	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Thallium 208	0.369		0.032	0.050	0.027	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Thorium 232	1.10		0.06	0.13	0.12	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Thorium 234	1.45		0.27	0.31	0.32	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Actinium 227	-0.005	U	0.020	0.020	0.26	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Protactinium 231	-0.15	U	0.56	0.56	0.93	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Other Detected			Count Uncert.	Total Uncert.					
Radionuclides	Result	Qualifier	(2.000σ+/-)	(2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Bismuth 212	0.93		0.20	0.23	0.17	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Bismuth 214	1.10		0.06	0.13	0.05	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Lead 212	1.08		0.05	0.15	0.05	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Lead 214	1.18		0.05	0.13	0.04	pCi/g	10/30/12 00:00	11/20/12 10:32	1

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Analyte	Result	Qualifier	Count Uncert. (2.000σ+/-)	Total Uncert. (2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Strontium Total	-0.0003	U	0.026	0.026	0.046	pCi/g	07/01/13 00:00	07/14/13 16:49	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B3S6

Lab Sample ID: 440-27512-6

Date Collected: 10/23/12 12:32

Matrix: Solid

Date Received: 10/23/12 19:15

Percent Solids: 96.6

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Sr Tracer	79		40 - 110	07/01/13 00:00	07/14/13 16:49	1

Client Sample ID: 125727_B7S7

Lab Sample ID: 440-27512-7

Date Collected: 10/23/12 09:40

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.8	2.5	ug/Kg			10/27/12 23:44	1
Styrene	ND		9.8	2.8	ug/Kg			10/27/12 23:44	1
cis-1,3-Dichloropropene	ND		9.8	2.2	ug/Kg			10/27/12 23:44	1
trans-1,3-Dichloropropene	ND		9.8	3.0	ug/Kg			10/27/12 23:44	1
N-Propylbenzene	ND		9.8	3.0	ug/Kg			10/27/12 23:44	1
n-Butylbenzene	ND		25	3.5	ug/Kg			10/27/12 23:44	1
4-Chlorotoluene	ND		25	3.6	ug/Kg			10/27/12 23:44	1
1,4-Dichlorobenzene	ND		9.8	4.6	ug/Kg			10/27/12 23:44	1
1,2-Dibromoethane (EDB)	ND		9.8	3.9	ug/Kg			10/27/12 23:44	1
1,2-Dichloroethane	ND		9.8	3.9	ug/Kg			10/27/12 23:44	1
4-Methyl-2-pentanone (MIBK)	ND		25	22	ug/Kg			10/27/12 23:44	1
1,3,5-Trimethylbenzene	ND		9.8	3.1	ug/Kg			10/27/12 23:44	1
Bromobenzene	ND		25	4.1	ug/Kg			10/27/12 23:44	1
Toluene	2.9	J	9.8	2.5	ug/Kg			10/27/12 23:44	1
Chlorobenzene	ND		9.8	2.5	ug/Kg			10/27/12 23:44	1
1,2,4-Trichlorobenzene	ND		25	4.9	ug/Kg			10/27/12 23:44	1
Dibromochloromethane	ND		9.8	3.4	ug/Kg			10/27/12 23:44	1
Tetrachloroethene	ND		9.8	2.4	ug/Kg			10/27/12 23:44	1
sec-Butylbenzene	ND		25	3.3	ug/Kg			10/27/12 23:44	1
m,p-Xylene	ND		9.8	3.9	ug/Kg			10/27/12 23:44	1
1,3-Dichloropropane	ND		9.8	3.1	ug/Kg			10/27/12 23:44	1
cis-1,2-Dichloroethene	ND		9.8	4.1	ug/Kg			10/27/12 23:44	1
trans-1,2-Dichloroethene	ND		9.8	3.4	ug/Kg			10/27/12 23:44	1
Methyl-t-Butyl Ether (MTBE)	ND		25	4.9	ug/Kg			10/27/12 23:44	1
1,3-Dichlorobenzene	ND		9.8	4.1	ug/Kg			10/27/12 23:44	1
Carbon tetrachloride	ND		25	2.5	ug/Kg			10/27/12 23:44	1
1,1-Dichloropropene	ND		9.8	2.0	ug/Kg			10/27/12 23:44	1
2-Hexanone	ND		120	45	ug/Kg			10/27/12 23:44	1
2,2-Dichloropropane	ND		9.8	2.9	ug/Kg			10/27/12 23:44	1
1,1,1,2-Tetrachloroethane	ND		25	2.8	ug/Kg			10/27/12 23:44	1
Acetone	ND		49	39	ug/Kg			10/27/12 23:44	1
Chloroform	ND		9.8	2.5	ug/Kg			10/27/12 23:44	1
Benzene	ND		9.8	2.5	ug/Kg			10/27/12 23:44	1
1,1,1-Trichloroethane	ND		9.8	3.4	ug/Kg			10/27/12 23:44	1
Bromomethane	ND		25	4.5	ug/Kg			10/27/12 23:44	1
Chloromethane	ND		25	4.9	ug/Kg			10/27/12 23:44	1
Dibromomethane	ND		9.8	4.4	ug/Kg			10/27/12 23:44	1
Bromochloromethane	ND		25	4.4	ug/Kg			10/27/12 23:44	1
Chloroethane	ND		25	7.4	ug/Kg			10/27/12 23:44	1
Vinyl chloride	ND		25	4.5	ug/Kg			10/27/12 23:44	1
Methylene Chloride	ND		98	32	ug/Kg			10/27/12 23:44	1
Carbon disulfide	ND		25	4.8	ug/Kg			10/27/12 23:44	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B7S7

Lab Sample ID: 440-27512-7

Date Collected: 10/23/12 09:40

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		25	3.9	ug/Kg			10/27/12 23:44	1
Bromodichloromethane	ND		9.8	2.5	ug/Kg			10/27/12 23:44	1
1,1-Dichloroethane	ND		9.8	2.5	ug/Kg			10/27/12 23:44	1
1,1-Dichloroethene	ND		25	2.9	ug/Kg			10/27/12 23:44	1
Trichlorofluoromethane	ND		25	2.6	ug/Kg			10/27/12 23:44	1
Dichlorodifluoromethane	ND		25	7.4	ug/Kg			10/27/12 23:44	1
1,2-Dichloropropane	ND		9.8	3.9	ug/Kg			10/27/12 23:44	1
2-Butanone (MEK)	ND		49	29	ug/Kg			10/27/12 23:44	1
1,1,2-Trichloroethane	ND		9.8	4.3	ug/Kg			10/27/12 23:44	1
Trichloroethene	ND		9.8	2.5	ug/Kg			10/27/12 23:44	1
1,1,2,2-Tetrachloroethane	ND		9.8	4.2	ug/Kg			10/27/12 23:44	1
1,2,3-Trichlorobenzene	ND		25	4.9	ug/Kg			10/27/12 23:44	1
Hexachlorobutadiene	ND		25	3.9	ug/Kg			10/27/12 23:44	1
Naphthalene	ND		25	5.4	ug/Kg			10/27/12 23:44	1
o-Xylene	ND		9.8	2.5	ug/Kg			10/27/12 23:44	1
2-Chlorotoluene	ND		25	4.3	ug/Kg			10/27/12 23:44	1
1,2-Dichlorobenzene	ND		9.8	4.7	ug/Kg			10/27/12 23:44	1
1,2,4-Trimethylbenzene	ND		9.8	3.8	ug/Kg			10/27/12 23:44	1
1,2-Dibromo-3-Chloropropane	ND		25	7.4	ug/Kg			10/27/12 23:44	1
1,2,3-Trichloropropane	ND		49	4.9	ug/Kg			10/27/12 23:44	1
tert-Butylbenzene	ND		25	3.0	ug/Kg			10/27/12 23:44	1
Isopropylbenzene	ND		9.8	2.6	ug/Kg			10/27/12 23:44	1
p-Isopropyltoluene	ND		9.8	3.5	ug/Kg			10/27/12 23:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	116		80 - 120		10/27/12 23:44	1
4-Bromofluorobenzene (Surr)	100		80 - 120		10/27/12 23:44	1
Dibromofluoromethane (Surr)	118		80 - 125		10/27/12 23:44	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 02:30	1
Aroclor 1221	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 02:30	1
Aroclor 1232	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 02:30	1
Aroclor 1242	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 02:30	1
Aroclor 1248	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 02:30	1
Aroclor 1254	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 02:30	1
Aroclor 1260	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 02:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	63		45 - 120	10/25/12 08:39	10/26/12 02:30	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.3	J	10	1.2	mg/Kg		10/26/12 14:32	10/30/12 00:03	5
Arsenic	11		2.0	0.82	mg/Kg		10/26/12 14:32	10/30/12 00:03	5
Barium	59		1.0	0.81	mg/Kg		10/26/12 14:32	10/30/12 00:03	5
Beryllium	0.80		0.51	0.20	mg/Kg		10/26/12 14:32	10/30/12 00:03	5
Cadmium	0.23	J	0.51	0.20	mg/Kg		10/26/12 14:32	10/30/12 00:03	5
Chromium	21		1.0	0.30	mg/Kg		10/26/12 14:32	10/30/12 00:03	5

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B7S7

Lab Sample ID: 440-27512-7

Date Collected: 10/23/12 09:40

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	3.1		1.0	0.30	mg/Kg		10/26/12 14:32	10/30/12 00:03	5
Copper	10		2.0	0.39	mg/Kg		10/26/12 14:32	10/30/12 00:03	5
Lead	6.4		2.0	0.51	mg/Kg		10/26/12 14:32	10/30/12 00:03	5
Molybdenum	1.7	J	2.0	0.20	mg/Kg		10/26/12 14:32	10/30/12 00:03	5
Nickel	12		2.0	0.20	mg/Kg		10/26/12 14:32	10/30/12 00:03	5
Selenium	ND		2.0	1.0	mg/Kg		10/26/12 14:32	10/30/12 00:03	5
Thallium	ND		10	0.81	mg/Kg		10/26/12 14:32	10/30/12 00:03	5
Vanadium	39		1.0	0.30	mg/Kg		10/26/12 14:32	10/30/12 00:03	5
Zinc	41		5.1	0.51	mg/Kg		10/26/12 14:32	10/30/12 00:03	5
Silver	ND		0.99	0.79	mg/Kg		10/30/12 14:58	10/30/12 21:43	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.020	0.012	mg/Kg		10/28/12 15:45	10/29/12 15:18	1

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Tritium	-0.09	U	0.19	0.19	0.36	pCi/g	11/15/12 00:00	11/19/12 16:31	1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Uranium 234	1.01		0.15	0.17	0.03	pCi/g	11/12/12 00:00	11/19/12 22:44	1
Uranium 235/236	0.049		0.037	0.037	0.019	pCi/g	11/12/12 00:00	11/19/12 22:44	1
Uranium 238	0.87		0.14	0.16	0.02	pCi/g	11/12/12 00:00	11/19/12 22:44	1
Tracer	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Uranium-232	60		30 - 110				11/12/12 00:00	11/19/12 22:44	1

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Actinium 228	1.53		0.09	0.18	0.13	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Antimony 125	0.160	J	0.034	0.038	0.065	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Barium 133	-0.002	U	0.019	0.019	0.033	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Cesium 134	0.021	J	0.020	0.020	0.021	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Cesium 137	0.020	J	0.015	0.015	0.019	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Cobalt 60	0.009	U	0.013	0.013	0.024	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Europium 152	0.002	U	0.046	0.046	0.077	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Europium 154	-0.05	U	0.11	0.11	0.18	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Europium 155	0.10	J	0.044	0.046	0.060	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Potassium 40	17.0		0.6	1.8	0.2	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Radium (226)	1.21		0.07	0.14	0.05	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Sodium 22	-0.007	U	0.019	0.019	0.033	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Thallium 208	0.491		0.036	0.062	0.029	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Thorium 232	1.53		0.09	0.18	0.13	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Thorium 234	0.66		0.21	0.22	0.34	pCi/g	10/30/12 00:00	11/20/12 10:32	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B7S7

Lab Sample ID: 440-27512-7

Date Collected: 10/23/12 09:40

Matrix: Solid

Date Received: 10/23/12 19:15

Percent Solids: 89

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD (Continued)

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Actinium 227	0.04	U	0.19	0.19	0.29	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Protactinium 231	0.35	U	0.71	0.72	1.2	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Other Detected									
			Count	Total					
			Uncert.	Uncert.					
Radionuclides	Result	Qualifier	(2.000σ+/-)	(2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Bismuth 212	1.20		0.20	0.24	0.19	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Bismuth 214	1.21		0.07	0.14	0.05	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Lead 212	1.54		0.05	0.21	0.04	pCi/g	10/30/12 00:00	11/20/12 10:32	1
Lead 214	1.27		0.06	0.14	0.06	pCi/g	10/30/12 00:00	11/20/12 10:32	1

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Strontium Total	-0.025	U	0.024	0.024	0.044	pCi/g	07/01/13 00:00	07/14/13 16:49	1
Tracer									
	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Sr Tracer	77		40 - 110				07/01/13 00:00	07/14/13 16:49	1

Client Sample ID: 125727_B5S8

Lab Sample ID: 440-27512-8

Date Collected: 10/23/12 11:20

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.6	2.4	ug/Kg			10/29/12 17:59	1
Styrene	ND		9.6	2.8	ug/Kg			10/29/12 17:59	1
cis-1,3-Dichloropropene	ND	*	9.6	2.1	ug/Kg			10/29/12 17:59	1
trans-1,3-Dichloropropene	ND	*	9.6	2.9	ug/Kg			10/29/12 17:59	1
N-Propylbenzene	ND		9.6	2.9	ug/Kg			10/29/12 17:59	1
n-Butylbenzene	ND		24	3.5	ug/Kg			10/29/12 17:59	1
4-Chlorotoluene	ND		24	3.6	ug/Kg			10/29/12 17:59	1
1,4-Dichlorobenzene	ND		9.6	4.5	ug/Kg			10/29/12 17:59	1
1,2-Dibromoethane (EDB)	ND		9.6	3.8	ug/Kg			10/29/12 17:59	1
1,2-Dichloroethane	ND		9.6	3.8	ug/Kg			10/29/12 17:59	1
4-Methyl-2-pentanone (MIBK)	ND		24	22	ug/Kg			10/29/12 17:59	1
1,3,5-Trimethylbenzene	ND		9.6	3.0	ug/Kg			10/29/12 17:59	1
Bromobenzene	ND		24	4.0	ug/Kg			10/29/12 17:59	1
Toluene	ND		9.6	2.4	ug/Kg			10/29/12 17:59	1
Chlorobenzene	ND		9.6	2.5	ug/Kg			10/29/12 17:59	1
1,2,4-Trichlorobenzene	ND		24	4.8	ug/Kg			10/29/12 17:59	1
Dibromochloromethane	ND	*	9.6	3.4	ug/Kg			10/29/12 17:59	1
Tetrachloroethene	ND		9.6	2.4	ug/Kg			10/29/12 17:59	1
sec-Butylbenzene	ND		24	3.2	ug/Kg			10/29/12 17:59	1
m,p-Xylene	ND		9.6	3.8	ug/Kg			10/29/12 17:59	1
1,3-Dichloropropane	ND		9.6	3.0	ug/Kg			10/29/12 17:59	1
cis-1,2-Dichloroethene	ND		9.6	4.0	ug/Kg			10/29/12 17:59	1
trans-1,2-Dichloroethene	ND		9.6	3.4	ug/Kg			10/29/12 17:59	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B5S8

Lab Sample ID: 440-27512-8

Date Collected: 10/23/12 11:20

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-t-Butyl Ether (MTBE)	ND		24	4.8	ug/Kg			10/29/12 17:59	1
1,3-Dichlorobenzene	ND		9.6	4.0	ug/Kg			10/29/12 17:59	1
Carbon tetrachloride	ND	*	24	2.4	ug/Kg			10/29/12 17:59	1
1,1-Dichloropropene	ND		9.6	1.9	ug/Kg			10/29/12 17:59	1
2-Hexanone	ND		120	44	ug/Kg			10/29/12 17:59	1
2,2-Dichloropropane	ND		9.6	2.9	ug/Kg			10/29/12 17:59	1
1,1,1,2-Tetrachloroethane	ND	*	24	2.7	ug/Kg			10/29/12 17:59	1
Acetone	ND		48	38	ug/Kg			10/29/12 17:59	1
Chloroform	ND		9.6	2.4	ug/Kg			10/29/12 17:59	1
Benzene	ND		9.6	2.4	ug/Kg			10/29/12 17:59	1
1,1,1-Trichloroethane	ND		9.6	3.4	ug/Kg			10/29/12 17:59	1
Bromomethane	ND		24	4.4	ug/Kg			10/29/12 17:59	1
Chloromethane	ND		24	4.8	ug/Kg			10/29/12 17:59	1
Dibromomethane	ND		9.6	4.3	ug/Kg			10/29/12 17:59	1
Bromochloromethane	ND		24	4.3	ug/Kg			10/29/12 17:59	1
Chloroethane	ND		24	7.2	ug/Kg			10/29/12 17:59	1
Vinyl chloride	ND		24	4.4	ug/Kg			10/29/12 17:59	1
Methylene Chloride	ND		96	31	ug/Kg			10/29/12 17:59	1
Carbon disulfide	ND		24	4.7	ug/Kg			10/29/12 17:59	1
Bromoform	ND		24	3.8	ug/Kg			10/29/12 17:59	1
Bromodichloromethane	ND		9.6	2.4	ug/Kg			10/29/12 17:59	1
1,1-Dichloroethane	ND		9.6	2.4	ug/Kg			10/29/12 17:59	1
1,1-Dichloroethene	ND		24	2.9	ug/Kg			10/29/12 17:59	1
Trichlorofluoromethane	ND		24	2.6	ug/Kg			10/29/12 17:59	1
Dichlorodifluoromethane	ND		24	7.2	ug/Kg			10/29/12 17:59	1
1,2-Dichloropropane	ND		9.6	3.8	ug/Kg			10/29/12 17:59	1
2-Butanone (MEK)	ND		48	29	ug/Kg			10/29/12 17:59	1
1,1,2-Trichloroethane	ND		9.6	4.2	ug/Kg			10/29/12 17:59	1
Trichloroethene	ND		9.6	2.4	ug/Kg			10/29/12 17:59	1
1,1,2,2-Tetrachloroethane	ND		9.6	4.1	ug/Kg			10/29/12 17:59	1
1,2,3-Trichlorobenzene	ND		24	4.8	ug/Kg			10/29/12 17:59	1
Hexachlorobutadiene	ND		24	3.8	ug/Kg			10/29/12 17:59	1
Naphthalene	ND		24	5.3	ug/Kg			10/29/12 17:59	1
o-Xylene	ND		9.6	2.4	ug/Kg			10/29/12 17:59	1
2-Chlorotoluene	ND		24	4.2	ug/Kg			10/29/12 17:59	1
1,2-Dichlorobenzene	ND		9.6	4.6	ug/Kg			10/29/12 17:59	1
1,2,4-Trimethylbenzene	ND		9.6	3.8	ug/Kg			10/29/12 17:59	1
1,2-Dibromo-3-Chloropropane	ND		24	7.2	ug/Kg			10/29/12 17:59	1
1,2,3-Trichloropropane	ND		48	4.8	ug/Kg			10/29/12 17:59	1
tert-Butylbenzene	ND		24	3.0	ug/Kg			10/29/12 17:59	1
Isopropylbenzene	ND		9.6	2.6	ug/Kg			10/29/12 17:59	1
p-Isopropyltoluene	ND		9.6	3.5	ug/Kg			10/29/12 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 120		10/29/12 17:59	1
4-Bromofluorobenzene (Surr)	104		80 - 120		10/29/12 17:59	1
Dibromofluoromethane (Surr)	117		80 - 125		10/29/12 17:59	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B5S8

Lab Sample ID: 440-27512-8

Date Collected: 10/23/12 11:20

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 02:59	1
Aroclor 1221	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 02:59	1
Aroclor 1232	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 02:59	1
Aroclor 1242	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 02:59	1
Aroclor 1248	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 02:59	1
Aroclor 1254	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 02:59	1
Aroclor 1260	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 02:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	67		45 - 120	10/25/12 08:39	10/26/12 02:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	1.2	mg/Kg		10/26/12 14:32	10/30/12 00:05	5
Arsenic	9.5		2.0	0.82	mg/Kg		10/26/12 14:32	10/30/12 00:05	5
Barium	72		1.0	0.81	mg/Kg		10/26/12 14:32	10/30/12 00:05	5
Beryllium	0.44	J	0.51	0.20	mg/Kg		10/26/12 14:32	10/30/12 00:05	5
Cadmium	0.48	J	0.51	0.20	mg/Kg		10/26/12 14:32	10/30/12 00:05	5
Chromium	16		1.0	0.30	mg/Kg		10/26/12 14:32	10/30/12 00:05	5
Cobalt	5.6		1.0	0.30	mg/Kg		10/26/12 14:32	10/30/12 00:05	5
Copper	79		2.0	0.39	mg/Kg		10/26/12 14:32	10/30/12 00:05	5
Lead	9.0		2.0	0.51	mg/Kg		10/26/12 14:32	10/30/12 00:05	5
Molybdenum	1.2	J	2.0	0.20	mg/Kg		10/26/12 14:32	10/30/12 00:05	5
Nickel	14		2.0	0.20	mg/Kg		10/26/12 14:32	10/30/12 00:05	5
Selenium	ND		2.0	1.0	mg/Kg		10/26/12 14:32	10/30/12 00:05	5
Thallium	ND		10	0.81	mg/Kg		10/26/12 14:32	10/30/12 00:05	5
Vanadium	28		1.0	0.30	mg/Kg		10/26/12 14:32	10/30/12 00:05	5
Zinc	150		5.1	0.51	mg/Kg		10/26/12 14:32	10/30/12 00:05	5
Silver	ND		0.98	0.78	mg/Kg		10/30/12 14:58	10/30/12 21:45	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.42		0.020	0.012	mg/Kg		10/28/12 15:45	10/29/12 15:25	1

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Tritium	-0.17	U	0.19	0.19	0.37	pCi/g	11/15/12 00:00	11/19/12 17:18	1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Uranium 234	0.75		0.11	0.13	0.01	pCi/g	11/12/12 00:00	11/19/12 22:44	1
Uranium 235/236	0.059		0.034	0.035	0.013	pCi/g	11/12/12 00:00	11/19/12 22:44	1
Uranium 238	0.70		0.11	0.12	0.02	pCi/g	11/12/12 00:00	11/19/12 22:44	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	85		30 - 110	11/12/12 00:00	11/19/12 22:44	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B5S8

