

**ISRA 009 – B1-1.
Soil Sampling for Radionuclides.
Results and Statistical Analysis.
Waste Certification.**

This data package provides the laboratory results and statistical analysis of the 26 samples taken at the ISRA Outfall 009, B1-1 area. This analysis and data interpretation complies with the procedure approved by the California Department of Public Health¹.

Samples taken for waste disposal characterization were analyzed for strontium-90, tritium and gamma emitting radionuclides by gamma spectroscopy, using an off-site laboratory. Minimum detectable activity (MDA) for cesium-137 and strontium-90 averaged ~0.037 pCi/g and ~0.037 pCi/g respectively. Minimum detectable activity for tritium averaged ~0.9 pCi/g. The gamma spectroscopy library also included the following contaminants-of-concern: Na-22, K-40, Mn-54, Co-60, Cs-134, Cs-137, Eu-152, Eu-154, Th-228, Th-232, U-235, U-238 and Am-241.

Statistical evaluation of sample analytical results to determine whether or not the sampled waste contains Cs-137 or Sr-90 activity elevated above local background was conducted using the Wilcoxon Rank Sum Test using protocols described in NUREG-1505² and DTSC guidance³ (See Appendix 1). Appendix 2 shows the complete analytical results for all radionuclides. Complete laboratory data packages are available on request.

Local background data for cesium-137 and strontium-90 was taken from Table 20 of the 1995 McLaren/Hart report⁴. Background for tritium in soil is not well established, and is not reported in the 1995 McLaren/Hart report, therefore tritium background in soil is conservatively assumed to be zero. Tritium data is therefore compared to the MDA of the analysis and the EPA preliminary remediation goal (PRG)⁵ for residential 10⁻⁶ risk.

Conclusions

Cesium-137 - Based on the results of the statistical analysis of Appendix 1, soil to be excavated from B1-1 does not exceed the local background for Cs-137. The incremental dose from Cs-137 above background is therefore zero mrem/y. The highest Cs-137 result is 0.229 +/- 0.0522 pCi/g which is statistically identical to the highest background result of 0.21 +/- 0.04 pCi/g. The highest non-background subtracted Cs-137 result is equivalent to an effective dose of 0.16 mrem/y⁶.

¹ Boeing, "Northern Drainage Waste Sampling for Radionuclides." Revision 9, November 5, 2007. (Attachment 3 to Northern Drainage Work Plan) and "ISRA Waste Sampling for Radionuclides", Attachment A to the ISRA Soil Management Plan.

² NUREG-1505, Nuclear Regulatory Commission, "A Non-parametric Statistical Methodology for the Design and Analysis of Final Status Decommissioning Surveys." January 1998. http://www.philrutherford.com/Radiation_Cleanup_Standards/NUREG-1505.pdf

³ DTSC, "Selecting Inorganic Constituents as Chemicals of Concern at Risk Assessments at Hazardous Waste Sites and Permitted Facilities." February 1997.

⁴ McLaren/Hart, "Additional Soil and Water Sampling at the Brandeis-Bardin Institute and Santa Monica Mountains Conservancy." Jan 19, 1995. <http://www.etec.energy.gov/Health-and-Safety/Documents/BrandeisBardin/AddSoilandWaterSamp.pdf>

⁵ EPA preliminary remediation goals for radionuclides - <http://epa-prgs.ornl.gov/radionuclides/>.

Strontium-90 - Based on the results of the statistical analysis of Appendix 1, soil to be excavated from B1-1 does not exceed the local background for Sr-90. The incremental dose from Sr-90 above background is therefore zero mrem/y. The highest Sr-90 result is 0.064 pCi/g which is less than the highest background result of 0.13 pCi/g. The highest non-background subtracted Sr-90 result is equivalent to an effective dose of 0.02 mrem/y⁶.

Tritium - All tritium results are non-detect, the average tritium result is -0.152 pCi/g and the highest tritium result is 0.894 pCi/g. The highest non-detected, non-background subtracted tritium result is equivalent to an effective dose of 0.013 mrem/y⁶.

This waste is certified to be “radiologically” acceptable for shipment to, and disposal at, any waste disposal facility. The waste requires no further radiological controls.

This waste meets the requirements of disposal facility permits^{7,8} and complies with the California Health & Safety Code⁹.

The Governor’s Executive Order D-62-02 prohibits the “*disposal of decommissioned materials to Class III landfills or unclassified management units.*” The soil from B1-1 is not decommissioned material, and does not originate from the proximity of any radiological facility. The sampling in this certification has therefore been conducted as a best management practice that complies with the requirements of D-62-02. Verification sampling and/or approval by the California Department of Public Health (CDPH) Radiologic Health Branch (RHB) are not required for the off-site disposal of decommissioned material or of the subject material¹⁰.

⁶ EPA dose compliance concentrations for radionuclides - <http://epa-dccs.ornl.gov/>. Soil concentrations that meet the 10⁻⁶ residential risk PRG are < 0.1 mrem/y. The Cs-137 residential PRG of 0.0597 pCi/g is equivalent to 0.042 mrem/y. The Sr-90 residential PRG of 0.231 pCi/g is equivalent to 0.071 mrem/y. The tritium residential PRG of 2.28 pCi/g is equivalent to 0.032 mrem/y.