Lab Sample ID: 440-27512-8

Date Collected: 10/23/12 11:20

Matrix: Solid

Date Received: 10/23/12 19:15

Percent Solids: 79

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Actinium 228	1.10		0.08	0.14	0.12	pCi/g	10/30/12 00:00	11/20/12 10:33	1
Antimony 125	0.104	J	0.028	0.030	0.066	pCi/g	10/30/12 00:00	11/20/12 10:33	1
Barium 133	-0.030	U	0.021	0.021	0.034	pCi/g	10/30/12 00:00	11/20/12 10:33	1
Cesium 134	0.0035	U	0.0061	0.0061	0.071	pCi/g	10/30/12 00:00	11/20/12 10:33	1
Cesium 137	-0.002	U	0.016	0.016	0.027	pCi/g	10/30/12 00:00	11/20/12 10:33	1
Cobalt 60	0.002	U	0.014	0.014	0.027	pCi/g	10/30/12 00:00	11/20/12 10:33	1
Europium 152	-0.022	U	0.043	0.043	0.071	pCi/g	10/30/12 00:00	11/20/12 10:33	1
Europium 154	-0.068	U	0.095	0.095	0.16	pCi/g	10/30/12 00:00	11/20/12 10:33	1
Europium 155	0.037	J	0.045	0.045	0.074	pCi/g	10/30/12 00:00	11/20/12 10:33	1
Potassium 40	20.2		0.6	2.1	0.3	pCi/g	10/30/12 00:00	11/20/12 10:33	1
Radium (226)	0.88	J	0.05	0.11	0.04	pCi/g	10/30/12 00:00	11/20/12 10:33	1
Sodium 22	-0.002	U	0.019	0.019	0.032	pCi/g	10/30/12 00:00	11/20/12 10:33	1
Thallium 208	0.375		0.032	0.051	0.027	pCi/g	10/30/12 00:00	11/20/12 10:33	1
Thorium 232	1.10		0.08	0.14	0.12	pCi/g	10/30/12 00:00	11/20/12 10:33	1
Thorium 234	1.15		0.24	0.27	0.30	pCi/g	10/30/12 00:00	11/20/12 10:33	1
Actinium 227	0.02	U	0.12	0.12	0.21	pCi/g	10/30/12 00:00	11/20/12 10:33	1
Protactinium 231	0.004	U	0.53	0.53	0.90	pCi/g	10/30/12 00:00	11/20/12 10:33	1

Other Detected Radionuclides	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Bismuth 212	0.85		0.16	0.19	0.15	pCi/g	10/30/12 00:00	11/20/12 10:33	1
Bismuth 214	0.88		0.05	0.11	0.04	pCi/g	10/30/12 00:00	11/20/12 10:33	1
Lead 212	1.04		0.05	0.14	0.05	pCi/g	10/30/12 00:00	11/20/12 10:33	1
Lead 214	0.95		0.05	0.11	0.05	pCi/g	10/30/12 00:00	11/20/12 10:33	1

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Strontium Total	-0.022	U	0.020	0.020	0.038	pCi/g	07/01/13 00:00	07/14/13 16:50	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Sr Tracer	82		40 - 110	07/01/13 00:00	07/14/13 16:50	1

Client Sample ID: 125727_B3S9

Lab Sample ID: 440-27512-9

Date Collected: 10/23/12 11:15

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.9	2.5	ug/Kg			10/29/12 18:26	1
Styrene	ND		9.9	2.9	ug/Kg			10/29/12 18:26	1
cis-1,3-Dichloropropene	ND	*	9.9	2.2	ug/Kg			10/29/12 18:26	1
trans-1,3-Dichloropropene	ND	*	9.9	3.0	ug/Kg			10/29/12 18:26	1
N-Propylbenzene	ND		9.9	3.0	ug/Kg			10/29/12 18:26	1
n-Butylbenzene	ND		25	3.6	ug/Kg			10/29/12 18:26	1
4-Chlorotoluene	ND		25	3.7	ug/Kg			10/29/12 18:26	1
1,4-Dichlorobenzene	ND		9.9	4.7	ug/Kg			10/29/12 18:26	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B3S9

Lab Sample ID: 440-27512-9

Date Collected: 10/23/12 11:15

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		9.9	4.0	ug/Kg			10/29/12 18:26	1
1,2-Dichloroethane	ND		9.9	4.0	ug/Kg			10/29/12 18:26	1
4-Methyl-2-pentanone (MIBK)	ND		25	22	ug/Kg			10/29/12 18:26	1
1,3,5-Trimethylbenzene	ND		9.9	3.1	ug/Kg			10/29/12 18:26	1
Bromobenzene	ND		25	4.2	ug/Kg			10/29/12 18:26	1
Toluene	ND		9.9	2.5	ug/Kg			10/29/12 18:26	1
Chlorobenzene	ND		9.9	2.6	ug/Kg			10/29/12 18:26	1
1,2,4-Trichlorobenzene	ND		25	5.0	ug/Kg			10/29/12 18:26	1
Dibromochloromethane	ND	*	9.9	3.5	ug/Kg			10/29/12 18:26	1
Tetrachloroethene	ND		9.9	2.4	ug/Kg			10/29/12 18:26	1
sec-Butylbenzene	ND		25	3.3	ug/Kg			10/29/12 18:26	1
m,p-Xylene	ND		9.9	4.0	ug/Kg			10/29/12 18:26	1
1,3-Dichloropropane	ND		9.9	3.1	ug/Kg			10/29/12 18:26	1
cis-1,2-Dichloroethene	ND		9.9	4.1	ug/Kg			10/29/12 18:26	1
trans-1,2-Dichloroethene	ND		9.9	3.5	ug/Kg			10/29/12 18:26	1
Methyl-t-Butyl Ether (MTBE)	ND		25	5.0	ug/Kg			10/29/12 18:26	1
1,3-Dichlorobenzene	ND		9.9	4.2	ug/Kg			10/29/12 18:26	1
Carbon tetrachloride	ND	*	25	2.5	ug/Kg			10/29/12 18:26	1
1,1-Dichloropropene	ND		9.9	2.0	ug/Kg			10/29/12 18:26	1
2-Hexanone	ND		120	45	ug/Kg			10/29/12 18:26	1
2,2-Dichloropropane	ND		9.9	3.0	ug/Kg			10/29/12 18:26	1
1,1,1,2-Tetrachloroethane	ND	*	25	2.8	ug/Kg			10/29/12 18:26	1
Acetone	ND		50	40	ug/Kg			10/29/12 18:26	1
Chloroform	ND		9.9	2.5	ug/Kg			10/29/12 18:26	1
Benzene	ND		9.9	2.5	ug/Kg			10/29/12 18:26	1
1,1,1-Trichloroethane	ND		9.9	3.5	ug/Kg			10/29/12 18:26	1
Bromomethane	ND		25	4.6	ug/Kg			10/29/12 18:26	1
Chloromethane	ND		25	5.0	ug/Kg			10/29/12 18:26	1
Dibromomethane	ND		9.9	4.5	ug/Kg			10/29/12 18:26	1
Bromochloromethane	ND		25	4.5	ug/Kg			10/29/12 18:26	1
Chloroethane	ND		25	7.4	ug/Kg			10/29/12 18:26	1
Vinyl chloride	ND		25	4.5	ug/Kg			10/29/12 18:26	1
Methylene Chloride	ND		99	32	ug/Kg			10/29/12 18:26	1
Carbon disulfide	ND		25	4.8	ug/Kg			10/29/12 18:26	1
Bromoform	ND		25	4.0	ug/Kg			10/29/12 18:26	1
Bromodichloromethane	ND		9.9	2.5	ug/Kg			10/29/12 18:26	1
1,1-Dichloroethane	ND		9.9	2.5	ug/Kg			10/29/12 18:26	1
1,1-Dichloroethene	ND		25	3.0	ug/Kg			10/29/12 18:26	1
Trichlorofluoromethane	ND		25	2.7	ug/Kg			10/29/12 18:26	1
Dichlorodifluoromethane	ND		25	7.4	ug/Kg			10/29/12 18:26	1
1,2-Dichloropropane	ND		9.9	4.0	ug/Kg			10/29/12 18:26	1
2-Butanone (MEK)	ND		50	30	ug/Kg			10/29/12 18:26	1
1,1,2-Trichloroethane	ND		9.9	4.3	ug/Kg			10/29/12 18:26	1
Trichloroethene	ND		9.9	2.5	ug/Kg			10/29/12 18:26	1
1,1,2,2-Tetrachloroethane	ND		9.9	4.3	ug/Kg			10/29/12 18:26	1
1,2,3-Trichlorobenzene	ND		25	5.0	ug/Kg			10/29/12 18:26	1
Hexachlorobutadiene	ND		25	4.0	ug/Kg			10/29/12 18:26	1
Naphthalene	ND		25	5.4	ug/Kg			10/29/12 18:26	1
o-Xylene	ND		9.9	2.5	ug/Kg			10/29/12 18:26	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B3S9

Lab Sample ID: 440-27512-9

Date Collected: 10/23/12 11:15

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		25	4.3	ug/Kg			10/29/12 18:26	1
1,2-Dichlorobenzene	ND		9.9	4.7	ug/Kg			10/29/12 18:26	1
1,2,4-Trimethylbenzene	ND		9.9	3.9	ug/Kg			10/29/12 18:26	1
1,2-Dibromo-3-Chloropropane	ND		25	7.4	ug/Kg			10/29/12 18:26	1
1,2,3-Trichloropropane	ND		50	5.0	ug/Kg			10/29/12 18:26	1
tert-Butylbenzene	ND		25	3.1	ug/Kg			10/29/12 18:26	1
Isopropylbenzene	ND		9.9	2.7	ug/Kg			10/29/12 18:26	1
p-Isopropyltoluene	ND		9.9	3.6	ug/Kg			10/29/12 18:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 120					10/29/12 18:26	1
4-Bromofluorobenzene (Surr)	103		80 - 120					10/29/12 18:26	1
Dibromofluoromethane (Surr)	122		80 - 125					10/29/12 18:26	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 03:28	1
Aroclor 1221	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 03:28	1
Aroclor 1232	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 03:28	1
Aroclor 1242	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 03:28	1
Aroclor 1248	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 03:28	1
Aroclor 1254	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 03:28	1
Aroclor 1260	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 03:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	60		45 - 120				10/25/12 08:39	10/26/12 03:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	1.2	mg/Kg		10/26/12 14:32	10/30/12 00:07	5
Arsenic	9.9		2.0	0.82	mg/Kg		10/26/12 14:32	10/30/12 00:07	5
Barium	77		1.0	0.81	mg/Kg		10/26/12 14:32	10/30/12 00:07	5
Beryllium	0.44 J		0.51	0.20	mg/Kg		10/26/12 14:32	10/30/12 00:07	5
Cadmium	0.30 J		0.51	0.20	mg/Kg		10/26/12 14:32	10/30/12 00:07	5
Chromium	15		1.0	0.30	mg/Kg		10/26/12 14:32	10/30/12 00:07	5
Cobalt	4.1		1.0	0.30	mg/Kg		10/26/12 14:32	10/30/12 00:07	5
Copper	9.5		2.0	0.38	mg/Kg		10/26/12 14:32	10/30/12 00:07	5
Lead	6.1		2.0	0.51	mg/Kg		10/26/12 14:32	10/30/12 00:07	5
Molybdenum	1.1 J		2.0	0.20	mg/Kg		10/26/12 14:32	10/30/12 00:07	5
Nickel	11		2.0	0.20	mg/Kg		10/26/12 14:32	10/30/12 00:07	5
Selenium	ND		2.0	1.0	mg/Kg		10/26/12 14:32	10/30/12 00:07	5
Thallium	ND		10	0.81	mg/Kg		10/26/12 14:32	10/30/12 00:07	5
Vanadium	27		1.0	0.30	mg/Kg		10/26/12 14:32	10/30/12 00:07	5
Zinc	55		5.1	0.51	mg/Kg		10/26/12 14:32	10/30/12 00:07	5
Silver	ND		0.99	0.79	mg/Kg		10/30/12 14:58	10/30/12 21:47	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.020	0.012	mg/Kg		10/28/12 15:45	10/29/12 15:28	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B3S9

Lab Sample ID: 440-27512-9

Date Collected: 10/23/12 11:15

Matrix: Solid

Date Received: 10/23/12 19:15

Percent Solids: 91

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Tritium	-0.07	U	0.19	0.19	0.36	pCi/g	11/15/12 00:00	11/19/12 18:05	1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Uranium 234	0.76		0.13	0.14	0.03	pCi/g	11/12/12 00:00	11/19/12 22:45	1
Uranium 235/236	0.026		0.026	0.026	0.017	pCi/g	11/12/12 00:00	11/19/12 22:45	1
Uranium 238	0.81		0.13	0.15	0.03	pCi/g	11/12/12 00:00	11/19/12 22:45	1
Tracer	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Uranium-232	61		30 - 110				11/12/12 00:00	11/19/12 22:45	1

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Actinium 228	1.05		0.07	0.13	0.12	pCi/g	10/30/12 00:00	11/20/12 10:34	1
Antimony 125	0.098	J	0.027	0.029	0.059	pCi/g	10/30/12 00:00	11/20/12 10:34	1
Barium 133	-0.01	U	0.015	0.015	0.025	pCi/g	10/30/12 00:00	11/20/12 10:34	1
Cesium 134	0.01	U	0.012	0.012	0.022	pCi/g	10/30/12 00:00	11/20/12 10:34	1
Cesium 137	0.006	U	0.014	0.014	0.023	pCi/g	10/30/12 00:00	11/20/12 10:34	1
Cobalt 60	-0.008	U	0.015	0.015	0.025	pCi/g	10/30/12 00:00	11/20/12 10:34	1
Europium 152	0.014	U	0.030	0.030	0.049	pCi/g	10/30/12 00:00	11/20/12 10:34	1
Europium 154	-0.058	U	0.092	0.092	0.15	pCi/g	10/30/12 00:00	11/20/12 10:34	1
Europium 155	0.039	J	0.041	0.041	0.068	pCi/g	10/30/12 00:00	11/20/12 10:34	1
Potassium 40	20.2		0.6	2.1	0.3	pCi/g	10/30/12 00:00	11/20/12 10:34	1
Radium (226)	0.82	J	0.05	0.10	0.04	pCi/g	10/30/12 00:00	11/20/12 10:34	1
Sodium 22	0.008	U	0.017	0.017	0.029	pCi/g	10/30/12 00:00	11/20/12 10:34	1
Thallium 208	0.352		0.027	0.046	0.023	pCi/g	10/30/12 00:00	11/20/12 10:34	1
Thorium 232	1.05		0.07	0.13	0.12	pCi/g	10/30/12 00:00	11/20/12 10:34	1
Thorium 234	1.28		0.24	0.28	0.30	pCi/g	10/30/12 00:00	11/20/12 10:34	1
Actinium 227	0.032	U	0.092	0.092	0.16	pCi/g	10/30/12 00:00	11/20/12 10:34	1
Protactinium 231	-0.19	U	0.65	0.65	1.1	pCi/g	10/30/12 00:00	11/20/12 10:34	1
Other Detected			Count	Total					
Radionuclides	Result	Qualifier	Uncert.	Uncert.	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2.000σ+/-)	(2.000σ+/-)					
Bismuth 212	0.85		0.14	0.17	0.14	pCi/g	10/30/12 00:00	11/20/12 10:34	1
Bismuth 214	0.82		0.05	0.10	0.04	pCi/g	10/30/12 00:00	11/20/12 10:34	1
Lead 212	1.08		0.04	0.14	0.04	pCi/g	10/30/12 00:00	11/20/12 10:34	1
Lead 214	0.84		0.05	0.10	0.05	pCi/g	10/30/12 00:00	11/20/12 10:34	1

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Strontium Total	0.005	U	0.025	0.025	0.043	pCi/g	07/01/13 00:00	07/14/13 16:50	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B3S9

Lab Sample ID: 440-27512-9

Date Collected: 10/23/12 11:15

Matrix: Solid

Date Received: 10/23/12 19:15

Percent Solids: 91

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Sr Tracer	77		40 - 110	07/01/13 00:00	07/14/13 16:50	1

Client Sample ID: 125727_B5S10

Lab Sample ID: 440-27512-10

Date Collected: 10/23/12 11:45

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		9.6	2.4	ug/Kg			10/29/12 11:32	1
Styrene	ND		9.6	2.8	ug/Kg			10/29/12 11:32	1
cis-1,3-Dichloropropene	ND	*	9.6	2.1	ug/Kg			10/29/12 11:32	1
trans-1,3-Dichloropropene	ND	*	9.6	2.9	ug/Kg			10/29/12 11:32	1
N-Propylbenzene	ND		9.6	2.9	ug/Kg			10/29/12 11:32	1
n-Butylbenzene	ND		24	3.5	ug/Kg			10/29/12 11:32	1
4-Chlorotoluene	ND		24	3.6	ug/Kg			10/29/12 11:32	1
1,4-Dichlorobenzene	ND		9.6	4.5	ug/Kg			10/29/12 11:32	1
1,2-Dibromoethane (EDB)	ND		9.6	3.8	ug/Kg			10/29/12 11:32	1
1,2-Dichloroethane	ND		9.6	3.8	ug/Kg			10/29/12 11:32	1
4-Methyl-2-pentanone (MIBK)	ND		24	22	ug/Kg			10/29/12 11:32	1
1,3,5-Trimethylbenzene	ND		9.6	3.0	ug/Kg			10/29/12 11:32	1
Bromobenzene	ND		24	4.0	ug/Kg			10/29/12 11:32	1
Toluene	ND		9.6	2.4	ug/Kg			10/29/12 11:32	1
Chlorobenzene	ND		9.6	2.5	ug/Kg			10/29/12 11:32	1
1,2,4-Trichlorobenzene	ND		24	4.8	ug/Kg			10/29/12 11:32	1
Dibromochloromethane	ND	*	9.6	3.4	ug/Kg			10/29/12 11:32	1
Tetrachloroethene	ND		9.6	2.4	ug/Kg			10/29/12 11:32	1
sec-Butylbenzene	ND		24	3.2	ug/Kg			10/29/12 11:32	1
m,p-Xylene	ND		9.6	3.8	ug/Kg			10/29/12 11:32	1
1,3-Dichloropropane	ND		9.6	3.0	ug/Kg			10/29/12 11:32	1
cis-1,2-Dichloroethene	ND		9.6	4.0	ug/Kg			10/29/12 11:32	1
trans-1,2-Dichloroethene	ND		9.6	3.4	ug/Kg			10/29/12 11:32	1
Methyl-t-Butyl Ether (MTBE)	ND		24	4.8	ug/Kg			10/29/12 11:32	1
1,3-Dichlorobenzene	ND		9.6	4.0	ug/Kg			10/29/12 11:32	1
Carbon tetrachloride	ND	*	24	2.4	ug/Kg			10/29/12 11:32	1
1,1-Dichloropropene	ND		9.6	1.9	ug/Kg			10/29/12 11:32	1
2-Hexanone	ND		120	44	ug/Kg			10/29/12 11:32	1
2,2-Dichloropropane	ND		9.6	2.9	ug/Kg			10/29/12 11:32	1
1,1,1,2-Tetrachloroethane	ND	*	24	2.7	ug/Kg			10/29/12 11:32	1
Acetone	ND		48	38	ug/Kg			10/29/12 11:32	1
Chloroform	ND		9.6	2.4	ug/Kg			10/29/12 11:32	1
Benzene	ND		9.6	2.4	ug/Kg			10/29/12 11:32	1
1,1,1-Trichloroethane	ND		9.6	3.4	ug/Kg			10/29/12 11:32	1
Bromomethane	ND		24	4.4	ug/Kg			10/29/12 11:32	1
Chloromethane	ND		24	4.8	ug/Kg			10/29/12 11:32	1
Dibromomethane	ND		9.6	4.3	ug/Kg			10/29/12 11:32	1
Bromochloromethane	ND		24	4.3	ug/Kg			10/29/12 11:32	1
Chloroethane	ND		24	7.2	ug/Kg			10/29/12 11:32	1
Vinyl chloride	ND		24	4.4	ug/Kg			10/29/12 11:32	1
Methylene Chloride	ND		96	31	ug/Kg			10/29/12 11:32	1
Carbon disulfide	ND		24	4.7	ug/Kg			10/29/12 11:32	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B5S10

Lab Sample ID: 440-27512-10

Date Collected: 10/23/12 11:45

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		24	3.8	ug/Kg			10/29/12 11:32	1
Bromodichloromethane	ND		9.6	2.4	ug/Kg			10/29/12 11:32	1
1,1-Dichloroethane	ND		9.6	2.4	ug/Kg			10/29/12 11:32	1
1,1-Dichloroethene	ND		24	2.9	ug/Kg			10/29/12 11:32	1
Trichlorofluoromethane	ND		24	2.6	ug/Kg			10/29/12 11:32	1
Dichlorodifluoromethane	ND		24	7.2	ug/Kg			10/29/12 11:32	1
1,2-Dichloropropane	ND		9.6	3.8	ug/Kg			10/29/12 11:32	1
2-Butanone (MEK)	ND		48	29	ug/Kg			10/29/12 11:32	1
1,1,2-Trichloroethane	ND		9.6	4.2	ug/Kg			10/29/12 11:32	1
Trichloroethene	ND		9.6	2.4	ug/Kg			10/29/12 11:32	1
1,1,1,2-Tetrachloroethane	ND		9.6	4.1	ug/Kg			10/29/12 11:32	1
1,2,3-Trichlorobenzene	7.1	J	24	4.8	ug/Kg			10/29/12 11:32	1
Hexachlorobutadiene	ND		24	3.8	ug/Kg			10/29/12 11:32	1
Naphthalene	11	J	24	5.3	ug/Kg			10/29/12 11:32	1
o-Xylene	ND		9.6	2.4	ug/Kg			10/29/12 11:32	1
2-Chlorotoluene	ND		24	4.2	ug/Kg			10/29/12 11:32	1
1,2-Dichlorobenzene	ND		9.6	4.6	ug/Kg			10/29/12 11:32	1
1,2,4-Trimethylbenzene	ND		9.6	3.8	ug/Kg			10/29/12 11:32	1
1,2-Dibromo-3-Chloropropane	ND		24	7.2	ug/Kg			10/29/12 11:32	1
1,2,3-Trichloropropane	ND		48	4.8	ug/Kg			10/29/12 11:32	1
tert-Butylbenzene	ND		24	3.0	ug/Kg			10/29/12 11:32	1
Isopropylbenzene	ND		9.6	2.6	ug/Kg			10/29/12 11:32	1
p-Isopropyltoluene	ND		9.6	3.5	ug/Kg			10/29/12 11:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 120		10/29/12 11:32	1
4-Bromofluorobenzene (Surr)	104		80 - 120		10/29/12 11:32	1
Dibromofluoromethane (Surr)	106		80 - 125		10/29/12 11:32	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 03:57	1
Aroclor 1221	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 03:57	1
Aroclor 1232	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 03:57	1
Aroclor 1242	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 03:57	1
Aroclor 1248	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 03:57	1
Aroclor 1254	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 03:57	1
Aroclor 1260	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 03:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	56		45 - 120	10/25/12 08:39	10/26/12 03:57	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.5	J	9.9	1.1	mg/Kg		10/26/12 14:32	10/30/12 00:14	5
Arsenic	12		2.0	0.80	mg/Kg		10/26/12 14:32	10/30/12 00:14	5
Barium	57		0.99	0.79	mg/Kg		10/26/12 14:32	10/30/12 00:14	5
Beryllium	0.53		0.50	0.20	mg/Kg		10/26/12 14:32	10/30/12 00:14	5
Cadmium	0.29	J	0.50	0.20	mg/Kg		10/26/12 14:32	10/30/12 00:14	5
Chromium	19		0.99	0.30	mg/Kg		10/26/12 14:32	10/30/12 00:14	5