⁷ This waste is exempt from regulation and licensing or is expressly authorized for disposal under the Radiation Control Law (Division 104, Part 9, Chapter 8 of the California Health & Safety Code).

⁸ This waste is not prohibited from disposal by any government agency with jurisdictional authority over this waste.

⁹ Division 104, Part 9, Chapter 5, Article 1, Section 114715, “No person shall bury, throw away, or in any manner dispose of radioactive wastes within the state except in a manner and at locations as will result in no significant radioactive contamination of the environment.” For the purposes of this requirement, “significant” is defined in Section 114710 as amounts of radioactive materials that are likely to expose persons to ionizing radiation greater than the guide levels published by the Federal Radiation Council (FRC). The FRC no longer exists, but the applicable guide level last published by the FRC was 500 mrem per year to a member of the public. Because the regulatory dose limit to members of the public has since been lowered to 100 mrem per year, CDPH/RHB conservatively utilizes the lower dose for purposes of defining “significant” radioactive contamination in this Article of the California Health and Safety Code.
<http://www.leginfo.ca.gov/cgi-bin/displaycode?section=hsc&group=114001-115000&file=114705-114780>

¹⁰ The California Department of Public Health (CDPH) Radiologic Health Branch (RHB) has stated in a November 9, 2007 email to Phil Rutherford (Boeing) ... “*The Governor’s Executive Order D-62-02, does not specifically require the Department of Health Services (now the Department of Public Health) to perform verification sampling of decommissioned material or to provide approval*”



Phil Rutherford
Manager, Health, Safety & Radiation Services

for disposal of specific decommissioned material shipped offsite (e.g., to Class I or II landfills). The California DPH has not imposed a requirement that Boeing or the Department of Energy (DOE) seek DPH verification sampling or approval of all decommissioned material destined for Class I or II landfills in compliance with the Governor's Executive Order."

Appendix 1

Wilcoxon Rank Sum Statistical Test for Cesium-137 and Strontium-90

Wilcoxon Rank Sum Test -- (Cesium-137)**General Information:**

The WRS tests whether or not measurements of samples from a survey area (S) tend to be consistently larger than those from a background reference area (R) by more than the DCGL.

The null hypothesis, H_0 , is: Survey sample concentrations exceed those in the background

The alternative hypothesis, H_a , is: Survey sample concentrations do not exceed those in the background

Instruction on how to use this template:

- 1) Enter analysis results in pCi/gram
- 2) Enter number of samples for background and survey data sets, m and n.
- 3) The WRS test is calculated using the method prescribed in NUREG-1505, Nuclear Regulatory Commission, "A Non-parametric Statistical Methodology for the Design and Analysis of Final Status Decommissioning Surveys." January 1998.

DCGL (pCi/g)	0.00
Type I Error Rate, Alpha:	0.05
Type II Error Rate, Beta:	0.05
Number of Background Samples, m:	51
Number of Survey Samples, n:	26
Z-value for Alpha	1.645
Critical Value	2142
Sum of Reference Ranks	2321

If the sum of the reference ranks is larger than the critical value, there is enough evidence to reject the null hypothesis and accept the alternative hypothesis. Otherwise the null hypothesis is accepted.

Test Result:

Survey sample concentrations do not exceed those in the background by more than the DCGL

	Bkgd Ref (R)	Survey (S)
Mean	0.087	0.041
Max	0.213	0.229
Min	0.015	-0.034
σ	0.062	0.077
$m-1.96\sigma$	-0.035	-0.111
$m+1.96\sigma$	0.210	0.192

No.	Soil ID	Cs-137	Adjusted Cs-137	Area	Ranks	Reference Ranks
1		0.092	0.092	R	48	48
2		0.020	0.020	R	23	23
3		0.020	0.020	R	23	23
4		0.100	0.100	R	53.5	53.5
5		0.020	0.020	R	23	23
6		0.158	0.158	R	66.5	66.5
7		0.175	0.175	R	69	69
8		0.209	0.209	R	75	75
9		0.180	0.180	R	70	70
10		0.030	0.030	R	31	31
11		0.213	0.213	R	76	76
12		0.025	0.025	R	28	28
13		0.020	0.020	R	23	23
14		0.020	0.020	R	23	23
15		0.074	0.074	R	43	43
16		0.147	0.147	R	61	61
17		0.100	0.100	R	53.5	53.5