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B5S10

Lab Sample ID: 440-27512-10

Date Collected: 10/23/12 11:45

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	4.9		0.99	0.30	mg/Kg		10/26/12 14:32	10/30/12 00:14	5
Copper	7.7		2.0	0.38	mg/Kg		10/26/12 14:32	10/30/12 00:14	5
Lead	4.0		2.0	0.50	mg/Kg		10/26/12 14:32	10/30/12 00:14	5
Molybdenum	1.3	J	2.0	0.20	mg/Kg		10/26/12 14:32	10/30/12 00:14	5
Nickel	12		2.0	0.20	mg/Kg		10/26/12 14:32	10/30/12 00:14	5
Selenium	ND		2.0	0.99	mg/Kg		10/26/12 14:32	10/30/12 00:14	5
Thallium	ND		9.9	0.79	mg/Kg		10/26/12 14:32	10/30/12 00:14	5
Vanadium	31		0.99	0.30	mg/Kg		10/26/12 14:32	10/30/12 00:14	5
Zinc	53		5.0	0.50	mg/Kg		10/26/12 14:32	10/30/12 00:14	5
Silver	ND		1.0	0.80	mg/Kg		10/30/12 14:58	10/30/12 21:49	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.020	0.012	mg/Kg		10/28/12 15:45	10/29/12 15:30	1

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Tritium	-0.17	U	0.18	0.18	0.36	pCi/g	11/15/12 00:00	11/19/12 18:29	1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Uranium 234	0.80		0.13	0.15	0.02	pCi/g	11/12/12 00:00	11/19/12 22:45	1
Uranium 235/236	0.014		0.019	0.019	0.018	pCi/g	11/12/12 00:00	11/19/12 22:45	1
Uranium 238	0.81		0.13	0.15	0.02	pCi/g	11/12/12 00:00	11/19/12 22:45	1
<i>Tracer</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Uranium-232	62		30 - 110				11/12/12 00:00	11/19/12 22:45	1

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Actinium 228	1.26		0.08	0.15	0.13	pCi/g	10/30/12 00:00	11/20/12 14:37	1
Antimony 125	0.103	J	0.026	0.028	0.066	pCi/g	10/30/12 00:00	11/20/12 14:37	1
Barium 133	-0.010	U	0.015	0.015	0.024	pCi/g	10/30/12 00:00	11/20/12 14:37	1
Cesium 134	0.0015	U	0.0011	0.0011	0.024	pCi/g	10/30/12 00:00	11/20/12 14:37	1
Cesium 137	0.006	U	0.015	0.015	0.025	pCi/g	10/30/12 00:00	11/20/12 14:37	1
Cobalt 60	0.008	U	0.014	0.014	0.023	pCi/g	10/30/12 00:00	11/20/12 14:37	1
Europium 152	0.01	U	0.035	0.035	0.067	pCi/g	10/30/12 00:00	11/20/12 14:37	1
Europium 154	0.030	U	0.038	0.038	0.14	pCi/g	10/30/12 00:00	11/20/12 14:37	1
Europium 155	0.059	J	0.047	0.047	0.061	pCi/g	10/30/12 00:00	11/20/12 14:37	1
Potassium 40	20.4		0.6	2.2	0.3	pCi/g	10/30/12 00:00	11/20/12 14:37	1
Radium (226)	0.87	J	0.05	0.10	0.05	pCi/g	10/30/12 00:00	11/20/12 14:37	1
Sodium 22	0.011	U	0.016	0.016	0.026	pCi/g	10/30/12 00:00	11/20/12 14:37	1
Thallium 208	0.387		0.026	0.048	0.023	pCi/g	10/30/12 00:00	11/20/12 14:37	1
Thorium 232	1.26		0.08	0.15	0.13	pCi/g	10/30/12 00:00	11/20/12 14:37	1
Thorium 234	1.39		0.26	0.30	0.32	pCi/g	10/30/12 00:00	11/20/12 14:37	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B5S10

Lab Sample ID: 440-27512-10

Date Collected: 10/23/12 11:45

Matrix: Solid

Date Received: 10/23/12 19:15

Percent Solids: 94.2

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD (Continued)

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Actinium 227	0.02	U	0.21	0.21	0.22	pCi/g	10/30/12 00:00	11/20/12 14:37	1
Protactinium 231	-0.12	U	0.45	0.45	0.75	pCi/g	10/30/12 00:00	11/20/12 14:37	1
Other Detected									
			Count	Total					
			Uncert.	Uncert.					
Radionuclides	Result	Qualifier	(2.000σ+/-)	(2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Bismuth 212	0.82		0.12	0.15	0.15	pCi/g	10/30/12 00:00	11/20/12 14:37	1
Bismuth 214	0.87		0.05	0.10	0.05	pCi/g	10/30/12 00:00	11/20/12 14:37	1
Lead 212	1.26		0.04	0.17	0.04	pCi/g	10/30/12 00:00	11/20/12 14:37	1
Lead 214	0.93		0.05	0.11	0.05	pCi/g	10/30/12 00:00	11/20/12 14:37	1

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Strontium Total	0.005	U	0.025	0.025	0.042	pCi/g	07/01/13 00:00	07/14/13 16:50	1
Tracer									
	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Sr Tracer	80		40 - 110				07/01/13 00:00	07/14/13 16:50	1

Client Sample ID: 125727_B7S11

Lab Sample ID: 440-27512-11

Date Collected: 10/23/12 10:37

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		10	2.5	ug/Kg			10/29/12 17:31	1
Styrene	ND		10	2.9	ug/Kg			10/29/12 17:31	1
cis-1,3-Dichloropropene	ND	*	10	2.2	ug/Kg			10/29/12 17:31	1
trans-1,3-Dichloropropene	ND	*	10	3.1	ug/Kg			10/29/12 17:31	1
N-Propylbenzene	ND		10	3.1	ug/Kg			10/29/12 17:31	1
n-Butylbenzene	ND		25	3.6	ug/Kg			10/29/12 17:31	1
4-Chlorotoluene	ND		25	3.7	ug/Kg			10/29/12 17:31	1
1,4-Dichlorobenzene	ND		10	4.7	ug/Kg			10/29/12 17:31	1
1,2-Dibromoethane (EDB)	ND		10	4.0	ug/Kg			10/29/12 17:31	1
1,2-Dichloroethane	ND		10	4.0	ug/Kg			10/29/12 17:31	1
4-Methyl-2-pentanone (MIBK)	ND		25	23	ug/Kg			10/29/12 17:31	1
1,3,5-Trimethylbenzene	ND		10	3.2	ug/Kg			10/29/12 17:31	1
Bromobenzene	ND		25	4.2	ug/Kg			10/29/12 17:31	1
Toluene	ND		10	2.5	ug/Kg			10/29/12 17:31	1
Chlorobenzene	ND		10	2.6	ug/Kg			10/29/12 17:31	1
1,2,4-Trichlorobenzene	ND		25	5.0	ug/Kg			10/29/12 17:31	1
Dibromochloromethane	ND	*	10	3.5	ug/Kg			10/29/12 17:31	1
Tetrachloroethene	ND		10	2.5	ug/Kg			10/29/12 17:31	1
sec-Butylbenzene	ND		25	3.4	ug/Kg			10/29/12 17:31	1
m,p-Xylene	ND		10	4.0	ug/Kg			10/29/12 17:31	1
1,3-Dichloropropane	ND		10	3.2	ug/Kg			10/29/12 17:31	1
cis-1,2-Dichloroethene	ND		10	4.2	ug/Kg			10/29/12 17:31	1
trans-1,2-Dichloroethene	ND		10	3.5	ug/Kg			10/29/12 17:31	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B7S11

Lab Sample ID: 440-27512-11

Date Collected: 10/23/12 10:37

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-t-Butyl Ether (MTBE)	ND		25	5.0	ug/Kg			10/29/12 17:31	1
1,3-Dichlorobenzene	ND		10	4.2	ug/Kg			10/29/12 17:31	1
Carbon tetrachloride	ND	*	25	2.5	ug/Kg			10/29/12 17:31	1
1,1-Dichloropropene	ND		10	2.0	ug/Kg			10/29/12 17:31	1
2-Hexanone	ND		130	46	ug/Kg			10/29/12 17:31	1
2,2-Dichloropropane	ND		10	3.0	ug/Kg			10/29/12 17:31	1
1,1,1,2-Tetrachloroethane	ND	*	25	2.9	ug/Kg			10/29/12 17:31	1
Acetone	ND		50	40	ug/Kg			10/29/12 17:31	1
Chloroform	ND		10	2.5	ug/Kg			10/29/12 17:31	1
Benzene	ND		10	2.5	ug/Kg			10/29/12 17:31	1
1,1,1-Trichloroethane	ND		10	3.5	ug/Kg			10/29/12 17:31	1
Bromomethane	ND		25	4.6	ug/Kg			10/29/12 17:31	1
Chloromethane	ND		25	5.0	ug/Kg			10/29/12 17:31	1
Dibromomethane	ND		10	4.5	ug/Kg			10/29/12 17:31	1
Bromochloromethane	ND		25	4.5	ug/Kg			10/29/12 17:31	1
Chloroethane	ND		25	7.5	ug/Kg			10/29/12 17:31	1
Vinyl chloride	ND		25	4.6	ug/Kg			10/29/12 17:31	1
Methylene Chloride	ND		100	33	ug/Kg			10/29/12 17:31	1
Carbon disulfide	ND		25	4.9	ug/Kg			10/29/12 17:31	1
Bromoform	ND		25	4.0	ug/Kg			10/29/12 17:31	1
Bromodichloromethane	ND		10	2.5	ug/Kg			10/29/12 17:31	1
1,1-Dichloroethane	ND		10	2.5	ug/Kg			10/29/12 17:31	1
1,1-Dichloroethene	ND		25	3.0	ug/Kg			10/29/12 17:31	1
Trichlorofluoromethane	ND		25	2.7	ug/Kg			10/29/12 17:31	1
Dichlorodifluoromethane	ND		25	7.5	ug/Kg			10/29/12 17:31	1
1,2-Dichloropropane	ND		10	4.0	ug/Kg			10/29/12 17:31	1
2-Butanone (MEK)	ND		50	30	ug/Kg			10/29/12 17:31	1
1,1,2-Trichloroethane	ND		10	4.4	ug/Kg			10/29/12 17:31	1
Trichloroethene	ND		10	2.5	ug/Kg			10/29/12 17:31	1
1,1,2,2-Tetrachloroethane	ND		10	4.3	ug/Kg			10/29/12 17:31	1
1,2,3-Trichlorobenzene	ND		25	5.0	ug/Kg			10/29/12 17:31	1
Hexachlorobutadiene	ND		25	4.0	ug/Kg			10/29/12 17:31	1
Naphthalene	ND		25	5.5	ug/Kg			10/29/12 17:31	1
o-Xylene	ND		10	2.5	ug/Kg			10/29/12 17:31	1
2-Chlorotoluene	ND		25	4.4	ug/Kg			10/29/12 17:31	1
1,2-Dichlorobenzene	ND		10	4.8	ug/Kg			10/29/12 17:31	1
1,2,4-Trimethylbenzene	ND		10	3.9	ug/Kg			10/29/12 17:31	1
1,2-Dibromo-3-Chloropropane	ND		25	7.5	ug/Kg			10/29/12 17:31	1
1,2,3-Trichloropropane	ND		50	5.0	ug/Kg			10/29/12 17:31	1
tert-Butylbenzene	ND		25	3.1	ug/Kg			10/29/12 17:31	1
Isopropylbenzene	ND		10	2.7	ug/Kg			10/29/12 17:31	1
p-Isopropyltoluene	ND		10	3.6	ug/Kg			10/29/12 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	108		80 - 120		10/29/12 17:31	1
4-Bromofluorobenzene (Surr)	105		80 - 120		10/29/12 17:31	1
Dibromofluoromethane (Surr)	121		80 - 125		10/29/12 17:31	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B7S11

Lab Sample ID: 440-27512-11

Date Collected: 10/23/12 10:37

Matrix: Solid

Date Received: 10/23/12 19:15

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 04:26	1
Aroclor 1221	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 04:26	1
Aroclor 1232	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 04:26	1
Aroclor 1242	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 04:26	1
Aroclor 1248	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 04:26	1
Aroclor 1254	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 04:26	1
Aroclor 1260	ND		50	12	ug/Kg		10/25/12 08:39	10/26/12 04:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	49		45 - 120	10/25/12 08:39	10/26/12 04:26	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.9	J	10	1.2	mg/Kg		10/26/12 14:32	10/30/12 00:16	5
Arsenic	12		2.0	0.81	mg/Kg		10/26/12 14:32	10/30/12 00:16	5
Barium	42		1.0	0.80	mg/Kg		10/26/12 14:32	10/30/12 00:16	5
Beryllium	0.65		0.50	0.20	mg/Kg		10/26/12 14:32	10/30/12 00:16	5
Cadmium	ND		0.50	0.20	mg/Kg		10/26/12 14:32	10/30/12 00:16	5
Chromium	19		1.0	0.30	mg/Kg		10/26/12 14:32	10/30/12 00:16	5
Cobalt	2.3		1.0	0.30	mg/Kg		10/26/12 14:32	10/30/12 00:16	5
Copper	7.4		2.0	0.38	mg/Kg		10/26/12 14:32	10/30/12 00:16	5
Lead	5.4		2.0	0.50	mg/Kg		10/26/12 14:32	10/30/12 00:16	5
Molybdenum	1.7	J	2.0	0.20	mg/Kg		10/26/12 14:32	10/30/12 00:16	5
Nickel	9.6		2.0	0.20	mg/Kg		10/26/12 14:32	10/30/12 00:16	5
Selenium	ND		2.0	1.0	mg/Kg		10/26/12 14:32	10/30/12 00:16	5
Thallium	ND		10	0.80	mg/Kg		10/26/12 14:32	10/30/12 00:16	5
Vanadium	38		1.0	0.30	mg/Kg		10/26/12 14:32	10/30/12 00:16	5
Zinc	35		5.0	0.50	mg/Kg		10/26/12 14:32	10/30/12 00:16	5
Silver	ND		1.0	0.80	mg/Kg		10/30/12 14:58	10/30/12 21:51	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.020	0.012	mg/Kg		10/28/12 15:45	10/29/12 15:33	1

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Tritium	-0.13	U	0.19	0.19	0.38	pCi/g	11/15/12 00:00	11/19/12 18:52	1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.					
			(2.000σ+/-)	(2.000σ+/-)					
Uranium 234	0.87		0.15	0.16	0.03	pCi/g	11/12/12 00:00	11/19/12 22:45	1
Uranium 235/236	0.053		0.041	0.042	0.035	pCi/g	11/12/12 00:00	11/19/12 22:45	1
Uranium 238	0.94		0.15	0.17	0.04	pCi/g	11/12/12 00:00	11/19/12 22:45	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Uranium-232	56		30 - 110	11/12/12 00:00	11/19/12 22:45	1

TestAmerica Irvine

Client Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B7S11

Lab Sample ID: 440-27512-11

Date Collected: 10/23/12 10:37

Matrix: Solid

Date Received: 10/23/12 19:15

Percent Solids: 90.5

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2.000σ+/-)	Uncert. (2.000σ+/-)					
Actinium 228	1.45		0.07	0.16	0.13	pCi/g	10/30/12 00:00	11/20/12 13:21	1
Antimony 125	0.178	J	0.036	0.040	0.074	pCi/g	10/30/12 00:00	11/20/12 13:21	1
Barium 133	-0.022	U	0.022	0.022	0.037	pCi/g	10/30/12 00:00	11/20/12 13:21	1
Cesium 134	0.022	U	0.021	0.021	0.073	pCi/g	10/30/12 00:00	11/20/12 13:21	1
Cesium 137	0.004	U	0.017	0.017	0.029	pCi/g	10/30/12 00:00	11/20/12 13:21	1
Cobalt 60	0.016	J	0.014	0.014	0.022	pCi/g	10/30/12 00:00	11/20/12 13:21	1
Europium 152	0.008	U	0.037	0.037	0.078	pCi/g	10/30/12 00:00	11/20/12 13:21	1
Europium 154	0.0061	U	0.0056	0.0057	0.17	pCi/g	10/30/12 00:00	11/20/12 13:21	1
Europium 155	0.093	J	0.054	0.055	0.067	pCi/g	10/30/12 00:00	11/20/12 13:21	1
Potassium 40	18.4		0.6	2.0	0.3	pCi/g	10/30/12 00:00	11/20/12 13:21	1
Radium (226)	1.23		0.07	0.14	0.05	pCi/g	10/30/12 00:00	11/20/12 13:21	1
Sodium 22	-0.006	U	0.020	0.020	0.033	pCi/g	10/30/12 00:00	11/20/12 13:21	1
Thallium 208	0.459		0.039	0.061	0.032	pCi/g	10/30/12 00:00	11/20/12 13:21	1
Thorium 232	1.45		0.07	0.16	0.13	pCi/g	10/30/12 00:00	11/20/12 13:21	1
Thorium 234	1.98		0.27	0.35	0.32	pCi/g	10/30/12 00:00	11/20/12 13:21	1
Actinium 227	0.020	U	0.068	0.068	0.29	pCi/g	10/30/12 00:00	11/20/12 13:21	1
Protactinium 231	0.39	U	0.71	0.71	1.2	pCi/g	10/30/12 00:00	11/20/12 13:21	1

Other Detected Radionuclides	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2.000σ+/-)	Uncert. (2.000σ+/-)					
Bismuth 212	1.02		0.17	0.20	0.17	pCi/g	10/30/12 00:00	11/20/12 13:21	1
Bismuth 214	1.23		0.07	0.14	0.05	pCi/g	10/30/12 00:00	11/20/12 13:21	1
Lead 212	1.44		0.05	0.19	0.05	pCi/g	10/30/12 00:00	11/20/12 13:21	1
Lead 214	1.23		0.06	0.14	0.06	pCi/g	10/30/12 00:00	11/20/12 13:21	1

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Analyte	Result	Qualifier	Count	Total	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2.000σ+/-)	Uncert. (2.000σ+/-)					
Strontium Total	-0.005	U	0.026	0.026	0.046	pCi/g	07/01/13 00:00	07/14/13 16:50	1

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Sr Tracer	82		40 - 110	07/01/13 00:00	07/14/13 16:50	1

Method Summary

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
7471A	Mercury (CVAA)	SW846	TAL IRV
160.3 MOD	Moisture, Percent (160.3)	MCAWW	TAL SL
906.0 MOD	TRITIUM (Distill) by EPA 906.0 MOD	EPA	TAL SL
A-01-R MOD	Iso URANIUM (LONG CT) DOE A-01-R MOD	EML	TAL SL
GA-01-R MOD	Gamma Ra-226 & Hits By EML GA-01-R MOD	EML	TAL SL
SR-03-RC MOD	Total Strontium by GFPC DOE SR-03-RC MOD	EML	TAL SL

Protocol References:

EML = "Environmental Measurements Laboratory Procedures Manual" HASL-300 27th Edition, Volume 1 US Department Of Energy (Revised February 1992)

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Lab Chronicle

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B1S1

Date Collected: 10/23/12 09:30

Date Received: 10/23/12 19:15

Lab Sample ID: 440-27512-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1.06 g	10 mL	62291	10/27/12 20:53	TN	TAL IRV
Total/NA	Prep	3546			15.00 g	2 mL	61664	10/25/12 08:39	AD	TAL IRV
Total/NA	Analysis	8082		1			61853	10/25/12 23:21	JM	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	62051	10/28/12 15:40	MM	TAL IRV
Total/NA	Analysis	7471A		1			62706	10/29/12 17:08	DB	TAL IRV
Total/NA	Prep	3050B			2.03 g	50 mL	62114	10/26/12 14:32	EN	TAL IRV
Total/NA	Analysis	6010B		5			62775	10/29/12 23:52	DT	TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	62905	10/30/12 14:58	DT	TAL IRV
Total/NA	Analysis	6010B		5			63094	10/30/12 21:28	DT	TAL IRV
Total	Analysis	160.3 MOD		1	0	0	2310013	11/06/12 00:00	SB	TAL SL
Total	Prep	Dry, Grind, and Fill Geometry -> 21 day in-growth			399.3 g	0	2304086_P	10/30/12 00:00	RS	TAL SL
Total	Analysis	GA-01-R MOD		1			2304086	11/20/12 09:51	EN	TAL SL
Total	Prep	Extraction Chromatography - Sequential Actinides			2.001 g	0	2317023_P	11/12/12 00:00	SM	TAL SL
Total	Analysis	A-01-R MOD		1			2317023	11/19/12 22:44	RM	TAL SL
Total	Prep	Distillation and Suspended in LSC Cocktail			30.01 g	0	2319013_P	11/15/12 00:00	NN	TAL SL
Total	Analysis	906.0 MOD		1			2319013	11/16/12 17:56	MJ	TAL SL
Total	Prep	Extraction Chromatography			2.5095 g	0	3182027_P	07/01/13 00:00	RS	TAL SL
Total	Analysis	SR-03-RC MOD		1			3182027	07/14/13 16:43	MJ	TAL SL

Client Sample ID: 125727_B1S2

Date Collected: 10/23/12 09:50

Date Received: 10/23/12 19:15

Lab Sample ID: 440-27512-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1.16 g	10 mL	62291	10/27/12 21:22	TN	TAL IRV
Total/NA	Prep	3546			15.05 g	2 mL	61664	10/25/12 08:39	AD	TAL IRV
Total/NA	Analysis	8082		1			61834	10/26/12 00:05	JM	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	62051	10/28/12 15:40	MM	TAL IRV
Total/NA	Analysis	7471A		1			62706	10/29/12 17:11	DB	TAL IRV
Total/NA	Prep	3050B			1.98 g	50 mL	62114	10/26/12 14:32	EN	TAL IRV
Total/NA	Analysis	6010B		5			62775	10/29/12 23:54	DT	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	62905	10/30/12 14:58	DT	TAL IRV
Total/NA	Analysis	6010B		5			63094	10/30/12 21:29	DT	TAL IRV
Total	Analysis	160.3 MOD		1	0	0	2310013	11/06/12 00:00	SB	TAL SL
Total	Prep	Dry, Grind, and Fill Geometry -> 21 day in-growth			406.4 g	0	2304086_P	10/30/12 00:00	RS	TAL SL
Total	Analysis	GA-01-R MOD		1			2304086	11/20/12 10:00	EN	TAL SL

TestAmerica Irvine

Lab Chronicle

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B1S2

Lab Sample ID: 440-27512-2

Date Collected: 10/23/12 09:50

Matrix: Solid

Date Received: 10/23/12 19:15

Percent Solids: 94.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Extraction Chromatography - Sequential Actinides			2.0052 g	0	2317023_P	11/12/12 00:00	SM	TAL SL
Total	Analysis	A-01-R MOD		1			2317023	11/19/12 22:44	RM	TAL SL
Total	Prep	Distillation and Suspended in LSC Cocktail			30.01 g	0	2319013_P	11/15/12 00:00	NN	TAL SL
Total	Analysis	906.0 MOD		1			2319013	11/16/12 18:43	MJ	TAL SL
Total	Prep	Extraction Chromatography			2.5091 g	0	3182027_P	07/01/13 00:00	RS	TAL SL
Total	Analysis	SR-03-RC MOD		1			3182027	07/14/13 16:49	MJ	TAL SL

Client Sample ID: 125727_B2S3

Lab Sample ID: 440-27512-3

Date Collected: 10/23/12 10:24

Matrix: Solid

Date Received: 10/23/12 19:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1.94 g	10 mL	62291	10/27/12 21:50	TN	TAL IRV
Total/NA	Prep	3546			15.00 g	2 mL	61664	10/25/12 08:39	AD	TAL IRV
Total/NA	Analysis	8082		1			61834	10/26/12 00:34	JM	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	62051	10/28/12 15:40	MM	TAL IRV
Total/NA	Analysis	7471A		1			62706	10/29/12 17:13	DB	TAL IRV
Total/NA	Prep	3050B			2.03 g	50 mL	62114	10/26/12 14:32	EN	TAL IRV
Total/NA	Analysis	6010B		5			62775	10/29/12 23:56	DT	TAL IRV
Total/NA	Prep	3050B			2.04 g	50 mL	62905	10/30/12 14:58	DT	TAL IRV
Total/NA	Analysis	6010B		5			63094	10/30/12 21:36	DT	TAL IRV
Total	Analysis	160.3 MOD		1	0	0	2310013	11/06/12 00:00	SB	TAL SL
Total	Prep	Dry, Grind, and Fill Geometry -> 21 day in-growth			400.4 g	0	2304086_P	10/30/12 00:00	RS	TAL SL
Total	Analysis	GA-01-R MOD		1			2304086	11/20/12 09:59	EN	TAL SL
Total	Prep	Extraction Chromatography - Sequential Actinides			2.0058 g	0	2317023_P	11/12/12 00:00	SM	TAL SL
Total	Analysis	A-01-R MOD		1			2317023	11/19/12 22:44	RM	TAL SL
Total	Prep	Distillation and Suspended in LSC Cocktail			30.47 g	0	2319013_P	11/15/12 00:00	NN	TAL SL
Total	Analysis	906.0 MOD		1			2319013	11/16/12 19:30	MJ	TAL SL
Total	Prep	Extraction Chromatography			2.5085 g	0	3182027_P	07/01/13 00:00	RS	TAL SL
Total	Analysis	SR-03-RC MOD		1			3182027	07/14/13 16:49	MJ	TAL SL

Lab Chronicle

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B2S4

Lab Sample ID: 440-27512-4

Date Collected: 10/23/12 13:00

Matrix: Solid

Date Received: 10/23/12 19:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1.7 g	10 mL	62291	10/27/12 22:18	TN	TAL IRV
Total/NA	Prep	3546			15.00 g	2 mL	61664	10/25/12 08:39	AD	TAL IRV
Total/NA	Analysis	8082		1			61834	10/26/12 01:03	JM	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	62051	10/28/12 15:40	MM	TAL IRV
Total/NA	Analysis	7471A		1			62706	10/29/12 17:16	DB	TAL IRV
Total/NA	Prep	3050B			1.97 g	50 mL	62114	10/26/12 14:32	EN	TAL IRV
Total/NA	Analysis	6010B		5			62775	10/29/12 23:58	DT	TAL IRV
Total/NA	Prep	3050B			1.98 g	50 mL	62905	10/30/12 14:58	DT	TAL IRV
Total/NA	Analysis	6010B		5			63094	10/30/12 21:38	DT	TAL IRV
Total	Analysis	160.3 MOD		1	0	0	2310013	11/06/12 00:00	SB	TAL SL
Total	Prep	Dry, Grind, and Fill Geometry -> 21 day in-growth			395.9 g	0	2304086_P	10/30/12 00:00	RS	TAL SL
Total	Analysis	GA-01-R MOD		1			2304086	11/20/12 10:30	EN	TAL SL
Total	Prep	Extraction Chromatography - Sequential Actinides			2.0074 g	0	2317023_P	11/12/12 00:00	SM	TAL SL
Total	Analysis	A-01-R MOD		1			2317023	11/19/12 22:44	RM	TAL SL
Total	Prep	Distillation and Suspended in LSC Cocktail			30.08 g	0	2319013_P	11/15/12 00:00	NN	TAL SL
Total	Analysis	906.0 MOD		1			2319013	11/16/12 19:54	MJ	TAL SL
Total	Prep	Extraction Chromatography			2.5007 g	0	3182027_P	07/01/13 00:00	RS	TAL SL
Total	Analysis	SR-03-RC MOD		1			3182027	07/14/13 16:49	MJ	TAL SL

Client Sample ID: 125727_B4S5

Lab Sample ID: 440-27512-5

Date Collected: 10/23/12 12:40

Matrix: Solid

Date Received: 10/23/12 19:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	2.48 g	10 mL	62291	10/27/12 22:47	TN	TAL IRV
Total/NA	Prep	3546			15.01 g	2 mL	61664	10/25/12 08:39	AD	TAL IRV
Total/NA	Analysis	8082		1			61834	10/26/12 01:32	JM	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	62051	10/28/12 15:40	MM	TAL IRV
Total/NA	Analysis	7471A		1			62706	10/29/12 17:23	DB	TAL IRV
Total/NA	Prep	3050B			2.04 g	50 mL	62114	10/26/12 14:32	EN	TAL IRV
Total/NA	Analysis	6010B		5			62775	10/29/12 23:59	DT	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	62905	10/30/12 14:58	DT	TAL IRV
Total/NA	Analysis	6010B		5			63094	10/30/12 21:40	DT	TAL IRV
Total	Analysis	160.3 MOD		1	0	0	2310013	11/06/12 00:00	SB	TAL SL
Total	Prep	Dry, Grind, and Fill Geometry -> 21 day in-growth			389.5 g	0	2304086_P	10/30/12 00:00	RS	TAL SL
Total	Analysis	GA-01-R MOD		1			2304086	11/20/12 10:31	EN	TAL SL

TestAmerica Irvine

Lab Chronicle

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B4S5

Lab Sample ID: 440-27512-5

Date Collected: 10/23/12 12:40

Matrix: Solid

Date Received: 10/23/12 19:15

Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Extraction Chromatography - Sequential Actinides			2.0137 g	0	2317023_P	11/12/12 00:00	SM	TAL SL
Total	Analysis	A-01-R MOD		1			2317023	11/19/12 22:44	RM	TAL SL
Total	Prep	Distillation and Suspended in LSC Cocktail			30.02 g	0	2319013_P	11/15/12 00:00	NN	TAL SL
Total	Analysis	906.0 MOD		1			2319013	11/16/12 20:17	MJ	TAL SL
Total	Prep	Extraction Chromatography			2.5021 g	0	3182027_P	07/01/13 00:00	RS	TAL SL
Total	Analysis	SR-03-RC MOD		1			3182027	07/14/13 16:49	MJ	TAL SL

Client Sample ID: 125727_B3S6

Lab Sample ID: 440-27512-6

Date Collected: 10/23/12 12:32

Matrix: Solid

Date Received: 10/23/12 19:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1.7 g	10 mL	62291	10/27/12 23:16	TN	TAL IRV
Total/NA	Prep	3546			15.00 g	2 mL	61664	10/25/12 08:39	AD	TAL IRV
Total/NA	Analysis	8082		1			61834	10/26/12 02:01	JM	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	62051	10/28/12 15:40	MM	TAL IRV
Total/NA	Analysis	7471A		1			62706	10/29/12 17:26	DB	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	62114	10/26/12 14:32	EN	TAL IRV
Total/NA	Analysis	6010B		5			62775	10/30/12 00:01	DT	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	62905	10/30/12 14:58	DT	TAL IRV
Total/NA	Analysis	6010B		5			63094	10/30/12 21:42	DT	TAL IRV
Total	Analysis	160.3 MOD		1	0	0	2310013	11/06/12 00:00	SB	TAL SL
Total	Prep	Dry, Grind, and Fill Geometry -> 21 day in-growth			388.8 g	0	2304086_P	10/30/12 00:00	RS	TAL SL
Total	Analysis	GA-01-R MOD		1			2304086	11/20/12 10:32	EN	TAL SL
Total	Prep	Extraction Chromatography - Sequential Actinides			2.0041 g	0	2317023_P	11/12/12 00:00	SM	TAL SL
Total	Analysis	A-01-R MOD		1			2317023	11/19/12 22:44	RM	TAL SL
Total	Prep	Distillation and Suspended in LSC Cocktail			30.2 g	0	2319013_P	11/15/12 00:00	NN	TAL SL
Total	Analysis	906.0 MOD		1			2319013	11/16/12 20:41	MJ	TAL SL
Total	Prep	Extraction Chromatography			2.5067 g	0	3182027_P	07/01/13 00:00	RS	TAL SL
Total	Analysis	SR-03-RC MOD		1			3182027	07/14/13 16:49	MJ	TAL SL

Lab Chronicle

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B7S7

Lab Sample ID: 440-27512-7

Date Collected: 10/23/12 09:40

Matrix: Solid

Date Received: 10/23/12 19:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1.02 g	10 mL	62291	10/27/12 23:44	TN	TAL IRV
Total/NA	Prep	3546			15.00 g	2 mL	61664	10/25/12 08:39	AD	TAL IRV
Total/NA	Analysis	8082		1			61834	10/26/12 02:30	JM	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	62052	10/28/12 15:45	MM	TAL IRV
Total/NA	Analysis	7471A		1			62684	10/29/12 15:18	DB	TAL IRV
Total/NA	Prep	3050B			1.97 g	50 mL	62114	10/26/12 14:32	EN	TAL IRV
Total/NA	Analysis	6010B		5			62775	10/30/12 00:03	DT	TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	62905	10/30/12 14:58	DT	TAL IRV
Total/NA	Analysis	6010B		5			63094	10/30/12 21:43	DT	TAL IRV
Total	Analysis	160.3 MOD		1	0	0	2310013	11/06/12 00:00	SB	TAL SL
Total	Prep	Dry, Grind, and Fill Geometry -> 21 day in-growth			362 g	0	2304086_P	10/30/12 00:00	RS	TAL SL
Total	Analysis	GA-01-R MOD		1			2304086	11/20/12 10:32	EN	TAL SL
Total	Prep	Extraction Chromatography - Sequential Actinides			2.0023 g	0	2317023_P	11/12/12 00:00	SM	TAL SL
Total	Analysis	A-01-R MOD		1			2317023	11/19/12 22:44	RM	TAL SL
Total	Prep	Distillation and Suspended in LSC Cocktail			30.04 g	0	2320015_P	11/15/12 00:00	NN	TAL SL
Total	Analysis	906.0 MOD		1			2320015	11/19/12 16:31	MJ	TAL SL
Total	Prep	Extraction Chromatography			2.5063 g	0	3182027_P	07/01/13 00:00	RS	TAL SL
Total	Analysis	SR-03-RC MOD		1			3182027	07/14/13 16:49	MJ	TAL SL

Client Sample ID: 125727_B5S8

Lab Sample ID: 440-27512-8

Date Collected: 10/23/12 11:20

Matrix: Solid

Date Received: 10/23/12 19:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1.04 g	10 mL	62405	10/29/12 17:59	CP	TAL IRV
Total/NA	Prep	3546			15.01 g	2 mL	61664	10/25/12 08:39	AD	TAL IRV
Total/NA	Analysis	8082		1			61834	10/26/12 02:59	JM	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	62052	10/28/12 15:45	MM	TAL IRV
Total/NA	Analysis	7471A		1			62684	10/29/12 15:25	DB	TAL IRV
Total/NA	Prep	3050B			1.97 g	50 mL	62114	10/26/12 14:32	EN	TAL IRV
Total/NA	Analysis	6010B		5			62775	10/30/12 00:05	DT	TAL IRV
Total/NA	Prep	3050B			2.04 g	50 mL	62905	10/30/12 14:58	DT	TAL IRV
Total/NA	Analysis	6010B		5			63094	10/30/12 21:45	DT	TAL IRV
Total	Analysis	160.3 MOD		1	0	0	2310013	11/06/12 00:00	SB	TAL SL
Total	Prep	Dry, Grind, and Fill Geometry -> 21 day in-growth			409.9 g	0	2304086_P	10/30/12 00:00	RS	TAL SL
Total	Analysis	GA-01-R MOD		1			2304086	11/20/12 10:33	EN	TAL SL

TestAmerica Irvine

Lab Chronicle

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B5S8

Lab Sample ID: 440-27512-8

Date Collected: 10/23/12 11:20

Matrix: Solid

Date Received: 10/23/12 19:15

Percent Solids: 79

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Extraction Chromatography - Sequential Actinides			2.0094 g	0	2317023_P	11/12/12 00:00	SM	TAL SL
Total	Analysis	A-01-R MOD		1			2317023	11/19/12 22:44	RM	TAL SL
Total	Prep	Distillation and Suspended in LSC Cocktail			30.13 g	0	2320015_P	11/15/12 00:00	NN	TAL SL
Total	Analysis	906.0 MOD		1			2320015	11/19/12 17:18	MJ	TAL SL
Total	Prep	Extraction Chromatography			2.5018 g	0	3182027_P	07/01/13 00:00	RS	TAL SL
Total	Analysis	SR-03-RC MOD		1			3182027	07/14/13 16:50	MJ	TAL SL

Client Sample ID: 125727_B3S9

Lab Sample ID: 440-27512-9

Date Collected: 10/23/12 11:15

Matrix: Solid

Date Received: 10/23/12 19:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1.01 g	10 mL	62405	10/29/12 18:26	CP	TAL IRV
Total/NA	Prep	3546			15.00 g	2 mL	61664	10/25/12 08:39	AD	TAL IRV
Total/NA	Analysis	8082		1			61834	10/26/12 03:28	JM	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	62052	10/28/12 15:45	MM	TAL IRV
Total/NA	Analysis	7471A		1			62684	10/29/12 15:28	DB	TAL IRV
Total/NA	Prep	3050B			1.98 g	50 mL	62114	10/26/12 14:32	EN	TAL IRV
Total/NA	Analysis	6010B		5			62775	10/30/12 00:07	DT	TAL IRV
Total/NA	Prep	3050B			2.03 g	50 mL	62905	10/30/12 14:58	DT	TAL IRV
Total/NA	Analysis	6010B		5			63094	10/30/12 21:47	DT	TAL IRV
Total	Analysis	160.3 MOD		1	0	0	2310013	11/06/12 00:00	SB	TAL SL
Total	Prep	Dry, Grind, and Fill Geometry -> 21 day in-growth			415.8 g	0	2304086_P	10/30/12 00:00	RS	TAL SL
Total	Analysis	GA-01-R MOD		1			2304086	11/20/12 10:34	EN	TAL SL
Total	Prep	Extraction Chromatography - Sequential Actinides			2.0086 g	0	2317023_P	11/12/12 00:00	SM	TAL SL
Total	Analysis	A-01-R MOD		1			2317023	11/19/12 22:45	RM	TAL SL
Total	Prep	Distillation and Suspended in LSC Cocktail			30.06 g	0	2320015_P	11/15/12 00:00	NN	TAL SL
Total	Analysis	906.0 MOD		1			2320015	11/19/12 18:05	MJ	TAL SL
Total	Prep	Extraction Chromatography			2.5041 g	0	3182027_P	07/01/13 00:00	RS	TAL SL
Total	Analysis	SR-03-RC MOD		1			3182027	07/14/13 16:50	MJ	TAL SL

TestAmerica Irvine

Lab Chronicle

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B5S10

Lab Sample ID: 440-27512-10

Date Collected: 10/23/12 11:45

Matrix: Solid

Date Received: 10/23/12 19:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1.04 g	10 mL	62405	10/29/12 11:32	CP	TAL IRV
Total/NA	Prep	3546			15.01 g	2 mL	61664	10/25/12 08:39	AD	TAL IRV
Total/NA	Analysis	8082		1			61834	10/26/12 03:57	JM	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	62052	10/28/12 15:45	MM	TAL IRV
Total/NA	Analysis	7471A		1			62684	10/29/12 15:30	DB	TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	62114	10/26/12 14:32	EN	TAL IRV
Total/NA	Analysis	6010B		5			62775	10/30/12 00:14	DT	TAL IRV
Total/NA	Prep	3050B			1.99 g	50 mL	62905	10/30/12 14:58	DT	TAL IRV
Total/NA	Analysis	6010B		5			63094	10/30/12 21:49	DT	TAL IRV
Total	Analysis	160.3 MOD		1	0	0	2310013	11/06/12 00:00	SB	TAL SL
Total	Prep	Dry, Grind, and Fill Geometry -> 21 day in-growth			374 g	0	2304086_P	10/30/12 00:00	RS	TAL SL
Total	Analysis	GA-01-R MOD		1			2304086	11/20/12 14:37	EN	TAL SL
Total	Prep	Extraction Chromatography - Sequential			2.011 g	0	2317023_P	11/12/12 00:00	SM	TAL SL
Total	Analysis	A-01-R MOD		1			2317023	11/19/12 22:45	RM	TAL SL
Total	Prep	Distillation and Suspended in LSC Cocktail			30.02 g	0	2320015_P	11/15/12 00:00	NN	TAL SL
Total	Analysis	906.0 MOD		1			2320015	11/19/12 18:29	MJ	TAL SL
Total	Prep	Extraction Chromatography			2.5034 g	0	3182027_P	07/01/13 00:00	RS	TAL SL
Total	Analysis	SR-03-RC MOD		1			3182027	07/14/13 16:50	MJ	TAL SL

Client Sample ID: 125727_B7S11

Lab Sample ID: 440-27512-11

Date Collected: 10/23/12 10:37

Matrix: Solid

Date Received: 10/23/12 19:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1 g	10 mL	62405	10/29/12 17:31	CP	TAL IRV
Total/NA	Prep	3546			15.00 g	2 mL	61664	10/25/12 08:39	AD	TAL IRV
Total/NA	Analysis	8082		1			61834	10/26/12 04:26	JM	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	62052	10/28/12 15:45	MM	TAL IRV
Total/NA	Analysis	7471A		1			62684	10/29/12 15:33	DB	TAL IRV
Total/NA	Prep	3050B			1.99 g	50 mL	62114	10/26/12 14:32	EN	TAL IRV
Total/NA	Analysis	6010B		5			62775	10/30/12 00:16	DT	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	62905	10/30/12 14:58	DT	TAL IRV
Total/NA	Analysis	6010B		5			63094	10/30/12 21:51	DT	TAL IRV
Total	Analysis	160.3 MOD		1	0	0	2310013	11/06/12 00:00	SB	TAL SL
Total	Prep	Dry, Grind, and Fill Geometry -> 21 day in-growth			352 g	0	2304086_P	10/30/12 00:00	RS	TAL SL
Total	Analysis	GA-01-R MOD		1			2304086	11/20/12 13:21	EN	TAL SL

TestAmerica Irvine

Lab Chronicle

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Client Sample ID: 125727_B7S11

Lab Sample ID: 440-27512-11

Date Collected: 10/23/12 10:37

Matrix: Solid

Date Received: 10/23/12 19:15

Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Extraction Chromatography - Sequential Actinides			2.0034 g	0	2317023_P	11/12/12 00:00	SM	TAL SL
Total	Analysis	A-01-R MOD		1			2317023	11/19/12 22:45	RM	TAL SL
Total	Prep	Distillation and Suspended in LSC Cocktail			30.1 g	0	2320015_P	11/15/12 00:00	NN	TAL SL
Total	Analysis	906.0 MOD		1			2320015	11/19/12 18:52	MJ	TAL SL
Total	Prep	Extraction Chromatography			2.5005 g	0	3182027_P	07/01/13 00:00	RS	TAL SL
Total	Analysis	SR-03-RC MOD		1			3182027	07/14/13 16:50	MJ	TAL SL

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022
 TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-62291/3

Matrix: Solid

Analysis Batch: 62291

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		2.0	0.50	ug/Kg			10/27/12 14:17	1
Styrene	ND		2.0	0.58	ug/Kg			10/27/12 14:17	1
cis-1,3-Dichloropropene	ND		2.0	0.44	ug/Kg			10/27/12 14:17	1
trans-1,3-Dichloropropene	ND		2.0	0.61	ug/Kg			10/27/12 14:17	1
N-Propylbenzene	ND		2.0	0.61	ug/Kg			10/27/12 14:17	1
n-Butylbenzene	ND		5.0	0.72	ug/Kg			10/27/12 14:17	1
4-Chlorotoluene	ND		5.0	0.74	ug/Kg			10/27/12 14:17	1
1,4-Dichlorobenzene	ND		2.0	0.94	ug/Kg			10/27/12 14:17	1
1,2-Dibromoethane (EDB)	ND		2.0	0.80	ug/Kg			10/27/12 14:17	1
1,2-Dichloroethane	ND		2.0	0.80	ug/Kg			10/27/12 14:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	4.5	ug/Kg			10/27/12 14:17	1
1,3,5-Trimethylbenzene	ND		2.0	0.63	ug/Kg			10/27/12 14:17	1
Bromobenzene	ND		5.0	0.84	ug/Kg			10/27/12 14:17	1
Toluene	ND		2.0	0.50	ug/Kg			10/27/12 14:17	1
Chlorobenzene	ND		2.0	0.52	ug/Kg			10/27/12 14:17	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			10/27/12 14:17	1
Dibromochloromethane	ND		2.0	0.70	ug/Kg			10/27/12 14:17	1
Tetrachloroethene	ND		2.0	0.49	ug/Kg			10/27/12 14:17	1
sec-Butylbenzene	ND		5.0	0.67	ug/Kg			10/27/12 14:17	1
m,p-Xylene	ND		2.0	0.80	ug/Kg			10/27/12 14:17	1
1,3-Dichloropropane	ND		2.0	0.63	ug/Kg			10/27/12 14:17	1
cis-1,2-Dichloroethene	ND		2.0	0.83	ug/Kg			10/27/12 14:17	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/Kg			10/27/12 14:17	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	1.0	ug/Kg			10/27/12 14:17	1
1,3-Dichlorobenzene	ND		2.0	0.84	ug/Kg			10/27/12 14:17	1
Carbon tetrachloride	ND		5.0	0.50	ug/Kg			10/27/12 14:17	1
1,1-Dichloropropene	ND		2.0	0.40	ug/Kg			10/27/12 14:17	1
2-Hexanone	ND		25	9.1	ug/Kg			10/27/12 14:17	1
2,2-Dichloropropane	ND		2.0	0.60	ug/Kg			10/27/12 14:17	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.57	ug/Kg			10/27/12 14:17	1
Acetone	ND		10	8.0	ug/Kg			10/27/12 14:17	1
Chloroform	ND		2.0	0.50	ug/Kg			10/27/12 14:17	1
Benzene	ND		2.0	0.50	ug/Kg			10/27/12 14:17	1
1,1,1-Trichloroethane	ND		2.0	0.70	ug/Kg			10/27/12 14:17	1
Bromomethane	ND		5.0	0.92	ug/Kg			10/27/12 14:17	1
Chloromethane	ND		5.0	1.0	ug/Kg			10/27/12 14:17	1
Dibromomethane	ND		2.0	0.90	ug/Kg			10/27/12 14:17	1
Bromochloromethane	ND		5.0	0.90	ug/Kg			10/27/12 14:17	1
Chloroethane	ND		5.0	1.5	ug/Kg			10/27/12 14:17	1
Vinyl chloride	ND		5.0	0.91	ug/Kg			10/27/12 14:17	1
Methylene Chloride	ND		20	6.5	ug/Kg			10/27/12 14:17	1
Carbon disulfide	ND		5.0	0.97	ug/Kg			10/27/12 14:17	1
Bromoform	ND		5.0	0.80	ug/Kg			10/27/12 14:17	1
Bromodichloromethane	ND		2.0	0.50	ug/Kg			10/27/12 14:17	1
1,1-Dichloroethane	ND		2.0	0.50	ug/Kg			10/27/12 14:17	1
1,1-Dichloroethene	ND		5.0	0.60	ug/Kg			10/27/12 14:17	1
Trichlorofluoromethane	ND		5.0	0.54	ug/Kg			10/27/12 14:17	1
Dichlorodifluoromethane	ND		5.0	1.5	ug/Kg			10/27/12 14:17	1