No.	Soil ID	Cs-137	Adjusted Cs-137	Area	Ranks	Reference Ranks
18		0.067	0.067	R	41.5	41.5
19		0.099	0.099	R	52	52
20		0.101	0.101	R	55	55
21		0.148	0.148	R	62	62
22		0.153	0.153	R	64	64
23		0.025	0.025	R	28	28
24		0.188	0.188	R	71	71
25		0.198	0.198	R	73	73
26		0.030	0.030	R	31	31
27		0.079	0.079	R	45	45
28		0.158	0.158	R	66.5	66.5
29		0.109	0.109	R	56	56
30		0.059	0.059	R	39	39
31		0.067	0.067	R	41.5	41.5
32		0.113	0.113	R	57	57
33		0.015	0.015	R	18	18
34		0.031	0.031	R	34	34
35		0.042	0.042	R	37	37
36		0.097	0.097	R	50.5	50.5
37		0.015	0.015	R	18	18
38		0.020	0.020	R	23	23
39		0.085	0.085	R	47	47
40		0.080	0.080	R	46	46
41		0.015	0.015	R	18	18
42		0.020	0.020	R	23	23
43		0.035	0.035	R	35.5	35.5
44		0.035	0.035	R	35.5	35.5
45		0.025	0.025	R	28	28
46		0.150	0.150	R	63	63
47		0.140	0.140	R	59.5	59.5
48		0.190	0.190	R	72	72
49		0.097	0.097	R	50.5	50.5
50		0.030	0.030	R	31	31
51		0.140	0.140	R	59.5	59.5
52	B1WC0001S001	-0.015	-0.015	S	7	0
53	B1WC0002S001	0.065	0.065	S	40	0
54	B1WC0003S001	-0.005	-0.005	S	10	0
55	B1WC0004S001	0.207	0.207	S	74	0
56	B1WC0005S001	0.229	0.229	S	77	0
57	B1WC0006S001	0.008	0.008	S	15	0
58	B1WC0007S001	0.078	0.078	S	44	0
59	B1WC0008S001	-0.010	-0.010	S	8	0
60	B1WC0009S001	0.031	0.031	S	33	0
61	B1WC0010S001	-0.002	-0.002	S	12	0
62	B1WC0011S001	0.007	0.007	S	14	0
63	B1WC0012S001	0.127	0.127	S	58	0
64	B1WC0013S001	-0.034	-0.034	S	1	0
65	B1WC0014S001	-0.023	-0.023	S	3	0
66	B1WC0015S001	-0.018	-0.018	S	5	0
67	B1WC0016S001	0.056	0.056	S	38	0
68	B1WC0017S001	-0.019	-0.019	S	4	0
69	B1WC0018S001	-0.031	-0.031	S	2	0
70	B1WC0027S001	-0.016	-0.016	S	6	0
71	B1WC0028S001	-0.004	-0.004	S	11	0
72	B1WC0029S001	0.172	0.172	S	68	0
73	B1WC0030S001	0.092	0.092	S	49	0
74	B1WC0031S001	0.000	0.000	S	13	0
75	B1WC0032S001	0.156	0.156	S	65	0
76	B1WC0033S001	-0.009	-0.009	S	9	0

No.	Soil ID	Cs-137	Adjusted Cs-137	Area	Ranks	Reference Ranks
77	B1WC0034S001	0.011	0.011	S	16	0
Sum					3003	2321

Wilcoxon Rank Sum Test -- (Strontium-90)**General Information:**

The WRS tests whether or not measurements of samples from a survey area (S) tend to be consistently larger than those from a background reference area (R) by more than the DCGL..

The null hypothesis, Ho, is: Survey sample concentrations exceed those in the background

The alternative hypothesis, Ha, is: Survey sample concentrations do not exceed those in the background

Instruction on how to use this template:

- 1) Enter analysis results in pCi/gram
- 2) Enter number of samples for background and survey data sets, m and n.
- 3) The WRS test is calculated using the method prescribed in NUREG-1505, Nuclear Regulatory Commission, "A Non-parametric Statistical Methodology for the Design and Analysis of Final Status Decommissioning Surveys." January 1998.

DCGL (pCi/g)	0.00
Type I Error Rate, Alpha:	0.05
Type II Error Rate, Beta:	0.05
Number of Background Samples, m:	51
Number of Survey Samples, n:	26
Z-value for Alpha	1.645
Critical Value	2142
Sum of Reference Ranks	2495

If the sum of the reference ranks is larger than the critical value, there is enough evidence to reject the null hypothesis and accept the alternative hypothesis. Otherwise the null hypothesis is accepted.

Test Result:

Survey sample concentrations do not exceed those in the background by more than the DCGL

	Bkgd Ref (R)	Survey (S)
Mean	0.051	0.016
Max	0.130	0.064
Min	0.005	-0.011
σ	0.030	0.017
$m-1.96\sigma$	-0.008	-0.017
$m+1.96\sigma$	0.109	0.048

No.	Soil ID	Sr-90	Adjusted Sr-90	Area	Ranks	Reference Ranks
1		0.030	0.030	R	33	33
2		0.010	0.010	R	13.5	13.5
3		0.045	0.045	R	51.5	51.5
4		0.045	0.045	R	51.5	51.5
5		0.050	0.050	R	61	61
6		0.040	0.040	R	42	42
7		0.035	0.035	R	37.5	37.5
8		0.050	0.050	R	61	61
9		0.050	0.050	R	61	61
10		0.130	0.130	R	76.5	76.5
11		0.120	0.120	R	75	75
12		0.040	0.040	R	42	42
13		0.045	0.045	R	51.5	51.5
14		0.130	0.130	R	76.5	76.5
15		0.050	0.050	R	61	61
16		0.088	0.088	R	70	70
17		0.080	0.080	R	67	67
18		0.100	0.100	R	74	74
19		0.069	0.069	R	66	66
20		0.097	0.097	R	72	72

No.	Soil ID	Sr-90	Adjusted Sr-90	Area	Ranks	Reference Ranks
21		0.084	0.084	R	69	69
22		0.098	0.098	R	73	73
23		0.045	0.045	R	51.5	51.5
24		0.045	0.045	R	51.5	51.5
25		0.020	0.020	R	23	23
26		0.045	0.045	R	51.5	51.5
27		0.089	0.089	R	71	71
28		0.050	0.050	R	61	61
29		0.045	0.045	R	51.5	51.5
30		0.050	0.050	R	61	61
31		0.045	0.045	R	51.5	51.5
32		0.040	0.040	R	42	42
33		0.045	0.045	R	51.5	51.5
34		0.045	0.045	R	51.5	51.5
35		0.045	0.045	R	51.5	51.5
36		0.025	0.025	R	29.5	29.5
37		0.082	0.082	R	68	68
38		0.045	0.045	R	51.5	51.5
39		0.040	0.040	R	42	42
40		0.035	0.035	R	37.5	37.5
41		0.025	0.025	R	29.5	29.5
42		0.005	0.005	R	7	7
43		0.020	0.020	R	23	23
44		0.010	0.010	R	13.5	13.5
45		0.020	0.020	R	23	23
46		0.020	0.020	R	23	23
47		0.050	0.050	R	61	61
48		0.030	0.030	R	33	33
49		0.030	0.030	R	33	33
50		0.020	0.020	R	23	23
51		0.040	0.040	R	42	42
52	B1WC0001S001	0.021	0.021	S	27	0
53	B1WC0002S001	0.008	0.008	S	11	0
54	B1WC0003S001	-0.006	-0.006	S	3	0
55	B1WC0004S001	0.027	0.027	S	31	0
56	B1WC0005S001	0.032	0.032	S	35	0
57	B1WC0006S001	0.020	0.020	S	26	0
58	B1WC0007S001	0.004	0.004	S	6	0
59	B1WC0008S001	0.015	0.015	S	17	0
60	B1WC0009S001	0.009	0.009	S	12	0
61	B1WC0010S001	0.018	0.018	S	18	0
62	B1WC0011S001	0.004	0.004	S	5	0
63	B1WC0012S001	0.033	0.033	S	36	0
64	B1WC0013S001	-0.002	-0.002	S	4	0
65	B1WC0014S001	0.006	0.006	S	8	0
66	B1WC0015S001	-0.011	-0.011	S	1	0
67	B1WC0016S001	0.019	0.019	S	19	0
68	B1WC0017S001	0.013	0.013	S	15	0
69	B1WC0018S001	0.006	0.006	S	10	0
70	B1WC0027S001	0.041	0.041	S	45	0
71	B1WC0028S001	-0.008	-0.008	S	2	0
72	B1WC0029S001	0.020	0.020	S	20	0
73	B1WC0030S001	0.036	0.036	S	39	0
74	B1WC0031S001	0.064	0.064	S	65	0
75	B1WC0032S001	0.022	0.022	S	28	0
76	B1WC0033S001	0.015	0.015	S	16	0
77	B1WC0034S001	0.006	0.006	S	9	0
Sum					3003	2495