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-62291/3

Matrix: Solid

Analysis Batch: 62291

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		2.0	0.80	ug/Kg			10/27/12 14:17	1
2-Butanone (MEK)	ND		10	6.0	ug/Kg			10/27/12 14:17	1
1,1,2-Trichloroethane	ND		2.0	0.87	ug/Kg			10/27/12 14:17	1
Trichloroethene	ND		2.0	0.50	ug/Kg			10/27/12 14:17	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.86	ug/Kg			10/27/12 14:17	1
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/Kg			10/27/12 14:17	1
Hexachlorobutadiene	ND		5.0	0.80	ug/Kg			10/27/12 14:17	1
Naphthalene	ND		5.0	1.1	ug/Kg			10/27/12 14:17	1
o-Xylene	ND		2.0	0.50	ug/Kg			10/27/12 14:17	1
2-Chlorotoluene	ND		5.0	0.87	ug/Kg			10/27/12 14:17	1
1,2-Dichlorobenzene	ND		2.0	0.95	ug/Kg			10/27/12 14:17	1
1,2,4-Trimethylbenzene	ND		2.0	0.78	ug/Kg			10/27/12 14:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/Kg			10/27/12 14:17	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			10/27/12 14:17	1
tert-Butylbenzene	ND		5.0	0.62	ug/Kg			10/27/12 14:17	1
Isopropylbenzene	ND		2.0	0.54	ug/Kg			10/27/12 14:17	1
p-Isopropyltoluene	ND		2.0	0.72	ug/Kg			10/27/12 14:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		80 - 120		10/27/12 14:17	1
4-Bromofluorobenzene (Surr)	104		80 - 120		10/27/12 14:17	1
Dibromofluoromethane (Surr)	100		80 - 125		10/27/12 14:17	1

Lab Sample ID: LCS 440-62291/4

Matrix: Solid

Analysis Batch: 62291

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	50.0	52.1		ug/Kg		104	70 - 125
Styrene	50.0	56.5		ug/Kg		113	75 - 130
cis-1,3-Dichloropropene	50.0	61.9		ug/Kg		124	75 - 125
trans-1,3-Dichloropropene	50.0	55.7		ug/Kg		111	70 - 135
N-Propylbenzene	50.0	55.1		ug/Kg		110	70 - 130
n-Butylbenzene	50.0	56.7		ug/Kg		113	70 - 130
4-Chlorotoluene	50.0	53.7		ug/Kg		107	75 - 125
1,4-Dichlorobenzene	50.0	53.0		ug/Kg		106	75 - 120
1,2-Dibromoethane (EDB)	50.0	54.8		ug/Kg		110	70 - 130
1,2-Dichloroethane	50.0	51.3		ug/Kg		103	60 - 140
4-Methyl-2-pentanone (MIBK)	50.0	57.9		ug/Kg		116	40 - 145
1,3,5-Trimethylbenzene	50.0	56.0		ug/Kg		112	70 - 125
Bromobenzene	50.0	54.0		ug/Kg		108	75 - 120
Toluene	50.0	54.6		ug/Kg		109	70 - 125
Chlorobenzene	50.0	52.7		ug/Kg		105	75 - 120
1,2,4-Trichlorobenzene	50.0	51.7		ug/Kg		103	70 - 135
Dibromochloromethane	50.0	55.3		ug/Kg		111	65 - 140
Tetrachloroethene	50.0	51.2		ug/Kg		102	70 - 125
sec-Butylbenzene	50.0	56.6		ug/Kg		113	70 - 125
m,p-Xylene	100	106		ug/Kg		106	70 - 125

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-62291/4

Matrix: Solid

Analysis Batch: 62291

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	50.0	51.9		ug/Kg		104	70 - 125
cis-1,2-Dichloroethene	50.0	55.7		ug/Kg		111	70 - 125
trans-1,2-Dichloroethene	50.0	53.2		ug/Kg		106	70 - 125
Methyl-t-Butyl Ether (MTBE)	50.0	57.2		ug/Kg		114	60 - 140
1,3-Dichlorobenzene	50.0	52.9		ug/Kg		106	75 - 125
Carbon tetrachloride	50.0	54.2		ug/Kg		108	65 - 140
1,1-Dichloropropene	50.0	50.6		ug/Kg		101	70 - 130
2-Hexanone	50.0	60.1		ug/Kg		120	40 - 150
2,2-Dichloropropane	50.0	59.9		ug/Kg		120	60 - 145
1,1,1,2-Tetrachloroethane	50.0	53.5		ug/Kg		107	70 - 130
Acetone	50.0	59.5		ug/Kg		119	25 - 145
Chloroform	50.0	51.4		ug/Kg		103	70 - 130
Benzene	50.0	52.2		ug/Kg		104	65 - 120
1,1,1-Trichloroethane	50.0	54.0		ug/Kg		108	65 - 135
Bromomethane	50.0	58.8		ug/Kg		118	60 - 145
Chloromethane	50.0	50.2		ug/Kg		100	45 - 145
Dibromomethane	50.0	54.4		ug/Kg		109	70 - 130
Bromochloromethane	50.0	55.5		ug/Kg		111	70 - 135
Chloroethane	50.0	57.2		ug/Kg		114	60 - 140
Vinyl chloride	50.0	53.4		ug/Kg		107	55 - 135
Methylene Chloride	50.0	52.0		ug/Kg		104	55 - 135
Carbon disulfide	50.0	52.5		ug/Kg		105	50 - 130
Bromoform	50.0	49.8		ug/Kg		100	55 - 135
Bromodichloromethane	50.0	52.7		ug/Kg		105	70 - 135
1,1-Dichloroethane	50.0	53.4		ug/Kg		107	70 - 130
1,1-Dichloroethene	50.0	53.8		ug/Kg		108	70 - 125
Trichlorofluoromethane	50.0	58.3		ug/Kg		117	60 - 145
Dichlorodifluoromethane	50.0	48.2		ug/Kg		96	35 - 160
1,2-Dichloropropane	50.0	53.8		ug/Kg		108	70 - 130
2-Butanone (MEK)	50.0	58.7		ug/Kg		117	40 - 145
1,1,2-Trichloroethane	50.0	53.3		ug/Kg		107	65 - 135
Trichloroethene	50.0	53.0		ug/Kg		106	70 - 125
1,1,2,2-Tetrachloroethane	50.0	55.8		ug/Kg		112	55 - 140
1,2,3-Trichlorobenzene	50.0	58.6		ug/Kg		117	60 - 130
Hexachlorobutadiene	50.0	56.9		ug/Kg		114	60 - 135
Naphthalene	50.0	54.4		ug/Kg		109	55 - 135
o-Xylene	50.0	55.2		ug/Kg		110	70 - 125
2-Chlorotoluene	50.0	54.6		ug/Kg		109	70 - 125
1,2-Dichlorobenzene	50.0	55.1		ug/Kg		110	75 - 120
1,2,4-Trimethylbenzene	50.0	55.9		ug/Kg		112	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	54.9		ug/Kg		110	50 - 135
1,2,3-Trichloropropane	50.0	53.4		ug/Kg		107	60 - 135
tert-Butylbenzene	50.0	56.5		ug/Kg		113	70 - 125
Isopropylbenzene	50.0	58.9		ug/Kg		118	75 - 130
p-Isopropyltoluene	50.0	53.9		ug/Kg		108	75 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	107		80 - 120

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-62291/4

Matrix: Solid

Analysis Batch: 62291

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	108		80 - 125

Lab Sample ID: 440-27511-A-1 MS

Matrix: Solid

Analysis Batch: 62291

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				
Ethylbenzene	ND		154	169		ug/Kg		109	70 - 135
Styrene	ND		154	177		ug/Kg		115	70 - 140
cis-1,3-Dichloropropene	ND		154	200		ug/Kg		130	70 - 135
trans-1,3-Dichloropropene	ND		154	176		ug/Kg		114	60 - 145
N-Propylbenzene	ND		154	178		ug/Kg		115	65 - 140
n-Butylbenzene	ND		154	168		ug/Kg		109	55 - 145
4-Chlorotoluene	ND		154	173		ug/Kg		112	65 - 135
1,4-Dichlorobenzene	ND		154	167		ug/Kg		108	70 - 130
1,2-Dibromoethane (EDB)	ND		154	173		ug/Kg		112	65 - 140
1,2-Dichloroethane	ND		154	162		ug/Kg		105	60 - 150
4-Methyl-2-pentanone (MIBK)	ND		154	179		ug/Kg		116	40 - 155
1,3,5-Trimethylbenzene	ND		154	178		ug/Kg		116	65 - 135
Bromobenzene	ND		154	167		ug/Kg		108	65 - 140
Toluene	1.8	J	154	179		ug/Kg		115	70 - 130
Chlorobenzene	ND		154	165		ug/Kg		107	70 - 130
1,2,4-Trichlorobenzene	ND		154	160		ug/Kg		104	50 - 140
Dibromochloromethane	ND		154	175		ug/Kg		114	60 - 145
Tetrachloroethene	ND		154	168		ug/Kg		109	65 - 135
sec-Butylbenzene	ND		154	173		ug/Kg		112	60 - 135
m,p-Xylene	ND		309	348		ug/Kg		113	70 - 130
1,3-Dichloropropane	ND		154	171		ug/Kg		111	65 - 140
cis-1,2-Dichloroethene	ND		154	181		ug/Kg		117	65 - 135
trans-1,2-Dichloroethene	ND		154	178		ug/Kg		115	70 - 135
Methyl-t-Butyl Ether (MTBE)	ND		154	177		ug/Kg		115	55 - 155
1,3-Dichlorobenzene	ND		154	165		ug/Kg		107	70 - 130
Carbon tetrachloride	ND		154	173		ug/Kg		112	60 - 145
1,1-Dichloropropene	ND		154	168		ug/Kg		109	65 - 135
2-Hexanone	ND		154	185		ug/Kg		120	35 - 160
2,2-Dichloropropane	ND		154	202		ug/Kg		131	65 - 150
1,1,1,2-Tetrachloroethane	ND		154	174		ug/Kg		112	65 - 145
Acetone	ND		154	195		ug/Kg		126	20 - 145
Chloroform	ND		154	170		ug/Kg		110	65 - 135
Benzene	ND		154	173		ug/Kg		112	65 - 130
1,1,1-Trichloroethane	ND		154	179		ug/Kg		116	65 - 145
Bromomethane	ND		154	191		ug/Kg		124	60 - 155
Chloromethane	ND		154	167		ug/Kg		108	40 - 145
Dibromomethane	ND		154	172		ug/Kg		112	65 - 140
Bromochloromethane	ND		154	178		ug/Kg		115	65 - 145
Chloroethane	ND		154	185		ug/Kg		120	60 - 150
Vinyl chloride	ND		154	178		ug/Kg		115	55 - 140

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QC Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-27511-A-1 MS

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 62291

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Methylene Chloride	ND		154	172		ug/Kg		111	55 - 145
Carbon disulfide	ND		154	179		ug/Kg		116	40 - 140
Bromoform	ND		154	153		ug/Kg		99	50 - 145
Bromodichloromethane	ND		154	167		ug/Kg		108	65 - 145
1,1-Dichloroethane	ND		154	175		ug/Kg		113	65 - 135
1,1-Dichloroethene	ND		154	175		ug/Kg		113	65 - 135
Trichlorofluoromethane	ND		154	192		ug/Kg		125	55 - 155
Dichlorodifluoromethane	ND		154	161		ug/Kg		105	30 - 160
1,2-Dichloropropane	ND		154	178		ug/Kg		115	65 - 130
2-Butanone (MEK)	ND		154	184		ug/Kg		119	25 - 170
1,1,2-Trichloroethane	ND		154	169		ug/Kg		110	65 - 140
Trichloroethene	ND		154	177		ug/Kg		115	65 - 140
1,1,1,2-Tetrachloroethane	ND		154	164		ug/Kg		106	40 - 160
1,2,3-Trichlorobenzene	ND		154	188		ug/Kg		122	45 - 145
Hexachlorobutadiene	ND		154	175		ug/Kg		113	50 - 145
Naphthalene	ND		154	169		ug/Kg		109	40 - 150
o-Xylene	ND		154	172		ug/Kg		111	65 - 130
2-Chlorotoluene	ND		154	174		ug/Kg		113	60 - 135
1,2-Dichlorobenzene	ND		154	170		ug/Kg		110	70 - 130
1,2,4-Trimethylbenzene	ND		154	174		ug/Kg		113	65 - 140
1,2-Dibromo-3-Chloropropane	ND		154	165		ug/Kg		107	40 - 150
1,2,3-Trichloropropane	ND		154	167		ug/Kg		108	50 - 150
tert-Butylbenzene	ND		154	176		ug/Kg		114	60 - 140
Isopropylbenzene	ND		154	183		ug/Kg		119	70 - 145
p-Isopropyltoluene	ND		154	169		ug/Kg		110	60 - 140

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	108		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	111		80 - 125

Lab Sample ID: 440-27511-A-1 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 62291

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
Ethylbenzene	ND		172	183		ug/Kg		106	70 - 135	8	25
Styrene	ND		172	191		ug/Kg		111	70 - 140	8	25
cis-1,3-Dichloropropene	ND		172	226		ug/Kg		131	70 - 135	12	25
trans-1,3-Dichloropropene	ND		172	195		ug/Kg		113	60 - 145	10	25
N-Propylbenzene	ND		172	200		ug/Kg		116	65 - 140	12	25
n-Butylbenzene	ND		172	198		ug/Kg		115	55 - 145	16	30
4-Chlorotoluene	ND		172	198		ug/Kg		115	65 - 135	14	25
1,4-Dichlorobenzene	ND		172	184		ug/Kg		106	70 - 130	10	25
1,2-Dibromoethane (EDB)	ND		172	186		ug/Kg		108	65 - 140	7	25
1,2-Dichloroethane	ND		172	181		ug/Kg		105	60 - 150	11	25
4-Methyl-2-pentanone (MIBK)	ND		172	200		ug/Kg		116	40 - 155	11	40
1,3,5-Trimethylbenzene	ND		172	200		ug/Kg		116	65 - 135	12	25

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QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-27511-A-1 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 62291

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Bromobenzene	ND		172	192		ug/Kg		111	65 - 140	14	25
Toluene	1.8	J	172	198		ug/Kg		114	70 - 130	10	20
Chlorobenzene	ND		172	180		ug/Kg		104	70 - 130	9	25
1,2,4-Trichlorobenzene	ND		172	181		ug/Kg		105	50 - 140	12	30
Dibromochloromethane	ND		172	193		ug/Kg		112	60 - 145	9	25
Tetrachloroethene	ND		172	180		ug/Kg		104	65 - 135	7	25
sec-Butylbenzene	ND		172	202		ug/Kg		117	60 - 135	16	25
m,p-Xylene	ND		345	364		ug/Kg		106	70 - 130	4	25
1,3-Dichloropropane	ND		172	184		ug/Kg		107	65 - 140	7	25
cis-1,2-Dichloroethene	ND		172	202		ug/Kg		117	65 - 135	11	25
trans-1,2-Dichloroethene	ND		172	194		ug/Kg		112	70 - 135	9	25
Methyl-t-Butyl Ether (MTBE)	ND		172	202		ug/Kg		117	55 - 155	13	35
1,3-Dichlorobenzene	ND		172	195		ug/Kg		113	70 - 130	17	25
Carbon tetrachloride	ND		172	194		ug/Kg		113	60 - 145	11	25
1,1-Dichloropropene	ND		172	183		ug/Kg		106	65 - 135	9	20
2-Hexanone	ND		172	205		ug/Kg		119	35 - 160	10	40
2,2-Dichloropropane	ND		172	215		ug/Kg		125	65 - 150	6	25
1,1,1,2-Tetrachloroethane	ND		172	189		ug/Kg		109	65 - 145	8	20
Acetone	ND		172	219		ug/Kg		127	20 - 145	12	40
Chloroform	ND		172	189		ug/Kg		110	65 - 135	10	20
Benzene	ND		172	193		ug/Kg		112	65 - 130	11	20
1,1,1-Trichloroethane	ND		172	198		ug/Kg		115	65 - 145	10	20
Bromomethane	ND		172	216		ug/Kg		125	60 - 155	12	25
Chloromethane	ND		172	187		ug/Kg		108	40 - 145	11	25
Dibromomethane	ND		172	194		ug/Kg		113	65 - 140	12	25
Bromochloromethane	ND		172	200		ug/Kg		116	65 - 145	12	25
Chloroethane	ND		172	187		ug/Kg		109	60 - 150	1	25
Vinyl chloride	ND		172	192		ug/Kg		112	55 - 140	8	30
Methylene Chloride	ND		172	186		ug/Kg		108	55 - 145	8	25
Carbon disulfide	ND		172	191		ug/Kg		111	40 - 140	6	20
Bromoform	ND		172	165		ug/Kg		96	50 - 145	8	30
Bromodichloromethane	ND		172	187		ug/Kg		108	65 - 145	11	20
1,1-Dichloroethane	ND		172	194		ug/Kg		113	65 - 135	11	25
1,1-Dichloroethene	ND		172	197		ug/Kg		114	65 - 135	12	25
Trichlorofluoromethane	ND		172	210		ug/Kg		122	55 - 155	9	25
Dichlorodifluoromethane	ND		172	176		ug/Kg		102	30 - 160	9	35
1,2-Dichloropropane	ND		172	197		ug/Kg		115	65 - 130	10	20
2-Butanone (MEK)	ND		172	206		ug/Kg		119	25 - 170	11	40
1,1,2-Trichloroethane	ND		172	191		ug/Kg		111	65 - 140	12	30
Trichloroethene	ND		172	189		ug/Kg		109	65 - 140	6	25
1,1,2,2-Tetrachloroethane	ND		172	194		ug/Kg		113	40 - 160	17	30
1,2,3-Trichlorobenzene	ND		172	203		ug/Kg		118	45 - 145	8	30
Hexachlorobutadiene	ND		172	198		ug/Kg		115	50 - 145	12	35
Naphthalene	ND		172	194		ug/Kg		112	40 - 150	14	40
o-Xylene	ND		172	187		ug/Kg		109	65 - 130	9	25
2-Chlorotoluene	ND		172	192		ug/Kg		112	60 - 135	10	25
1,2-Dichlorobenzene	ND		172	191		ug/Kg		111	70 - 130	12	25
1,2,4-Trimethylbenzene	ND		172	198		ug/Kg		115	65 - 140	13	25

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-27511-A-1 MSD

Matrix: Solid

Analysis Batch: 62291

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	ND		172	186		ug/Kg		108	40 - 150	12	30
1,2,3-Trichloropropane	ND		172	193		ug/Kg		112	50 - 150	14	30
tert-Butylbenzene	ND		172	205		ug/Kg		119	60 - 140	15	25
Isopropylbenzene	ND		172	211		ug/Kg		122	70 - 145	14	25
p-Isopropyltoluene	ND		172	197		ug/Kg		114	60 - 140	15	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	109		80 - 120
4-Bromofluorobenzene (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	110		80 - 125

Lab Sample ID: MB 440-62405/4

Matrix: Solid

Analysis Batch: 62405

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		2.0	0.50	ug/Kg			10/29/12 09:12	1
Styrene	ND		2.0	0.58	ug/Kg			10/29/12 09:12	1
cis-1,3-Dichloropropene	ND		2.0	0.44	ug/Kg			10/29/12 09:12	1
trans-1,3-Dichloropropene	ND		2.0	0.61	ug/Kg			10/29/12 09:12	1
N-Propylbenzene	ND		2.0	0.61	ug/Kg			10/29/12 09:12	1
n-Butylbenzene	ND		5.0	0.72	ug/Kg			10/29/12 09:12	1
4-Chlorotoluene	ND		5.0	0.74	ug/Kg			10/29/12 09:12	1
1,4-Dichlorobenzene	ND		2.0	0.94	ug/Kg			10/29/12 09:12	1
1,2-Dibromoethane (EDB)	ND		2.0	0.80	ug/Kg			10/29/12 09:12	1
1,2-Dichloroethane	ND		2.0	0.80	ug/Kg			10/29/12 09:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	4.5	ug/Kg			10/29/12 09:12	1
1,3,5-Trimethylbenzene	ND		2.0	0.63	ug/Kg			10/29/12 09:12	1
Bromobenzene	ND		5.0	0.84	ug/Kg			10/29/12 09:12	1
Toluene	ND		2.0	0.50	ug/Kg			10/29/12 09:12	1
Chlorobenzene	ND		2.0	0.52	ug/Kg			10/29/12 09:12	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			10/29/12 09:12	1
Dibromochloromethane	ND		2.0	0.70	ug/Kg			10/29/12 09:12	1
Tetrachloroethene	ND		2.0	0.49	ug/Kg			10/29/12 09:12	1
sec-Butylbenzene	ND		5.0	0.67	ug/Kg			10/29/12 09:12	1
m,p-Xylene	ND		2.0	0.80	ug/Kg			10/29/12 09:12	1
1,3-Dichloropropane	ND		2.0	0.63	ug/Kg			10/29/12 09:12	1
cis-1,2-Dichloroethene	ND		2.0	0.83	ug/Kg			10/29/12 09:12	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/Kg			10/29/12 09:12	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	1.0	ug/Kg			10/29/12 09:12	1
1,3-Dichlorobenzene	ND		2.0	0.84	ug/Kg			10/29/12 09:12	1
Carbon tetrachloride	ND		5.0	0.50	ug/Kg			10/29/12 09:12	1
1,1-Dichloropropene	ND		2.0	0.40	ug/Kg			10/29/12 09:12	1
2-Hexanone	ND		25	9.1	ug/Kg			10/29/12 09:12	1
2,2-Dichloropropane	ND		2.0	0.60	ug/Kg			10/29/12 09:12	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.57	ug/Kg			10/29/12 09:12	1
Acetone	ND		10	8.0	ug/Kg			10/29/12 09:12	1
Chloroform	ND		2.0	0.50	ug/Kg			10/29/12 09:12	1