Soil Data from ISRA 009 - B1-1

No.	Sample ID	Stockpile ID	Sampling Date	Laboratory Batch	Cesium-137 (pCi/g)				Strontium-90 (pCi/g)				Tritium (pCi/g)			
					Activity	+/- 2σ Error	MDA	Non-detect?	Activity	+/- 2σ Error	MDA	Non-detect?	Activity	+/- 2σ Error	MDA	Non-detect?
1	B1WC0001S001	N/A	4/28/2010	251959	-0.0149	0.0213	0.0355	NDA	0.0213	0.0228	0.0376	NDA	-0.103	0.637	1.1	NDA
2	B1WC0002S001	N/A	4/28/2010	251959	0.0651	0.0311	0.0399		0.00755	0.0181	0.0334	NDA	-0.552	0.626	1.11	NDA
3	B1WC0003S001	N/A	4/28/2010	251959	-0.00529	0.0225	0.0388	NDA	-0.00558	0.0148	0.0328	NDA	-0.241	0.633	1.1	NDA
4	B1WC0004S001	N/A	4/28/2010	251959	0.207	0.0387	0.0313		0.0268	0.0237	0.0379	NDA	-0.14	0.646	1.12	NDA
5	B1WC0005S001	N/A	4/28/2010	251959	0.229	0.0522	0.0406		0.0318	0.0219	0.0329	NDA	-0.776	0.624	1.11	NDA
6	B1WC0006S001	N/A	4/28/2010	251959	0.00762	0.02	0.0352	NDA	0.0203	0.0185	0.0294	NDA	-0.312	0.636	1.11	NDA
7	B1WC0007S001	N/A	4/27/2010	251902	0.0779	0.0302	0.0385		0.00422	0.0182	0.0345	NDA	-0.376	0.534	0.95	NDA
8	B1WC0008S001	N/A	4/27/2010	251902	-0.0102	0.0251	0.0431	NDA	0.0153	0.0221	0.0384	NDA	-0.39	0.519	0.924	NDA
9	B1WC0009S001	N/A	4/27/2010	251902	0.0308	0.0203	0.0385	NDA	0.00905	0.0214	0.039	NDA	-0.341	0.512	0.911	NDA
10	B1WC0010S001	N/A	4/27/2010	251902	-0.00238	0.0251	0.0416	NDA	0.0183	0.0239	0.0408	NDA	-0.0613	0.551	0.959	NDA
11	B1WC0011S001	N/A	4/27/2010	251902	0.00685	0.0205	0.0366	NDA	0.00409	0.0205	0.0397	NDA	-0.569	0.514	0.927	NDA
12	B1WC0012S001	N/A	4/27/2010	251902	0.127	0.0464	0.0422		0.0332	0.0272	0.0427	NDA	-0.229	0.535	0.943	NDA
13	B1WC0013S001	N/A	4/27/2010	251902	-0.034	0.0294	0.0446	NDA	-0.00199	0.018	0.0368	NDA	-0.194	0.539	0.947	NDA
14	B1WC0014S001	N/A	4/28/2010	251959	-0.0229	0.0231	0.0416	NDA	0.00564	0.0131	0.0241	NDA	0.894	0.674	1.12	NDA
15	B1WC0015S001	N/A	4/28/2010	251959	-0.0176	0.0188	0.0321	NDA	-0.0113	0.017	0.0379	NDA	-0.759	0.62	1.11	NDA
16	B1WC0016S001	N/A	4/28/2010	251959	0.0564	0.0238	0.0337		0.0192	0.0204	0.0336	NDA	-0.419	0.621	1.09	NDA
17	B1WC0017S001	N/A	4/28/2010	251959	-0.0186	0.0196	0.0324	NDA	0.0125	0.0216	0.0383	NDA	-0.196	0.638	1.11	NDA
18	B1WC0018S001	N/A	4/28/2010	251959	-0.0313	0.0218	0.0346	NDA	0.00619	0.0216	0.0401	NDA	-0.498	0.633	1.12	NDA
19	B1WC0027S001	N/A	6/17/2010	254961	-0.0156	0.0216	0.0351	NDA	0.0406	0.0268	0.0424	NDA	0	0.358	0.654	NDA
20	B1WC0028S001	N/A	6/17/2010	254961	-0.00437	0.0175	0.0308	NDA	-0.00768	0.0212	0.0398	NDA	0.206	0.366	0.633	NDA
21	B1WC0029S001	N/A	6/17/2010	255142	0.172	0.051	0.0501		0.0195	0.0247	0.0421	NDA	0.285	0.374	0.636	NDA
22	B1WC0030S001	N/A	6/17/2010	255142	0.0922	0.0231	0.0282		0.0357	0.0242	0.0387	NDA	0.36	0.387	0.647	NDA
23	B1WC0031S001	N/A	6/17/2010	255145	0	0.0311	0.0299	NDA	0.0644	0.0261	0.0325		0.0176	0.356	0.648	NDA
24	B1WC0032S001	N/A	6/17/2010	255145	0.156	0.0408	0.0393		0.0215	0.0182	0.0291	NDA	0.116	0.345	0.611	NDA
25	B1WC0033S001	N/A	6/17/2010	255146	-0.00858	0.0203	0.0347	NDA	0.0151	0.0232	0.0399	NDA	0.189	0.363	0.632	NDA
26	B1WC0034S001	N/A	6/17/2010	255146	0.0114	0.0216	0.0383	NDA	0.00576	0.0231	0.0409	NDA	0.137	0.359	0.633	NDA

	Cesium-137 (pCi/g)			Strontium-90 (pCi/g)			Tritium (pCi/g)		
	Activity	MDA	Non-detect?	Activity	MDA	Non-detect?	Activity	MDA	Non-detect?
Average	0.041	0.037		0.016	0.037		-0.152	0.918	
Maximum	0.229	0.050		0.064	0.043		0.894	1.120	
Minimum	-0.034	0.028		-0.011	0.024		-0.776	0.611	
Count			26			26			26
Number of Non-Detects			17			25			26
% Non-Detects			65%			96%			100%



Appendix 2
Radionuclide Results

ISRA Outfall 009 - B1-1

Project Name	Sampling Organization	Sampling Date	Sampling Location (General)	Sampling Location (Specific)	Sample Serial Number	Media Type	Isotope	Value	Error (+/-)	MDA	Non-Detect?	Units	Error Type	Analysis Protocol	Analysis Organization	Document	Status
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0001	B1WC0001S001	Soil	Americium-241	0.0141	0.0726	0.122	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0002	B1WC0002S001	Soil	Americium-241	0.0653	0.101	0.17	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0003	B1WC0003S001	Soil	Americium-241	0.0906	0.111	0.192	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0004	B1WC0004S001	Soil	Americium-241	0.0386	0.0569	0.0995	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0005	B1WC0005S001	Soil	Americium-241	-0.0182	0.0335	0.0582	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0006	B1WC0006S001	Soil	Americium-241	0.113	0.0815	0.143	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0007	B1WC0007S001	Soil	Americium-241	-0.00849	0.13	0.221	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0008	B1WC0008S001	Soil	Americium-241	0	0.191	0.324	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0009	B1WC0009S001	Soil	Americium-241	-0.0505	0.121	0.225	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0010	B1WC0010S001	Soil	Americium-241	0.12	0.0932	0.161	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0011	B1WC0011S001	Soil	Americium-241	0.0719	0.07	0.117	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0012	B1WC0012S001	Soil	Americium-241	0.0368	0.0373	0.0653	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0013	B1WC0013S001	Soil	Americium-241	0.0276	0.033	0.0544	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0014	B1WC0014S001	Soil	Americium-241	-0.0181	0.0244	0.0404	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0015	B1WC0015S001	Soil	Americium-241	-0.17	0.0897	0.164	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0016	B1WC0016S001	Soil	Americium-241	-0.0348	0.0561	0.104	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0017	B1WC0017S001	Soil	Americium-241	-0.0645	0.0747	0.143	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0018	B1WC0018S001	Soil	Americium-241	-0.0164	0.115	0.22	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1A	B1WC0027	B1WC0027S001	Soil	Americium-241	-0.0429	0.0907	0.177	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	254961	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1A	B1WC0028	B1WC0028S001	Soil	Americium-241	0.028	0.0614	0.105	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	254961	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1B	B1WC0029	B1WC0029S001	Soil	Americium-241	0.0934	0.218	0.359	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255142	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1B	B1WC0030	B1WC0030S001	Soil	Americium-241	-0.14	0.0986	0.164	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255142	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1C	B1WC0031	B1WC0031S001	Soil	Americium-241	0.00347	0.0729	0.123	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255145	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1C	B1WC0032	B1WC0032S001	Soil	Americium-241	0.0182	0.0275	0.0455	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255145	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1D	B1WC0033	B1WC0033S001	Soil	Americium-241	0.0145	0.11	0.208	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255146	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1D	B1WC0034	B1WC0034S001	Soil	Americium-241	-0.102	0.071	0.127	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255146	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0001	B1WC0001S001	Soil	Cesium-134	0	0.0457	0.053	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0002	B1WC0002S001	Soil	Cesium-134	0	0.0528	0.0611	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0003	B1WC0003S001	Soil	Cesium-134	0	0.0405	0.0606	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0004	B1WC0004S001	Soil	Cesium-134	0	0.0265	0.0446	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0005	B1WC0005S001	Soil	Cesium-134	0	0.0421	0.0628	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0006	B1WC0006S001	Soil	Cesium-134	0	0.0366	0.0514	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0007	B1WC0007S001	Soil	Cesium-134	0	0.0438	0.0575	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0008	B1WC0008S001	Soil	Cesium-134	0	0.0467	0.0633	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0009	B1WC0009S001	Soil	Cesium-134	0	0.0415	0.0561	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0010	B1WC0010S001	Soil	Cesium-134	0	0.048	0.0585	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0011	B1WC0011S001	Soil	Cesium-134	0	0.0427	0.0553	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0012	B1WC0012S001	Soil	Cesium-134	0	0.0446	0.0605	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0013	B1WC0013S001	Soil	Cesium-134	0	0.0505	0.0728	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0014	B1WC0014S001	Soil	Cesium-134	0	0.0346	0.0486	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0015	B1WC0015S001	Soil	Cesium-134	0	0.0284	0.0479	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0016	B1WC0016S001	Soil	Cesium-134	0	0.0315	0.0449	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0017	B1WC0017S001	Soil	Cesium-134	0.0479	0.0445	0.0495	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0018	B1WC0018S001	Soil	Cesium-134	0	0.0356	0.0492	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1A	B1WC0027	B1WC0027S001	Soil	Cesium-134	0	0.0296	0.0512	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	254961	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1A	B1WC0028	B1WC0028S001	Soil	Cesium-134	0	0.0363	0.0507	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	254961	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1B	B1WC0029	B1WC0029S001	Soil	Cesium-134	0	0.0502	0.0682	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255142	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1B	B1WC0030	B1WC0030S001	Soil	Cesium-134	0	0.0287	0.0437	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255142	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1C	B1WC0031	B1WC0031S001	Soil	Cesium-134	0	0.0251	0.0431	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255145	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1C	B1WC0032	B1WC0032S001	Soil	Cesium-134	0	0.0346	0.0544	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255145	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1D	B1WC0033	B1WC0033S001	Soil	Cesium-134	0	0.0414	0.058	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255146	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1D	B1WC0034	B1WC0034S001	Soil	Cesium-134	0	0.0449	0.0569	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255146	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0001	B1WC0001S001	Soil	Cesium-137	-0.0149	0.0213	0.0355	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0002	B1WC0002S001	Soil	Cesium-137	0.0651	0.0311	0.0399	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0003	B1WC0003S001	Soil	Cesium-137	-0.00529	0.0225	0.0388	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0004	B1WC0004S001	Soil	Cesium-137	0.207	0.0387	0.0313	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0005	B1WC0005S001	Soil	Cesium-137	0.229	0.0522	0.0406	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0006	B1WC0006S001	Soil	Cesium-137	0.00762	0.02	0.0352	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0007	B1WC0007S001	Soil	Cesium-137	0.0779	0.0302	0.0385	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0008	B1WC0008S001	Soil	Cesium-137	-0.0102	0.0251	0.0431	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0009	B1WC0009S001	Soil	Cesium-137	0.0308	0.0203	0.0385	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0010	B1WC0010S001	Soil	Cesium-137	-0.00238	0.0251	0.0416	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0011	B1WC0011S001	Soil	Cesium-137	0.00685	0.0205	0.0366	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	25190	