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-62405/4

Matrix: Solid

Analysis Batch: 62405

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		2.0	0.50	ug/Kg			10/29/12 09:12	1
1,1,1-Trichloroethane	ND		2.0	0.70	ug/Kg			10/29/12 09:12	1
Bromomethane	ND		5.0	0.92	ug/Kg			10/29/12 09:12	1
Chloromethane	ND		5.0	1.0	ug/Kg			10/29/12 09:12	1
Dibromomethane	ND		2.0	0.90	ug/Kg			10/29/12 09:12	1
Bromochloromethane	ND		5.0	0.90	ug/Kg			10/29/12 09:12	1
Chloroethane	ND		5.0	1.5	ug/Kg			10/29/12 09:12	1
Vinyl chloride	ND		5.0	0.91	ug/Kg			10/29/12 09:12	1
Methylene Chloride	ND		20	6.5	ug/Kg			10/29/12 09:12	1
Carbon disulfide	ND		5.0	0.97	ug/Kg			10/29/12 09:12	1
Bromoform	ND		5.0	0.80	ug/Kg			10/29/12 09:12	1
Bromodichloromethane	ND		2.0	0.50	ug/Kg			10/29/12 09:12	1
1,1-Dichloroethane	ND		2.0	0.50	ug/Kg			10/29/12 09:12	1
1,1-Dichloroethene	ND		5.0	0.60	ug/Kg			10/29/12 09:12	1
Trichlorofluoromethane	ND		5.0	0.54	ug/Kg			10/29/12 09:12	1
Dichlorodifluoromethane	ND		5.0	1.5	ug/Kg			10/29/12 09:12	1
1,2-Dichloropropane	ND		2.0	0.80	ug/Kg			10/29/12 09:12	1
2-Butanone (MEK)	ND		10	6.0	ug/Kg			10/29/12 09:12	1
1,1,2-Trichloroethane	ND		2.0	0.87	ug/Kg			10/29/12 09:12	1
Trichloroethene	ND		2.0	0.50	ug/Kg			10/29/12 09:12	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.86	ug/Kg			10/29/12 09:12	1
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/Kg			10/29/12 09:12	1
Hexachlorobutadiene	ND		5.0	0.80	ug/Kg			10/29/12 09:12	1
Naphthalene	ND		5.0	1.1	ug/Kg			10/29/12 09:12	1
o-Xylene	ND		2.0	0.50	ug/Kg			10/29/12 09:12	1
2-Chlorotoluene	ND		5.0	0.87	ug/Kg			10/29/12 09:12	1
1,2-Dichlorobenzene	ND		2.0	0.95	ug/Kg			10/29/12 09:12	1
1,2,4-Trimethylbenzene	ND		2.0	0.78	ug/Kg			10/29/12 09:12	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.5	ug/Kg			10/29/12 09:12	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			10/29/12 09:12	1
tert-Butylbenzene	ND		5.0	0.62	ug/Kg			10/29/12 09:12	1
Isopropylbenzene	ND		2.0	0.54	ug/Kg			10/29/12 09:12	1
p-Isopropyltoluene	ND		2.0	0.72	ug/Kg			10/29/12 09:12	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	109		80 - 120		10/29/12 09:12	1
4-Bromofluorobenzene (Surr)	105		80 - 120		10/29/12 09:12	1
Dibromofluoromethane (Surr)	109		80 - 125		10/29/12 09:12	1

Lab Sample ID: LCS 440-62405/14

Matrix: Solid

Analysis Batch: 62405

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Ethylbenzene	50.0	56.3		ug/Kg		113	70 - 125
Styrene	50.0	61.0		ug/Kg		122	75 - 130
cis-1,3-Dichloropropene	50.0	66.1	*	ug/Kg		132	75 - 125
trans-1,3-Dichloropropene	50.0	70.6	*	ug/Kg		141	70 - 135

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-62405/14

Matrix: Solid

Analysis Batch: 62405

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Propylbenzene	50.0	52.5		ug/Kg		105	70 - 130
n-Butylbenzene	50.0	53.6		ug/Kg		107	70 - 130
4-Chlorotoluene	50.0	54.8		ug/Kg		110	75 - 125
1,4-Dichlorobenzene	50.0	54.1		ug/Kg		108	75 - 120
1,2-Dibromoethane (EDB)	50.0	59.1		ug/Kg		118	70 - 130
1,2-Dichloroethane	50.0	63.2		ug/Kg		126	60 - 140
4-Methyl-2-pentanone (MIBK)	50.0	54.0		ug/Kg		108	40 - 145
1,3,5-Trimethylbenzene	50.0	55.6		ug/Kg		111	70 - 125
Bromobenzene	50.0	56.6		ug/Kg		113	75 - 120
Toluene	50.0	55.0		ug/Kg		110	70 - 125
Chlorobenzene	50.0	53.8		ug/Kg		108	75 - 120
1,2,4-Trichlorobenzene	50.0	54.7		ug/Kg		109	70 - 135
Dibromochloromethane	50.0	71.4	*	ug/Kg		143	65 - 140
Tetrachloroethene	50.0	60.5		ug/Kg		121	70 - 125
sec-Butylbenzene	50.0	52.7		ug/Kg		105	70 - 125
m,p-Xylene	100	110		ug/Kg		110	70 - 125
1,3-Dichloropropane	50.0	54.4		ug/Kg		109	70 - 125
cis-1,2-Dichloroethene	50.0	53.3		ug/Kg		107	70 - 125
trans-1,2-Dichloroethene	50.0	51.2		ug/Kg		102	70 - 125
Methyl-t-Butyl Ether (MTBE)	50.0	58.8		ug/Kg		118	60 - 140
1,3-Dichlorobenzene	50.0	56.7		ug/Kg		113	75 - 125
Carbon tetrachloride	50.0	72.2	*	ug/Kg		144	65 - 140
1,1-Dichloropropene	50.0	54.6		ug/Kg		109	70 - 130
2-Hexanone	50.0	51.9		ug/Kg		104	40 - 150
2,2-Dichloropropane	50.0	64.5		ug/Kg		129	60 - 145
1,1,1,2-Tetrachloroethane	50.0	68.4	*	ug/Kg		137	70 - 130
Acetone	50.0	46.0		ug/Kg		92	25 - 145
Chloroform	50.0	56.1		ug/Kg		112	70 - 130
Benzene	50.0	53.9		ug/Kg		108	65 - 120
1,1,1-Trichloroethane	50.0	62.4		ug/Kg		125	65 - 135
Bromomethane	50.0	64.0		ug/Kg		128	60 - 145
Chloromethane	50.0	50.0		ug/Kg		100	45 - 145
Dibromomethane	50.0	59.6		ug/Kg		119	70 - 130
Bromochloromethane	50.0	56.2		ug/Kg		112	70 - 135
Chloroethane	50.0	52.9		ug/Kg		106	60 - 140
Vinyl chloride	50.0	59.2		ug/Kg		118	55 - 135
Methylene Chloride	50.0	47.4		ug/Kg		95	55 - 135
Carbon disulfide	50.0	49.8		ug/Kg		100	50 - 130
Bromoform	50.0	60.9		ug/Kg		122	55 - 135
Bromodichloromethane	50.0	66.4		ug/Kg		133	70 - 135
1,1-Dichloroethane	50.0	51.7		ug/Kg		103	70 - 130
1,1-Dichloroethene	50.0	50.3		ug/Kg		101	70 - 125
Trichlorofluoromethane	50.0	66.3		ug/Kg		133	60 - 145
Dichlorodifluoromethane	50.0	56.6		ug/Kg		113	35 - 160
1,2-Dichloropropane	50.0	51.2		ug/Kg		102	70 - 130
2-Butanone (MEK)	50.0	49.0		ug/Kg		98	40 - 145
1,1,2-Trichloroethane	50.0	56.8		ug/Kg		114	65 - 135
Trichloroethene	50.0	58.0		ug/Kg		116	70 - 125

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-62405/14

Matrix: Solid

Analysis Batch: 62405

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	50.0	52.2		ug/Kg		104	55 - 140
1,2,3-Trichlorobenzene	50.0	49.9		ug/Kg		100	60 - 130
Hexachlorobutadiene	50.0	52.0		ug/Kg		104	60 - 135
Naphthalene	50.0	48.9		ug/Kg		98	55 - 135
o-Xylene	50.0	57.9		ug/Kg		116	70 - 125
2-Chlorotoluene	50.0	54.3		ug/Kg		109	70 - 125
1,2-Dichlorobenzene	50.0	54.7		ug/Kg		109	75 - 120
1,2,4-Trimethylbenzene	50.0	56.4		ug/Kg		113	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	54.7		ug/Kg		109	50 - 135
1,2,3-Trichloropropane	50.0	50.2		ug/Kg		100	60 - 135
tert-Butylbenzene	50.0	55.4		ug/Kg		111	70 - 125
Isopropylbenzene	50.0	53.1		ug/Kg		106	75 - 130
p-Isopropyltoluene	50.0	54.3		ug/Kg		109	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	108		80 - 120
4-Bromofluorobenzene (Surr)	105		80 - 120
Dibromofluoromethane (Surr)	109		80 - 125

Lab Sample ID: 440-27512-10 MS

Matrix: Solid

Analysis Batch: 62405

Client Sample ID: 125727_B5S10

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	ND		238	264		ug/Kg		111	70 - 135
Styrene	ND		238	276		ug/Kg		116	70 - 140
cis-1,3-Dichloropropene	ND	*	238	299		ug/Kg		125	70 - 135
trans-1,3-Dichloropropene	ND	*	238	318		ug/Kg		133	60 - 145
N-Propylbenzene	ND		238	251		ug/Kg		106	65 - 140
n-Butylbenzene	ND		238	252		ug/Kg		106	55 - 145
4-Chlorotoluene	ND		238	258		ug/Kg		108	65 - 135
1,4-Dichlorobenzene	ND		238	255		ug/Kg		107	70 - 130
1,2-Dibromoethane (EDB)	ND		238	272		ug/Kg		114	65 - 140
1,2-Dichloroethane	ND		238	289		ug/Kg		122	60 - 150
4-Methyl-2-pentanone (MIBK)	ND		238	227		ug/Kg		95	40 - 155
1,3,5-Trimethylbenzene	ND		238	269		ug/Kg		113	65 - 135
Bromobenzene	ND		238	263		ug/Kg		110	65 - 140
Toluene	ND		238	256		ug/Kg		107	70 - 130
Chlorobenzene	ND		238	251		ug/Kg		106	70 - 130
1,2,4-Trichlorobenzene	ND		238	250		ug/Kg		105	50 - 140
Dibromochloromethane	ND	*	238	325		ug/Kg		136	60 - 145
Tetrachloroethene	ND		238	285		ug/Kg		120	65 - 135
sec-Butylbenzene	ND		238	250		ug/Kg		105	60 - 135
m,p-Xylene	ND		476	518		ug/Kg		109	70 - 130
1,3-Dichloropropane	ND		238	254		ug/Kg		107	65 - 140
cis-1,2-Dichloroethene	ND		238	248		ug/Kg		104	65 - 135
trans-1,2-Dichloroethene	ND		238	241		ug/Kg		101	70 - 135
Methyl-t-Butyl Ether (MTBE)	ND		238	264		ug/Kg		111	55 - 155

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-27512-10 MS

Matrix: Solid

Analysis Batch: 62405

Client Sample ID: 125727_B5S10

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,3-Dichlorobenzene	ND		238	269		ug/Kg		113	70 - 130
Carbon tetrachloride	ND	*	238	343		ug/Kg		144	60 - 145
1,1-Dichloropropene	ND		238	252		ug/Kg		106	65 - 135
2-Hexanone	ND		238	220		ug/Kg		92	35 - 160
2,2-Dichloropropane	ND		238	312		ug/Kg		131	65 - 150
1,1,1,2-Tetrachloroethane	ND	*	238	316		ug/Kg		133	65 - 145
Acetone	ND		238	197		ug/Kg		83	20 - 145
Chloroform	ND		238	265		ug/Kg		111	65 - 135
Benzene	ND		238	248		ug/Kg		104	65 - 130
1,1,1-Trichloroethane	ND		238	294		ug/Kg		123	65 - 145
Bromomethane	ND		238	306		ug/Kg		129	60 - 155
Chloromethane	ND		238	226		ug/Kg		95	40 - 145
Dibromomethane	ND		238	272		ug/Kg		114	65 - 140
Bromochloromethane	ND		238	262		ug/Kg		110	65 - 145
Chloroethane	ND		238	274		ug/Kg		115	60 - 150
Vinyl chloride	ND		238	287		ug/Kg		120	55 - 140
Methylene Chloride	ND		238	223		ug/Kg		94	55 - 145
Carbon disulfide	ND		238	234		ug/Kg		98	40 - 140
Bromoform	ND		238	273		ug/Kg		115	50 - 145
Bromodichloromethane	ND		238	305		ug/Kg		128	65 - 145
1,1-Dichloroethane	ND		238	243		ug/Kg		102	65 - 135
1,1-Dichloroethene	ND		238	240		ug/Kg		101	65 - 135
Trichlorofluoromethane	ND		238	316		ug/Kg		133	55 - 155
Dichlorodifluoromethane	ND		238	273		ug/Kg		115	30 - 160
1,2-Dichloropropane	ND		238	232		ug/Kg		97	65 - 130
2-Butanone (MEK)	ND		238	212		ug/Kg		89	25 - 170
1,1,2-Trichloroethane	ND		238	250		ug/Kg		105	65 - 140
Trichloroethene	ND		238	276		ug/Kg		116	65 - 140
1,1,1,2-Tetrachloroethane	ND		238	237		ug/Kg		99	40 - 160
1,2,3-Trichlorobenzene	7.1	J	238	230		ug/Kg		94	45 - 145
Hexachlorobutadiene	ND		238	245		ug/Kg		103	50 - 145
Naphthalene	11	J	238	222		ug/Kg		88	40 - 150
o-Xylene	ND		238	271		ug/Kg		114	65 - 130
2-Chlorotoluene	ND		238	260		ug/Kg		109	60 - 135
1,2-Dichlorobenzene	ND		238	257		ug/Kg		108	70 - 130
1,2,4-Trimethylbenzene	ND		238	268		ug/Kg		113	65 - 140
1,2-Dibromo-3-Chloropropane	ND		238	245		ug/Kg		103	40 - 150
1,2,3-Trichloropropane	ND		238	231		ug/Kg		97	50 - 150
tert-Butylbenzene	ND		238	268		ug/Kg		113	60 - 140
Isopropylbenzene	ND		238	257		ug/Kg		108	70 - 145
p-Isopropyltoluene	ND		238	255		ug/Kg		107	60 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	106		80 - 120
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	109		80 - 125

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-27512-10 MSD

Matrix: Solid

Analysis Batch: 62405

Client Sample ID: 125727_B5S10

Prep Type: Total/NA

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD Limit
	Result			Result					Limits		
Ethylbenzene	ND		238	262		ug/Kg		110	70 - 135	1	25
Styrene	ND		238	280		ug/Kg		118	70 - 140	2	25
cis-1,3-Dichloropropene	ND	*	238	301		ug/Kg		126	70 - 135	1	25
trans-1,3-Dichloropropene	ND	*	238	328		ug/Kg		138	60 - 145	3	25
N-Propylbenzene	ND		238	247		ug/Kg		104	65 - 140	2	25
n-Butylbenzene	ND		238	246		ug/Kg		104	55 - 145	2	30
4-Chlorotoluene	ND		238	255		ug/Kg		107	65 - 135	1	25
1,4-Dichlorobenzene	ND		238	253		ug/Kg		106	70 - 130	1	25
1,2-Dibromoethane (EDB)	ND		238	280		ug/Kg		118	65 - 140	3	25
1,2-Dichloroethane	ND		238	294		ug/Kg		123	60 - 150	1	25
4-Methyl-2-pentanone (MIBK)	ND		238	247		ug/Kg		104	40 - 155	8	40
1,3,5-Trimethylbenzene	ND		238	263		ug/Kg		110	65 - 135	2	25
Bromobenzene	ND		238	268		ug/Kg		113	65 - 140	2	25
Toluene	ND		238	254		ug/Kg		107	70 - 130	1	20
Chlorobenzene	ND		238	252		ug/Kg		106	70 - 130	0	25
1,2,4-Trichlorobenzene	ND		238	257		ug/Kg		108	50 - 140	3	30
Dibromochloromethane	ND	*	238	330		ug/Kg		139	60 - 145	2	25
Tetrachloroethene	ND		238	279		ug/Kg		117	65 - 135	2	25
sec-Butylbenzene	ND		238	246		ug/Kg		103	60 - 135	2	25
m,p-Xylene	ND		476	513		ug/Kg		108	70 - 130	1	25
1,3-Dichloropropane	ND		238	255		ug/Kg		107	65 - 140	0	25
cis-1,2-Dichloroethene	ND		238	249		ug/Kg		105	65 - 135	0	25
trans-1,2-Dichloroethene	ND		238	235		ug/Kg		99	70 - 135	3	25
Methyl-t-Butyl Ether (MTBE)	ND		238	274		ug/Kg		115	55 - 155	4	35
1,3-Dichlorobenzene	ND		238	268		ug/Kg		113	70 - 130	0	25
Carbon tetrachloride	ND	*	238	334		ug/Kg		140	60 - 145	3	25
1,1-Dichloropropene	ND		238	248		ug/Kg		104	65 - 135	2	20
2-Hexanone	ND		238	235		ug/Kg		99	35 - 160	6	40
2,2-Dichloropropane	ND		238	300		ug/Kg		126	65 - 150	4	25
1,1,1,2-Tetrachloroethane	ND	*	238	327		ug/Kg		137	65 - 145	3	20
Acetone	ND		238	210		ug/Kg		88	20 - 145	7	40
Chloroform	ND		238	265		ug/Kg		111	65 - 135	0	20
Benzene	ND		238	250		ug/Kg		105	65 - 130	1	20
1,1,1-Trichloroethane	ND		238	290		ug/Kg		122	65 - 145	1	20
Bromomethane	ND		238	299		ug/Kg		126	60 - 155	2	25
Chloromethane	ND		238	227		ug/Kg		95	40 - 145	0	25
Dibromomethane	ND		238	274		ug/Kg		115	65 - 140	1	25
Bromochloromethane	ND		238	266		ug/Kg		112	65 - 145	2	25
Chloroethane	ND		238	240		ug/Kg		101	60 - 150	13	25
Vinyl chloride	ND		238	283		ug/Kg		119	55 - 140	1	30
Methylene Chloride	ND		238	228		ug/Kg		96	55 - 145	2	25
Carbon disulfide	ND		238	232		ug/Kg		98	40 - 140	1	20
Bromoform	ND		238	281		ug/Kg		118	50 - 145	3	30
Bromodichloromethane	ND		238	309		ug/Kg		130	65 - 145	1	20
1,1-Dichloroethane	ND		238	245		ug/Kg		103	65 - 135	1	25
1,1-Dichloroethene	ND		238	235		ug/Kg		99	65 - 135	2	25
Trichlorofluoromethane	ND		238	311		ug/Kg		131	55 - 155	1	25
Dichlorodifluoromethane	ND		238	265		ug/Kg		111	30 - 160	3	35

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-27512-10 MSD

Matrix: Solid

Analysis Batch: 62405

Client Sample ID: 125727_B5S10

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
1,2-Dichloropropane	ND		238	234		ug/Kg		98	65 - 130	1	20
2-Butanone (MEK)	ND		238	224		ug/Kg		94	25 - 170	5	40
1,1,1,2-Trichloroethane	ND		238	256		ug/Kg		108	65 - 140	2	30
Trichloroethene	ND		238	267		ug/Kg		112	65 - 140	3	25
1,1,1,2,2-Tetrachloroethane	ND		238	246		ug/Kg		103	40 - 160	4	30
1,2,3-Trichlorobenzene	7.1	J	238	242		ug/Kg		99	45 - 145	5	30
Hexachlorobutadiene	ND		238	243		ug/Kg		102	50 - 145	1	35
Naphthalene	11	J	238	246		ug/Kg		98	40 - 150	10	40
o-Xylene	ND		238	270		ug/Kg		113	65 - 130	0	25
2-Chlorotoluene	ND		238	256		ug/Kg		108	60 - 135	2	25
1,2-Dichlorobenzene	ND		238	261		ug/Kg		109	70 - 130	1	25
1,2,4-Trimethylbenzene	ND		238	268		ug/Kg		112	65 - 140	0	25
1,2-Dibromo-3-Chloropropane	ND		238	271		ug/Kg		114	40 - 150	10	30
1,2,3-Trichloropropane	ND		238	239		ug/Kg		100	50 - 150	3	30
tert-Butylbenzene	ND		238	264		ug/Kg		111	60 - 140	1	25
Isopropylbenzene	ND		238	252		ug/Kg		106	70 - 145	2	25
p-Isopropyltoluene	ND		238	254		ug/Kg		107	60 - 140	0	25

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	109		80 - 120
4-Bromofluorobenzene (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	111		80 - 125

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-61664/1-A

Matrix: Solid

Analysis Batch: 61853

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 61664

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aroclor 1016	ND		50	12	ug/Kg		10/25/12 08:39	10/25/12 22:21	1
Aroclor 1221	ND		50	12	ug/Kg		10/25/12 08:39	10/25/12 22:21	1
Aroclor 1232	ND		50	12	ug/Kg		10/25/12 08:39	10/25/12 22:21	1
Aroclor 1242	ND		50	12	ug/Kg		10/25/12 08:39	10/25/12 22:21	1
Aroclor 1248	ND		50	12	ug/Kg		10/25/12 08:39	10/25/12 22:21	1
Aroclor 1254	ND		50	12	ug/Kg		10/25/12 08:39	10/25/12 22:21	1
Aroclor 1260	ND		50	12	ug/Kg		10/25/12 08:39	10/25/12 22:21	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl (Surr)	82		45 - 120	10/25/12 08:39	10/25/12 22:21	1

Lab Sample ID: LCS 440-61664/2-A

Matrix: Solid

Analysis Batch: 61853

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 61664

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Aroclor 1016	267	222		ug/Kg		83	65 - 115

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 440-61664/2-A
Matrix: Solid
Analysis Batch: 61853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 61664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1260	267	231		ug/Kg		86	65 - 115
Surrogate		%Recovery	Qualifier				Limits
DCB Decachlorobiphenyl (Surr)		85					45 - 120