ISRA Outfall 009 - B1-1

Project Name	Sampling Organization	Sampling Date	Sampling Location (General)	Sampling Location (Specific)	Sample Serial Number	Media Type	Isotope	Value	Error (+/-)	MDA	Non-Detect?	Units	Error Type	Analysis Protocol	Analysis Organization	Document	Status
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0012	B1WC0012S001	Soil	Cesium-137	0.127	0.0464	0.0422		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0013	B1WC0013S001	Soil	Cesium-137	-0.034	0.0294	0.0446	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0014	B1WC0014S001	Soil	Cesium-137	-0.0229	0.0231	0.0416	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0015	B1WC0015S001	Soil	Cesium-137	-0.0176	0.0188	0.0321	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0016	B1WC0016S001	Soil	Cesium-137	0.0564	0.0238	0.0337		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0017	B1WC0017S001	Soil	Cesium-137	-0.0186	0.0196	0.0324	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0018	B1WC0018S001	Soil	Cesium-137	-0.0313	0.0218	0.0346	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1A	B1WC0027	B1WC0027S001	Soil	Cesium-137	-0.0156	0.0216	0.0351	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	254961	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1A	B1WC0028	B1WC0028S001	Soil	Cesium-137	-0.00437	0.0175	0.0308	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	254961	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1B	B1WC0029	B1WC0029S001	Soil	Cesium-137	0.172	0.051	0.0501		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255142	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1B	B1WC0030	B1WC0030S001	Soil	Cesium-137	0.0922	0.0231	0.0282		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255142	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1C	B1WC0031	B1WC0031S001	Soil	Cesium-137	0	0.0311	0.0299	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255145	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1C	B1WC0032	B1WC0032S001	Soil	Cesium-137	0.156	0.0408	0.0393		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255145	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1D	B1WC0033	B1WC0033S001	Soil	Cesium-137	-0.00858	0.0203	0.0347	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255146	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1D	B1WC0034	B1WC0034S001	Soil	Cesium-137	0.0114	0.0216	0.0383	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255146	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0001	B1WC0001S001	Soil	Cobalt-60	-0.0021	0.0205	0.0347	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0002	B1WC0002S001	Soil	Cobalt-60	-0.000866	0.0223	0.0383	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0003	B1WC0003S001	Soil	Cobalt-60	-0.0116	0.0276	0.0423	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0004	B1WC0004S001	Soil	Cobalt-60	0.00611	0.0186	0.0323	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0005	B1WC0005S001	Soil	Cobalt-60	0.0108	0.0252	0.0457	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0006	B1WC0006S001	Soil	Cobalt-60	0.00962	0.02	0.0351	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0007	B1WC0007S001	Soil	Cobalt-60	0.0145	0.0219	0.0399	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0008	B1WC0008S001	Soil	Cobalt-60	0.00252	0.028	0.0469	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0009	B1WC0009S001	Soil	Cobalt-60	-0.00997	0.0231	0.0382	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0010	B1WC0010S001	Soil	Cobalt-60	-0.0204	0.0241	0.0376	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0011	B1WC0011S001	Soil	Cobalt-60	-0.0104	0.0209	0.0328	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0012	B1WC0012S001	Soil	Cobalt-60	-0.0142	0.0279	0.0458	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0013	B1WC0013S001	Soil	Cobalt-60	-0.0224	0.026	0.0397	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0014	B1WC0014S001	Soil	Cobalt-60	-0.00898	0.0208	0.0342	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0015	B1WC0015S001	Soil	Cobalt-60	0.00884	0.0193	0.0347	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0016	B1WC0016S001	Soil	Cobalt-60	-0.00795	0.0195	0.0313	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0017	B1WC0017S001	Soil	Cobalt-60	0.0121	0.0214	0.0384	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0018	B1WC0018S001	Soil	Cobalt-60	0.0045	0.0203	0.0357	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1A	B1WC0027	B1WC0027S001	Soil	Cobalt-60	-0.0242	0.0225	0.0346	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	254961	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1A	B1WC0028	B1WC0028S001	Soil	Cobalt-60	-0.0169	0.0199	0.0306	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	254961	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1B	B1WC0029	B1WC0029S001	Soil	Cobalt-60	0.00125	0.0274	0.0459	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255142	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1B	B1WC0030	B1WC0030S001	Soil	Cobalt-60	-0.00666	0.0188	0.031	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255142	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1C	B1WC0031	B1WC0031S001	Soil	Cobalt-60	0.00236	0.0193	0.0331	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255145	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1C	B1WC0032	B1WC0032S001	Soil	Cobalt-60	-0.0023	0.0226	0.038	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255145	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1D	B1WC0033	B1WC0033S001	Soil	Cobalt-60	0.00301	0.022	0.0378	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255146	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1D	B1WC0034	B1WC0034S001	Soil	Cobalt-60	0.0112	0.0192	0.0344	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255146	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0001	B1WC0001S001	Soil	Europium-152	-0.0273	0.0847	0.0867	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0002	B1WC0002S001	Soil	Europium-152	-0.0033	0.0692	0.0994	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0003	B1WC0003S001	Soil	Europium-152	-0.0803	0.061	0.1	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0004	B1WC0004S001	Soil	Europium-152	-0.00557	0.0448	0.0776	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0005	B1WC0005S001	Soil	Europium-152	0.0164	0.0536	0.0963	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0006	B1WC0006S001	Soil	Europium-152	-0.0146	0.0635	0.0921	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0007	B1WC0007S001	Soil	Europium-152	-0.0283	0.0598	0.0911	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0008	B1WC0008S001	Soil	Europium-152	-0.0328	0.0879	0.124	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0009	B1WC0009S001	Soil	Europium-152	-0.00152	0.0553	0.0906	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0010	B1WC0010S001	Soil	Europium-152	-0.0403	0.0553	0.0933	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0011	B1WC0011S001	Soil	Europium-152	-0.0116	0.0556	0.089	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0012	B1WC0012S001	Soil	Europium-152	-0.0358	0.0658	0.0996	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0013	B1WC0013S001	Soil	Europium-152	-0.0341	0.0567	0.0947	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0014	B1WC0014S001	Soil	Europium-152	0.028	0.0449	0.0817	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0015	B1WC0015S001	Soil	Europium-152	-0.0492	0.0663	0.094	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0016	B1WC0016S001	Soil	Europium-152	-0.00387	0.0463	0.0826	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0017	B1WC0017S001	Soil	Europium-152	-0.00554	0.0686	0.0843	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0018	B1WC0018S001	Soil	Europium-152	-0.00859	0.0507	0.0837	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1A	B1WC0027	B1WC0027S001	Soil	Europium-152	-0.00402	0.0568	0.0949	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	254961	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1A	B1WC0028	B1WC0028S001	Soil	Europium-152	-0.00859	0.0446	0.0793	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	254961	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1B	B1WC0029	B1WC0029S001	Soil	Europium-152	0.0212	0.0942	0.138	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255142	Waste
2010 ISRA Waste Characterization	MWH																