Lab Sample ID: 440-27512-1 MS
Matrix: Solid
Analysis Batch: 61853

Client Sample ID: 125727_B1S1
Prep Type: Total/NA
Prep Batch: 61664

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		267	184		ug/Kg		69	50 - 120
Aroclor 1260	ND		267	187		ug/Kg		70	50 - 125
Surrogate		%Recovery		Qualifier					Limits
DCB Decachlorobiphenyl (Surr)		68							45 - 120

Lab Sample ID: 440-27512-1 MSD
Matrix: Solid
Analysis Batch: 61853

Client Sample ID: 125727_B1S1
Prep Type: Total/NA
Prep Batch: 61664

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Aroclor 1016	ND		266	182		ug/Kg		68	50 - 120	1	30
Aroclor 1260	ND		266	188		ug/Kg		71	50 - 125	1	30
Surrogate		%Recovery		Qualifier					Limits		
DCB Decachlorobiphenyl (Surr)		70							45 - 120		

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-62114/1-A ^5
Matrix: Solid
Analysis Batch: 62775

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62114

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.8	1.1	mg/Kg		10/26/12 14:32	10/29/12 23:36	5
Arsenic	ND		2.0	0.79	mg/Kg		10/26/12 14:32	10/29/12 23:36	5
Barium	ND		0.98	0.78	mg/Kg		10/26/12 14:32	10/29/12 23:36	5
Beryllium	ND		0.49	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:36	5
Cadmium	ND		0.49	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:36	5
Chromium	ND		0.98	0.29	mg/Kg		10/26/12 14:32	10/29/12 23:36	5
Cobalt	ND		0.98	0.29	mg/Kg		10/26/12 14:32	10/29/12 23:36	5
Copper	ND		2.0	0.37	mg/Kg		10/26/12 14:32	10/29/12 23:36	5
Lead	ND		2.0	0.49	mg/Kg		10/26/12 14:32	10/29/12 23:36	5
Molybdenum	ND		2.0	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:36	5
Nickel	ND		2.0	0.20	mg/Kg		10/26/12 14:32	10/29/12 23:36	5
Selenium	ND		2.0	0.98	mg/Kg		10/26/12 14:32	10/29/12 23:36	5
Thallium	ND		9.8	0.78	mg/Kg		10/26/12 14:32	10/29/12 23:36	5

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 440-62114/1-A ^5

Matrix: Solid

Analysis Batch: 62775

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62114

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	ND		0.98	0.29	mg/Kg		10/26/12 14:32	10/29/12 23:36	5
Zinc	ND		4.9	0.49	mg/Kg		10/26/12 14:32	10/29/12 23:36	5

Lab Sample ID: LCS 440-62114/2-A ^5

Matrix: Solid

Analysis Batch: 62775

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62114

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	49.3	46.4		mg/Kg		94	80 - 120
Arsenic	49.3	46.2		mg/Kg		94	80 - 120
Barium	49.3	46.9		mg/Kg		95	80 - 120
Beryllium	49.3	45.6		mg/Kg		93	80 - 120
Cadmium	49.3	46.2		mg/Kg		94	80 - 120
Chromium	49.3	47.3		mg/Kg		96	80 - 120
Cobalt	49.3	51.7		mg/Kg		105	80 - 120
Copper	49.3	46.7		mg/Kg		95	80 - 120
Lead	49.3	46.1		mg/Kg		94	80 - 120
Molybdenum	49.3	43.1		mg/Kg		87	80 - 120
Nickel	49.3	46.9		mg/Kg		95	80 - 120
Selenium	49.3	42.4		mg/Kg		86	80 - 120
Thallium	49.3	45.3		mg/Kg		92	80 - 120
Zinc	49.3	44.7		mg/Kg		91	80 - 120

Lab Sample ID: 440-27510-E-1-B MS ^5

Matrix: Solid

Analysis Batch: 62775

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 62114

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.1	J	51.0	48.1		mg/Kg		92	75 - 125
Arsenic	11		51.0	57.6		mg/Kg		92	75 - 125
Barium	59		51.0	109		mg/Kg		98	75 - 125
Beryllium	0.49	J	51.0	49.7		mg/Kg		96	75 - 125
Cadmium	0.20	J	51.0	49.2		mg/Kg		96	75 - 125
Chromium	15		51.0	66.2		mg/Kg		101	75 - 125
Cobalt	4.4		51.0	51.7		mg/Kg		93	75 - 125
Copper	8.4		51.0	59.7		mg/Kg		101	75 - 125
Lead	4.0		51.0	51.1		mg/Kg		92	75 - 125
Molybdenum	1.1	J	51.0	46.1		mg/Kg		88	75 - 125
Nickel	11		51.0	57.2		mg/Kg		91	75 - 125
Selenium	ND		51.0	42.5		mg/Kg		83	75 - 125
Thallium	ND		51.0	44.8		mg/Kg		88	75 - 125
Zinc	54		51.0	90.5	F	mg/Kg		72	75 - 125

Lab Sample ID: 440-27510-E-1-C MSD ^5

Matrix: Solid

Analysis Batch: 62775

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 62114

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.1	J	49.5	48.8		mg/Kg		96	75 - 125	1	20

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-27510-E-1-C MSD ^5

Matrix: Solid

Analysis Batch: 62775

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 62114

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Arsenic	11		49.5	59.4		mg/Kg		98	75 - 125	3	20
Barium	59		49.5	118		mg/Kg		119	75 - 125	8	20
Beryllium	0.49	J	49.5	51.8		mg/Kg		104	75 - 125	4	20
Cadmium	0.20	J	49.5	55.5		mg/Kg		112	75 - 125	12	20
Chromium	15		49.5	66.7		mg/Kg		105	75 - 125	1	20
Cobalt	4.4		49.5	57.6		mg/Kg		107	75 - 125	11	20
Copper	8.4		49.5	60.5		mg/Kg		105	75 - 125	1	20
Lead	4.0		49.5	52.7		mg/Kg		98	75 - 125	3	20
Molybdenum	1.1	J	49.5	47.6		mg/Kg		94	75 - 125	3	20
Nickel	11		49.5	63.8		mg/Kg		108	75 - 125	11	20
Selenium	ND		49.5	45.0		mg/Kg		91	75 - 125	6	20
Thallium	ND		49.5	45.3		mg/Kg		91	75 - 125	1	20
Zinc	54		49.5	104		mg/Kg		103	75 - 125	14	20

Lab Sample ID: MB 440-62905/1-A ^5

Matrix: Solid

Analysis Batch: 63094

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62905

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Silver	ND		1.0	0.80	mg/Kg		10/30/12 14:58	10/30/12 21:17	5

Lab Sample ID: LCS 440-62905/2-A ^5

Matrix: Solid

Analysis Batch: 63094

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62905

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Silver	24.9	22.1		mg/Kg		89	80 - 120

Lab Sample ID: 440-27510-E-1-F MS ^5

Matrix: Solid

Analysis Batch: 63094

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 62905

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
Silver	ND		25.0	25.0		mg/Kg		100	75 - 125

Lab Sample ID: 440-27510-E-1-G MSD ^5

Matrix: Solid

Analysis Batch: 63094

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 62905

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Silver	ND		25.0	23.9		mg/Kg		96	75 - 125	5	20

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 440-62051/1-A

Matrix: Solid

Analysis Batch: 62706

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62051

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.012	mg/Kg		10/28/12 15:40	10/29/12 16:12	1

Lab Sample ID: LCS 440-62051/2-A

Matrix: Solid

Analysis Batch: 62706

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62051

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.800	0.793		mg/Kg		99	80 - 120

Lab Sample ID: 440-27479-A-4-D MS

Matrix: Solid

Analysis Batch: 62706

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 62051

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.023		0.800	0.832		mg/Kg		101	70 - 130

Lab Sample ID: 440-27479-A-4-E MSD

Matrix: Solid

Analysis Batch: 62706

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 62051

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.023		0.816	0.911		mg/Kg		109	70 - 130	9	20

Lab Sample ID: MB 440-62052/1-A

Matrix: Solid

Analysis Batch: 62684

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62052

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.012	mg/Kg		10/28/12 15:45	10/29/12 15:13	1

Lab Sample ID: LCS 440-62052/2-A

Matrix: Solid

Analysis Batch: 62684

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62052

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.800	0.745		mg/Kg		93	80 - 120

Lab Sample ID: 440-27512-7 MS

Matrix: Solid

Analysis Batch: 62684

Client Sample ID: 125727_B7S7

Prep Type: Total/NA

Prep Batch: 62052

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.028		0.784	0.775		mg/Kg		95	70 - 130

Lab Sample ID: 440-27512-7 MSD

Matrix: Solid

Analysis Batch: 62684

Client Sample ID: 125727_B7S7

Prep Type: Total/NA

Prep Batch: 62052

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.028		0.784	0.810		mg/Kg		100	70 - 130	4	20

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD

Lab Sample ID: F2K140000013B
Matrix: Solid
Analysis Batch: 2319013

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 2319013_P

Analyte	MB Result	MB Qualifier	Count Uncert. (2.000σ+/-)	Total Uncert. (2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	0.12		0.10	0.10	0.15	pCi/g	11/15/12 00:00	11/16/12 17:09	1

Lab Sample ID: F2K140000013C
Matrix: Solid
Analysis Batch: 2319013

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 2319013_P

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2.000σ+/-)	MDC	Unit	%Rec	%Rec Limits
Tritium	12.9	13.0		1.4	0.1	pCi/g	101	80 - 114

Lab Sample ID: F2J260435002S
Matrix: Solid
Analysis Batch: 2319013

Client Sample ID: 125727_B1S2 (440-27512-2)
Prep Type: Total
Prep Batch: 2319013_P

Analyte	Sample Result	Sample Qual	Spike Added	MS1 Result	MS1 Qual	Total Uncert. (2.000σ+/-)	MDC	Unit	%Rec	%Rec Limits
Tritium	0.21		12.8	14.4		1.5	0.2	pCi/g	110	78 - 122

Lab Sample ID: F2J260435001X
Matrix: Solid
Analysis Batch: 2319013

Client Sample ID: 125727_B1S1 (440-27512-1) DUP
Prep Type: Total
Prep Batch: 2319013_P

Analyte	Sample Result	Sample Qual	LR1 Result	LR1 Qual	Total Uncert. (2.000σ+/-)	MDC	Unit	RPD	RPD Limit
Tritium	0.056	U	-0.007	U	0.072	0.15	pCi/g	253	40

Lab Sample ID: F2K150000015B
Matrix: Solid
Analysis Batch: 2320015

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 2320015_P

Analyte	MB Result	MB Qualifier	Count Uncert. (2.000σ+/-)	Total Uncert. (2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-0.15	U	0.17	0.17	0.33	pCi/g	11/15/12 00:00	11/19/12 15:44	1

Lab Sample ID: F2K150000015C
Matrix: Solid
Analysis Batch: 2320015

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 2320015_P

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2.000σ+/-)	MDC	Unit	%Rec	%Rec Limits
Tritium	12.9	12.0		1.3	0.3	pCi/g	93	80 - 114

QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Method: 906.0 MOD - TRITIUM (Distill) by EPA 906.0 MOD (Continued)

Lab Sample ID: F2J260435008S
 Matrix: Solid
 Analysis Batch: 2320015

Client Sample ID: 125727_B5S8 (440-27512-8)
 Prep Type: Total
 Prep Batch: 2320015_P

Analyte	Sample Result	Sample Qual	Spike Added	MS1		Total Uncert. (2.000σ+/-)	MDC	Unit	%Rec	%Rec. Limits
				Result	Qual					
Tritium	-0.17	U	12.9	13.5		1.4	0.4	pCi/g	106	78 - 122

Lab Sample ID: F2J260435007X
 Matrix: Solid
 Analysis Batch: 2320015

Client Sample ID: 125727_B7S7 (440-27512-7) DUP
 Prep Type: Total
 Prep Batch: 2320015_P

Analyte	Sample Result	Sample Qual	LR1		Total Uncert. (2.000σ+/-)	MDC	Unit	RPD	RPD Limit
			Result	Qual					
Tritium	-0.09	U	-0.22	U	0.18	0.38	pCi/g	86	40

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Lab Sample ID: F2K12000023B
 Matrix: Solid
 Analysis Batch: 2317023

Client Sample ID: Method Blank
 Prep Type: Total
 Prep Batch: 2317023_P

Analyte	MB		Count Uncert. (2.000σ+/-)	Total Uncert. (2.000σ+/-)	DLC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qual							
Uranium 234	0.011	U		0.016	0.009	pCi/g	11/12/12 00:00	11/19/12 22:45	1
Uranium 235/236	-0.0012	U		0.0024	0.0055	pCi/g	11/12/12 00:00	11/19/12 22:45	1
Uranium 238	0.0009	U		0.0082	0.0076	pCi/g	11/12/12 00:00	11/19/12 22:45	1

Tracer	MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qual				
Uranium-232	91		30 - 110	11/12/12 00:00	11/19/12 22:45	1

Lab Sample ID: F2K12000023C
 Matrix: Solid
 Analysis Batch: 2317023

Client Sample ID: Lab Control Sample
 Prep Type: Total
 Prep Batch: 2317023_P

Analyte	Spike Added	LCS		Total Uncert. (2.000σ+/-)	DLC	Unit	%Rec	%Rec. Limits
		Result	Qual					
Uranium 234	1.63	1.59		0.20	0.004	pCi/g	97	84 - 120
Uranium 238	1.70	1.81		0.22	0.004	pCi/g	106	82 - 122

Tracer	LCS		Limits
	%Yield	Qual	
Uranium-232	91		30 - 110

Lab Sample ID: F2J260435001X
 Matrix: Solid
 Analysis Batch: 2317023

Client Sample ID: 125727_B1S1 (440-27512-1) DUP
 Prep Type: Total
 Prep Batch: 2317023_P

Analyte	Sample Result	Sample Qual	LR1		Total Uncert. (2.000σ+/-)	MDC	Unit	RPD	RPD Limit
			Result	Qual					
Uranium 234	0.73		0.78		0.14	0.03	pCi/g	6	40
Uranium 235/236	0.024		0.081		0.048	0.035	pCi/g	108	
Uranium 238	0.64		0.69		0.13	0.03	pCi/g	7	40

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD (Continued)

Lab Sample ID: F2J260435001X
 Matrix: Solid
 Analysis Batch: 2317023

Client Sample ID: 125727_B1S1 (440-27512-1) DUP
 Prep Type: Total
 Prep Batch: 2317023_P

Tracer	LR1 LR1		Limits
	%Yield	Qualifier	
Uranium-232	64		30 - 110

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD

Lab Sample ID: F2J30000086B
 Matrix: Solid
 Analysis Batch: 2304086

Client Sample ID: Method Blank
 Prep Type: Total
 Prep Batch: 2304086_P

Analyte	MB Result	MB Qualifier	Count Uncert. (2.000σ+/-)	Total Uncert. (2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Antimony 125	0.015	U	0.030	0.030	0.045	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Barium 133	0.0106		0.0086	0.0087	0.021	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Bismuth 212	0.050	U	0.074	0.074	0.12	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Bismuth 214	0.037		0.024	0.024	0.036	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Cesium 134	0.007	U	0.010	0.010	0.017	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Cesium 137	-0.0006	U	0.010	0.010	0.018	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Cobalt 60	-0.00008	U	0.00020	0.00020	0.017	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Europium 152	0.025	J	0.032	0.032	0.043	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Europium 154	0.020	U	0.028	0.029	0.12	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Europium 155	0.005	U	0.024	0.024	0.040	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Lead 212	0.002	U	0.023	0.023	0.034	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Lead 214	0.088		0.030	0.032	0.034	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Potassium 40	0.11	J	0.13	0.13	0.22	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Radium (226)	0.037	J	0.024	0.024	0.036	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Sodium 22	0.0	U	0.0040	0.0040	0.027	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Thallium 208	-0.009	U	0.018	0.018	0.020	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Thorium 232	0.029	U	0.025	0.025	0.12	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Actinium 227	-0.01	U	0.10	0.10	0.17	pCi/g	10/30/12 00:00	11/20/12 19:21	1
Protactinium 231	0.09	U	0.19	0.19	0.76	pCi/g	10/30/12 00:00	11/20/12 19:21	1

Lab Sample ID: F2J30000086C
 Matrix: Solid
 Analysis Batch: 2304086

Client Sample ID: Lab Control Sample
 Prep Type: Total
 Prep Batch: 2304086_P

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2.000σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Thorium 232	9.50	9.1		1.2	0.6	pCi/g	96	82 - 126

Lab Sample ID: F2J260435001X
 Matrix: Solid
 Analysis Batch: 2304086

Client Sample ID: 125727_B1S1 (440-27512-1) DUP
 Prep Type: Total
 Prep Batch: 2304086_P

Analyte	Sample Result	Sample Qual	LR1 Result	LR1 Qual	Total Uncert. (2.000σ+/-)	MDC	Unit	RPD	RPD Limit
Antimony 125	0.126	J	0.129	J	0.032	0.059	pCi/g	2	

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Method: GA-01-R MOD - Gamma Ra-226 & Hits By EML GA-01-R MOD (Continued)

Lab Sample ID: F2J260435001X
Matrix: Solid
Analysis Batch: 2304086

Client Sample ID: 125727_B1S1 (440-27512-1) DUP
Prep Type: Total
Prep Batch: 2304086_P

Analyte	Sample Result	Sample Qual	LR1 Result	LR1 Qual	Total Uncert. (2.000σ+/-)	MDC	Unit	RPD	RPD
									Limit
Barium 133	-0.023	U	-0.025	U	0.020	0.032	pCi/g	6	
Cesium 134	0.0075	U	0.024	U	0.019	0.063	pCi/g	103	
Cesium 137	0.01	U	0.003	U	0.015	0.025	pCi/g	109	
Cobalt 60	0.017	J	0.012	J	0.012	0.024	pCi/g	35	
Europium 152	-0.023	U	0.037	J	0.052	0.059	pCi/g	850	
Europium 154	0.06	U	0.022	U	0.061	0.16	pCi/g	92	
Europium 155	0.079	J	0.081	J	0.042	0.050	pCi/g	2	
Potassium 40	19.6		19.1		2.0	0.2	pCi/g	3	
Radium (226)	0.89	J	0.88	J	0.11	0.04	pCi/g	2	
Sodium 22	0.0	U	0.003	U	0.019	0.032	pCi/g	200	
Thallium 208	0.428		0.387		0.049	0.021	pCi/g	10	
Thorium 232	1.19		1.17		0.14	0.12	pCi/g	1	
Thorium 234	1.46		0.49		0.20	0.27	pCi/g	99	
Actinium 227	-0.06	U	0.05	U	0.15	0.23	pCi/g	1960	
Protactinium 231	0.26	U	-0.13	U	0.60	1.0	pCi/g	578	

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Lab Sample ID: F3G01000027B
Matrix: Solid
Analysis Batch: 3182027

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 3182027_P

Analyte	MB Result	MB Qualifier	Count Uncert. (2.000σ+/-)	Total Uncert. (2.000σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac

Tracer	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Sr Tracer	92		40 - 110	07/01/13 00:00	07/14/13 16:51	1

Lab Sample ID: F3G01000027C
Matrix: Solid
Analysis Batch: 3182027

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 3182027_P

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2.000σ+/-)	MDC	Unit	%Rec	%Rec. Limits

Tracer	LCS %Yield	LCS Qualifier	Limits
Sr Tracer	95		40 - 110

Lab Sample ID: F2J260435001X
Matrix: Solid
Analysis Batch: 3182027

Client Sample ID: 125727_B1S1 (440-27512-1) DUP
Prep Type: Total
Prep Batch: 3182027_P

Analyte	Sample Result	Sample Qual	LR1 Result	LR1 Qual	Total Uncert. (2.000σ+/-)	MDC	Unit	RPD	RPD
									Limit
Strontium Total	0.019	U	0.004	U	0.023	0.040	pCi/g	126	40

TestAmerica Irvine

QC Sample Results

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD (Continued)

Lab Sample ID: F2J260435001X

Matrix: Solid

Analysis Batch: 3182027

Client Sample ID: 125727_B1S1 (440-27512-1) DUP

Prep Type: Total

Prep Batch: 3182027_P

<i>Tracer</i>	<i>LR1</i>	<i>LR1</i>	<i>Limits</i>
	<i>%Yield</i>	<i>Qualifier</i>	
<i>Sr Tracer</i>	93		40 - 110

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QC Association Summary

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

GC/MS VOA

Analysis Batch: 62291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27511-A-1 MS	Matrix Spike	Total/NA	Solid	8260B	
440-27511-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	
440-27512-1	125727_B1S1	Total/NA	Solid	8260B	
440-27512-2	125727_B1S2	Total/NA	Solid	8260B	
440-27512-3	125727_B2S3	Total/NA	Solid	8260B	
440-27512-4	125727_B2S4	Total/NA	Solid	8260B	
440-27512-5	125727_B4S5	Total/NA	Solid	8260B	
440-27512-6	125727_B3S6	Total/NA	Solid	8260B	
440-27512-7	125727_B7S7	Total/NA	Solid	8260B	
LCS 440-62291/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 440-62291/3	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 62405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27512-8	125727_B5S8	Total/NA	Solid	8260B	
440-27512-9	125727_B3S9	Total/NA	Solid	8260B	
440-27512-10	125727_B5S10	Total/NA	Solid	8260B	
440-27512-10 MS	125727_B5S10	Total/NA	Solid	8260B	
440-27512-10 MSD	125727_B5S10	Total/NA	Solid	8260B	
440-27512-11	125727_B7S11	Total/NA	Solid	8260B	
LCS 440-62405/14	Lab Control Sample	Total/NA	Solid	8260B	
MB 440-62405/4	Method Blank	Total/NA	Solid	8260B	

GC Semi VOA

Prep Batch: 61664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27512-1	125727_B1S1	Total/NA	Solid	3546	
440-27512-1 MS	125727_B1S1	Total/NA	Solid	3546	
440-27512-1 MSD	125727_B1S1	Total/NA	Solid	3546	
440-27512-2	125727_B1S2	Total/NA	Solid	3546	
440-27512-3	125727_B2S3	Total/NA	Solid	3546	
440-27512-4	125727_B2S4	Total/NA	Solid	3546	
440-27512-5	125727_B4S5	Total/NA	Solid	3546	
440-27512-6	125727_B3S6	Total/NA	Solid	3546	
440-27512-7	125727_B7S7	Total/NA	Solid	3546	
440-27512-8	125727_B5S8	Total/NA	Solid	3546	
440-27512-9	125727_B3S9	Total/NA	Solid	3546	
440-27512-10	125727_B5S10	Total/NA	Solid	3546	
440-27512-11	125727_B7S11	Total/NA	Solid	3546	
LCS 440-61664/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 440-61664/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 61834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27512-2	125727_B1S2	Total/NA	Solid	8082	61664
440-27512-3	125727_B2S3	Total/NA	Solid	8082	61664
440-27512-4	125727_B2S4	Total/NA	Solid	8082	61664
440-27512-5	125727_B4S5	Total/NA	Solid	8082	61664
440-27512-6	125727_B3S6	Total/NA	Solid	8082	61664

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QC Association Summary

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

GC Semi VOA (Continued)

Analysis Batch: 61834 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27512-7	125727_B7S7	Total/NA	Solid	8082	61664
440-27512-8	125727_B5S8	Total/NA	Solid	8082	61664
440-27512-9	125727_B3S9	Total/NA	Solid	8082	61664
440-27512-10	125727_B5S10	Total/NA	Solid	8082	61664
440-27512-11	125727_B7S11	Total/NA	Solid	8082	61664

Analysis Batch: 61853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27512-1	125727_B1S1	Total/NA	Solid	8082	61664
440-27512-1 MS	125727_B1S1	Total/NA	Solid	8082	61664
440-27512-1 MSD	125727_B1S1	Total/NA	Solid	8082	61664
LCS 440-61664/2-A	Lab Control Sample	Total/NA	Solid	8082	61664
MB 440-61664/1-A	Method Blank	Total/NA	Solid	8082	61664

Metals

Prep Batch: 62051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27479-A-4-D MS	Matrix Spike	Total/NA	Solid	7471A	
440-27479-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	
440-27512-1	125727_B1S1	Total/NA	Solid	7471A	
440-27512-2	125727_B1S2	Total/NA	Solid	7471A	
440-27512-3	125727_B2S3	Total/NA	Solid	7471A	
440-27512-4	125727_B2S4	Total/NA	Solid	7471A	
440-27512-5	125727_B4S5	Total/NA	Solid	7471A	
440-27512-6	125727_B3S6	Total/NA	Solid	7471A	
LCS 440-62051/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 440-62051/1-A	Method Blank	Total/NA	Solid	7471A	

Prep Batch: 62052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27512-7	125727_B7S7	Total/NA	Solid	7471A	
440-27512-7 MS	125727_B7S7	Total/NA	Solid	7471A	
440-27512-7 MSD	125727_B7S7	Total/NA	Solid	7471A	
440-27512-8	125727_B5S8	Total/NA	Solid	7471A	
440-27512-9	125727_B3S9	Total/NA	Solid	7471A	
440-27512-10	125727_B5S10	Total/NA	Solid	7471A	
440-27512-11	125727_B7S11	Total/NA	Solid	7471A	
LCS 440-62052/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 440-62052/1-A	Method Blank	Total/NA	Solid	7471A	

Prep Batch: 62114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27510-E-1-B MS ^5	Matrix Spike	Total/NA	Solid	3050B	
440-27510-E-1-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	3050B	
440-27512-1	125727_B1S1	Total/NA	Solid	3050B	
440-27512-2	125727_B1S2	Total/NA	Solid	3050B	
440-27512-3	125727_B2S3	Total/NA	Solid	3050B	
440-27512-4	125727_B2S4	Total/NA	Solid	3050B	
440-27512-5	125727_B4S5	Total/NA	Solid	3050B	

TestAmerica Irvine

QC Association Summary

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Metals (Continued)

Prep Batch: 62114 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27512-6	125727_B3S6	Total/NA	Solid	3050B	
440-27512-7	125727_B7S7	Total/NA	Solid	3050B	
440-27512-8	125727_B5S8	Total/NA	Solid	3050B	
440-27512-9	125727_B3S9	Total/NA	Solid	3050B	
440-27512-10	125727_B5S10	Total/NA	Solid	3050B	
440-27512-11	125727_B7S11	Total/NA	Solid	3050B	
LCS 440-62114/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
MB 440-62114/1-A ^5	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 62684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27512-7	125727_B7S7	Total/NA	Solid	7471A	62052
440-27512-7 MS	125727_B7S7	Total/NA	Solid	7471A	62052
440-27512-7 MSD	125727_B7S7	Total/NA	Solid	7471A	62052
440-27512-8	125727_B5S8	Total/NA	Solid	7471A	62052
440-27512-9	125727_B3S9	Total/NA	Solid	7471A	62052
440-27512-10	125727_B5S10	Total/NA	Solid	7471A	62052
440-27512-11	125727_B7S11	Total/NA	Solid	7471A	62052
LCS 440-62052/2-A	Lab Control Sample	Total/NA	Solid	7471A	62052
MB 440-62052/1-A	Method Blank	Total/NA	Solid	7471A	62052

Analysis Batch: 62706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27479-A-4-D MS	Matrix Spike	Total/NA	Solid	7471A	62051
440-27479-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	62051
440-27512-1	125727_B1S1	Total/NA	Solid	7471A	62051
440-27512-2	125727_B1S2	Total/NA	Solid	7471A	62051
440-27512-3	125727_B2S3	Total/NA	Solid	7471A	62051
440-27512-4	125727_B2S4	Total/NA	Solid	7471A	62051
440-27512-5	125727_B4S5	Total/NA	Solid	7471A	62051
440-27512-6	125727_B3S6	Total/NA	Solid	7471A	62051
LCS 440-62051/2-A	Lab Control Sample	Total/NA	Solid	7471A	62051
MB 440-62051/1-A	Method Blank	Total/NA	Solid	7471A	62051

Analysis Batch: 62775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27510-E-1-B MS ^5	Matrix Spike	Total/NA	Solid	6010B	62114
440-27510-E-1-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6010B	62114
440-27512-1	125727_B1S1	Total/NA	Solid	6010B	62114
440-27512-2	125727_B1S2	Total/NA	Solid	6010B	62114
440-27512-3	125727_B2S3	Total/NA	Solid	6010B	62114
440-27512-4	125727_B2S4	Total/NA	Solid	6010B	62114
440-27512-5	125727_B4S5	Total/NA	Solid	6010B	62114
440-27512-6	125727_B3S6	Total/NA	Solid	6010B	62114
440-27512-7	125727_B7S7	Total/NA	Solid	6010B	62114
440-27512-8	125727_B5S8	Total/NA	Solid	6010B	62114
440-27512-9	125727_B3S9	Total/NA	Solid	6010B	62114
440-27512-10	125727_B5S10	Total/NA	Solid	6010B	62114
440-27512-11	125727_B7S11	Total/NA	Solid	6010B	62114
LCS 440-62114/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	62114
MB 440-62114/1-A ^5	Method Blank	Total/NA	Solid	6010B	62114

TestAmerica Irvine

QC Association Summary

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Metals (Continued)

Prep Batch: 62905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27510-E-1-F MS ^5	Matrix Spike	Total/NA	Solid	3050B	
440-27510-E-1-G MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	3050B	
440-27512-1	125727_B1S1	Total/NA	Solid	3050B	
440-27512-2	125727_B1S2	Total/NA	Solid	3050B	
440-27512-3	125727_B2S3	Total/NA	Solid	3050B	
440-27512-4	125727_B2S4	Total/NA	Solid	3050B	
440-27512-5	125727_B4S5	Total/NA	Solid	3050B	
440-27512-6	125727_B3S6	Total/NA	Solid	3050B	
440-27512-7	125727_B7S7	Total/NA	Solid	3050B	
440-27512-8	125727_B5S8	Total/NA	Solid	3050B	
440-27512-9	125727_B3S9	Total/NA	Solid	3050B	
440-27512-10	125727_B5S10	Total/NA	Solid	3050B	
440-27512-11	125727_B7S11	Total/NA	Solid	3050B	
LCS 440-62905/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
MB 440-62905/1-A ^5	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 63094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27510-E-1-F MS ^5	Matrix Spike	Total/NA	Solid	6010B	62905
440-27510-E-1-G MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6010B	62905
440-27512-1	125727_B1S1	Total/NA	Solid	6010B	62905
440-27512-2	125727_B1S2	Total/NA	Solid	6010B	62905
440-27512-3	125727_B2S3	Total/NA	Solid	6010B	62905
440-27512-4	125727_B2S4	Total/NA	Solid	6010B	62905
440-27512-5	125727_B4S5	Total/NA	Solid	6010B	62905
440-27512-6	125727_B3S6	Total/NA	Solid	6010B	62905
440-27512-7	125727_B7S7	Total/NA	Solid	6010B	62905
440-27512-8	125727_B5S8	Total/NA	Solid	6010B	62905
440-27512-9	125727_B3S9	Total/NA	Solid	6010B	62905
440-27512-10	125727_B5S10	Total/NA	Solid	6010B	62905
440-27512-11	125727_B7S11	Total/NA	Solid	6010B	62905
LCS 440-62905/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	62905
MB 440-62905/1-A ^5	Method Blank	Total/NA	Solid	6010B	62905

General Chemistry

Analysis Batch: 2310013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27512-1	125727_B1S1	Total	Solid	160.3 MOD	
440-27512-2	125727_B1S2	Total	Solid	160.3 MOD	
440-27512-3	125727_B2S3	Total	Solid	160.3 MOD	
440-27512-4	125727_B2S4	Total	Solid	160.3 MOD	
440-27512-5	125727_B4S5	Total	Solid	160.3 MOD	
440-27512-6	125727_B3S6	Total	Solid	160.3 MOD	
440-27512-7	125727_B7S7	Total	Solid	160.3 MOD	
440-27512-8	125727_B5S8	Total	Solid	160.3 MOD	
440-27512-9	125727_B3S9	Total	Solid	160.3 MOD	
440-27512-10	125727_B5S10	Total	Solid	160.3 MOD	
440-27512-11	125727_B7S11	Total	Solid	160.3 MOD	
F2J260435001X	125727_B1S1 (440-27512-1) DUP	Total	Solid	160.3 MOD	

TestAmerica Irvine

QC Association Summary

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

RAD

Prep Batch: 2304086_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27512-1	125727_B1S1	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
440-27512-2	125727_B1S2	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
440-27512-3	125727_B2S3	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
440-27512-4	125727_B2S4	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
440-27512-5	125727_B4S5	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
440-27512-6	125727_B3S6	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
440-27512-7	125727_B7S7	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
440-27512-8	125727_B5S8	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
440-27512-9	125727_B3S9	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
440-27512-10	125727_B5S10	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
440-27512-11	125727_B7S11	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
F2J260435001X	125727_B1S1 (440-27512-1) DUP	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
F2J300000086B	Method Blank	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	
F2J300000086C	Lab Control Sample	Total	Solid	Dry, Grind, and Fill Geometry -> 21 day in-growth	



QC Association Summary

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

RAD (Continued)

Prep Batch: 2317023_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27512-1	125727_B1S1	Total	Solid	Extraction Chromatography - Sequential Actinides	
440-27512-2	125727_B1S2	Total	Solid	Extraction Chromatography - Sequential Actinides	
440-27512-3	125727_B2S3	Total	Solid	Extraction Chromatography - Sequential Actinides	
440-27512-4	125727_B2S4	Total	Solid	Extraction Chromatography - Sequential Actinides	
440-27512-5	125727_B4S5	Total	Solid	Extraction Chromatography - Sequential Actinides	
440-27512-6	125727_B3S6	Total	Solid	Extraction Chromatography - Sequential Actinides	
440-27512-7	125727_B7S7	Total	Solid	Extraction Chromatography - Sequential Actinides	
440-27512-8	125727_B5S8	Total	Solid	Extraction Chromatography - Sequential Actinides	
440-27512-9	125727_B3S9	Total	Solid	Extraction Chromatography - Sequential Actinides	
440-27512-10	125727_B5S10	Total	Solid	Extraction Chromatography - Sequential Actinides	
440-27512-11	125727_B7S11	Total	Solid	Extraction Chromatography - Sequential Actinides	
F2J260435001X	125727_B1S1 (440-27512-1) DUP	Total	Solid	Extraction Chromatography - Sequential Actinides	
F2K120000023B	Method Blank	Total	Solid	Extraction Chromatography - Sequential Actinides	
F2K120000023C	Lab Control Sample	Total	Solid	Extraction Chromatography - Sequential Actinides	



QC Association Summary

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

RAD (Continued)

Prep Batch: 2319013_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27512-1	125727_B1S1	Total	Solid	Distillation and Suspended in LSC Cocktail	
440-27512-2	125727_B1S2	Total	Solid	Distillation and Suspended in LSC Cocktail	
440-27512-3	125727_B2S3	Total	Solid	Distillation and Suspended in LSC Cocktail	
440-27512-4	125727_B2S4	Total	Solid	Distillation and Suspended in LSC Cocktail	
440-27512-5	125727_B4S5	Total	Solid	Distillation and Suspended in LSC Cocktail	
440-27512-6	125727_B3S6	Total	Solid	Distillation and Suspended in LSC Cocktail	
F2J260435001X	125727_B1S1 (440-27512-1) DUP	Total	Solid	Distillation and Suspended in LSC Cocktail	
F2J260435002S	125727_B1S2 (440-27512-2)	Total	Solid	Distillation and Suspended in LSC Cocktail	
F2K140000013B	Method Blank	Total	Solid	Distillation and Suspended in LSC Cocktail	
F2K140000013C	Lab Control Sample	Total	Solid	Distillation and Suspended in LSC Cocktail	

Prep Batch: 2320015_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27512-7	125727_B7S7	Total	Solid	Distillation and Suspended in LSC Cocktail	
440-27512-8	125727_B5S8	Total	Solid	Distillation and Suspended in LSC Cocktail	
440-27512-9	125727_B3S9	Total	Solid	Distillation and Suspended in LSC Cocktail	
440-27512-10	125727_B5S10	Total	Solid	Distillation and Suspended in LSC Cocktail	
440-27512-11	125727_B7S11	Total	Solid	Distillation and Suspended in LSC Cocktail	
F2J260435007X	125727_B7S7 (440-27512-7) DUP	Total	Solid	Distillation and Suspended in LSC Cocktail	
F2J260435008S	125727_B5S8 (440-27512-8)	Total	Solid	Distillation and Suspended in LSC Cocktail	
F2K150000015B	Method Blank	Total	Solid	Distillation and Suspended in LSC Cocktail	



QC Association Summary

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

RAD (Continued)

Prep Batch: 2320015_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
F2K150000015C	Lab Control Sample	Total	Solid	Distillation and Suspended in LSC Cocktail	

Prep Batch: 3182027_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-27512-1	125727_B1S1	Total	Solid	Extraction Chromatography	
440-27512-2	125727_B1S2	Total	Solid	Extraction Chromatography	
440-27512-3	125727_B2S3	Total	Solid	Extraction Chromatography	
440-27512-4	125727_B2S4	Total	Solid	Extraction Chromatography	
440-27512-5	125727_B4S5	Total	Solid	Extraction Chromatography	
440-27512-6	125727_B3S6	Total	Solid	Extraction Chromatography	
440-27512-7	125727_B7S7	Total	Solid	Extraction Chromatography	
440-27512-8	125727_B5S8	Total	Solid	Extraction Chromatography	
440-27512-9	125727_B3S9	Total	Solid	Extraction Chromatography	
440-27512-10	125727_B5S10	Total	Solid	Extraction Chromatography	
440-27512-11	125727_B7S11	Total	Solid	Extraction Chromatography	
F2J260435001X	125727_B1S1 (440-27512-1) DUP	Total	Solid	Extraction Chromatography	
F3G010000027B	Method Blank	Total	Solid	Extraction Chromatography	
F3G010000027C	Lab Control Sample	Total	Solid	Extraction Chromatography	

Definitions/Glossary

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

RAD

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.
J	Result is greater than sample detection limit but less than stated reporting limit.

RAD TICs

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: The Boeing Company
 Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-14
Arizona	State Program	9	AZ0671	10-13-13
California	LA Cty Sanitation Districts	9	10256	01-31-14
California	NELAP	9	1108CA	01-31-14
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	01-28-14 *
Hawaii	State Program	9	N/A	01-31-14
Nevada	State Program	9	CA015312007A	07-31-13
New Mexico	State Program	6	N/A	01-31-14
Northern Mariana Islands	State Program	9	MP0002	01-31-14
Oregon	NELAP	10	4005	09-12-13
USDA	Federal		P330-09-00080	06-06-14
USEPA UCMR	Federal	1	CA01531	01-31-15

Laboratory: TestAmerica St. Louis

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-14
California	NELAP	9	2542	03-31-14
Connecticut	State Program	1	PH-0241	03-31-15
Florida	NELAP	4	E87689	06-30-13
Illinois	NELAP	5	200023	11-30-13
Iowa	State Program	7	373	12-01-14
Kansas	NELAP	7	E-10236	10-31-13
Kentucky	State Program	4	90125	12-31-13
L-A-B	DoD ELAP		L2305	01-10-16
Louisiana	NELAP	6	106151	06-30-14
Louisiana	NELAP	6	LA070016	12-31-13
Maryland	State Program	3	310	09-30-13
Missouri	State Program	7	780	06-30-13
Nevada	State Program	9	MO000542013-1	07-31-13
New Jersey	NELAP	2	MO002	06-30-14
New York	NELAP	2	11616	04-01-14
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-13
Pennsylvania	NELAP	3	68-00540	02-28-14
South Carolina	State Program	4	85002	06-30-13
Texas	NELAP	6	T104704193	07-31-13
USDA	Federal		P330-07-00122	01-03-14
USEPA Reg V SDWA	Federal	1	N/A	08-30-14
Utah	NELAP	8	MO000542012-4	06-30-13
Virginia	NELAP	3	460230	06-14-14
Washington	State Program	10	C1310	08-31-13
West Virginia DEP	State Program	3	381	08-30-13

* Expired certification is currently pending renewal and is considered valid.

440-21512

Client Name/Address:		Project:		ANALYSIS REQUIRED		Please send copy of results to Tom Armenoff: [thomas.c.armenoff@boeing.com]	
The Boeing Company SSFL 5800 Woolsey Canyon Road Canoga Park, CA 91304-1148		125727 B/1300 ISRA SHL SOIL WC - BOTTOM SAMPLES		PCB as Aroclors		Please provide level II data package with signed cover page and bedms format edd	
TestAmerica Contact: Heather Clark Project Manager: Kevin Ruddick		Phone Number: (818) 466-8089 Fax Number: (818) 466-8743 E-mail: kevin.f.ruddick@boeing.com		VOC (EPA 8260)			
Sampler: <i>Van Vatheman / Andrew Payne</i>				Cam 17 metals			
Sample Description	Sample Matrix	Container Type	# of Cont	Sampling Date/Time	Preservative	Bottle #	Comments
125727_B1S1	Solid	8 oz jar	8	10-23-12/0930	NA	-	Run STLC (WET)/TCLP if TTLC results >=10X STLC/20X TCLP thresholds
125727_B1S2	Solid	8 oz jar	8	10-23-12/0950	NA	-	Run STLC (WET)/TCLP if TTLC results >=10X STLC/20X TCLP thresholds
125727_B2S3	Solid	8 oz jar	8	10-23-12/1024	NA	-	Run STLC (WET)/TCLP if TTLC results >=10X STLC/20X TCLP thresholds
125727_B2S4	Solid	8 oz jar	8	10-23-12/1300	NA	-	Run STLC (WET)/TCLP if TTLC results >=10X STLC/20X TCLP thresholds
125727_B4S5	Solid	8 oz jar	8	10-23-12/1240	NA	-	Run STLC (WET)/TCLP if TTLC results >=10X STLC/20X TCLP thresholds
125727_B3S6	Solid	8 oz jar	8	10-23-12/1232	NA	-	Run STLC (WET)/TCLP if TTLC results >=10X STLC/20X TCLP thresholds
125727_B7S7	Solid	8 oz jar	8	10-23-12/0940	NA	-	Run STLC (WET)/TCLP if TTLC results >=10X STLC/20X TCLP thresholds
125727_B6S8	Solid	8 oz jar	8	10-23-12/1120	NA	-	Run STLC (WET)/TCLP if TTLC results >=10X STLC/20X TCLP thresholds
125727_B3S9	Solid	8 oz jar	8	10-23-12/1115	NA	-	Run STLC (WET)/TCLP if TTLC results >=10X STLC/20X TCLP thresholds
125727_B6S10	Solid	8 oz jar	8	10-23-12/1145	NA	-	Run STLC (WET)/TCLP if TTLC results >=10X STLC/20X TCLP thresholds
125727_B7S11	Solid	8 oz jar	8	10-23-12/1027	NA	-	Run STLC (WET)/TCLP if TTLC results >=10X STLC/20X TCLP thresholds
Relinquished By				Date/Time: 10/23/12 15:05			Turn around Time: (check) 24 Hours _____ 5 Days <u>XX5</u>
Relinquished By				Date/Time: 10/23/12 19:15			48 Hours _____ 10 Days <u>XX</u>
Relinquished By				Date/Time: 10-23-12			72 Hours _____ Normal _____
				Date/Time: 10/23/12 19:15			Perchlorate Only 72 Hours _____
				Date/Time: 10/23/12 19:15			Metals Only 72 Hours _____
				Date/Time: 10/23/12 19:15			Sample Integrity: (Check) On Ice: <u>41</u>

Login Sample Receipt Checklist

Client: The Boeing Company

Job Number: 440-27512-1

Login Number: 27512

List Source: TestAmerica Irvine

List Number: 1

Creator: Escalante, Maria

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Tracer/Carrier Summary

Client: The Boeing Company
Project/Site: 125727 B/1300 IRSA SHL SOIL WC

TestAmerica Job ID: 440-27512-1

Method: A-01-R MOD - Iso URANIUM (LONG CT) DOE A-01-R MOD

Matrix: Solid

Prep Type: Total

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Uranium-23: (30-110)	
440-27512-1	125727_B1S1	61	
440-27512-2	125727_B1S2	66	
440-27512-3	125727_B2S3	67	
440-27512-4	125727_B2S4	63	
440-27512-5	125727_B4S5	62	
440-27512-6	125727_B3S6	51	
440-27512-7	125727_B7S7	60	
440-27512-8	125727_B5S8	85	
440-27512-9	125727_B3S9	61	
440-27512-10	125727_B5S10	62	
440-27512-11	125727_B7S11	56	
F2J260435001X	125727_B1S1 (440-27512-1) DUP	64	
F2K120000023B	Method Blank	91	
F2K120000023C	Lab Control Sample	91	

Tracer/Carrier Legend
Uranium-232 = Uranium-232

Method: SR-03-RC MOD - Total Strontium by GFPC DOE SR-03-RC MOD

Matrix: Solid

Prep Type: Total

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Sr Tracer (40-110)	
440-27512-1 - RE	125727_B1S1	88	
440-27512-2 - RE	125727_B1S2	89	
440-27512-3 - RE	125727_B2S3	90	
440-27512-4 - RE	125727_B2S4	95	
440-27512-5 - RE	125727_B4S5	76	
440-27512-6 - RE	125727_B3S6	79	
440-27512-7 - RE	125727_B7S7	77	
440-27512-8 - RE	125727_B5S8	82	
440-27512-9 - RE	125727_B3S9	77	
440-27512-10 - RE	125727_B5S10	80	
440-27512-11 - RE	125727_B7S11	82	
F2J260435001X - RE	125727_B1S1 (440-27512-1) DUP	93	
F3G010000027B	Method Blank	92	
F3G010000027C	Lab Control Sample	95	

Tracer/Carrier Legend
Sr Tracer = Sr Tracer