ISRA Outfall 009 - B1-1

Project Name	Sampling Organization	Sampling Date	Sampling Location (General)	Sampling Location (Specific)	Sample Serial Number	Media Type	Isotope	Value	Error (+/-)	MDA	Non-Detect?	Units	Error Type	Analysis Protocol	Analysis Organization	Document	Status
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1C	B1WC0031	B1WC0031S001	Soil	Europium-152	0.0196	0.0677	0.0847	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255145	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1C	B1WC0032	B1WC0032S001	Soil	Europium-152	0.00844	0.0478	0.0811	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255145	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1D	B1WC0033	B1WC0033S001	Soil	Europium-152	-0.00677	0.0595	0.0915	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255146	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1D	B1WC0034	B1WC0034S001	Soil	Europium-152	-0.0326	0.0692	0.0915	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255146	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0001	B1WC0001S001	Soil	Europium-154	-0.0221	0.0686	0.115	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0002	B1WC0002S001	Soil	Europium-154	-0.016	0.0822	0.137	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0003	B1WC0003S001	Soil	Europium-154	-0.0528	0.0802	0.129	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0004	B1WC0004S001	Soil	Europium-154	0.0563	0.0582	0.105	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0005	B1WC0005S001	Soil	Europium-154	-0.0182	0.0799	0.131	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0006	B1WC0006S001	Soil	Europium-154	0.00392	0.0669	0.115	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0007	B1WC0007S001	Soil	Europium-154	-0.00866	0.0737	0.127	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0008	B1WC0008S001	Soil	Europium-154	-0.016	0.0821	0.135	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0009	B1WC0009S001	Soil	Europium-154	-0.0774	0.0744	0.114	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0010	B1WC0010S001	Soil	Europium-154	-0.0108	0.0769	0.128	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0011	B1WC0011S001	Soil	Europium-154	-0.0496	0.0726	0.114	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0012	B1WC0012S001	Soil	Europium-154	0.0239	0.0884	0.151	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0013	B1WC0013S001	Soil	Europium-154	-0.0893	0.0934	0.146	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0014	B1WC0014S001	Soil	Europium-154	0.00774	0.0636	0.11	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0015	B1WC0015S001	Soil	Europium-154	-0.0113	0.0657	0.114	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0016	B1WC0016S001	Soil	Europium-154	-0.0686	0.0609	0.092	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0017	B1WC0017S001	Soil	Europium-154	0.0128	0.0625	0.11	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0018	B1WC0018S001	Soil	Europium-154	-0.0269	0.0659	0.111	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1A	B1WC0027	B1WC0027S001	Soil	Europium-154	-0.00666	0.0696	0.119	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	254961	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1A	B1WC0028	B1WC0028S001	Soil	Europium-154	0.0378	0.0589	0.103	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	254961	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1B	B1WC0029	B1WC0029S001	Soil	Europium-154	0.0186	0.0944	0.16	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255142	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1B	B1WC0030	B1WC0030S001	Soil	Europium-154	-0.0705	0.059	0.0923	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255142	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1C	B1WC0031	B1WC0031S001	Soil	Europium-154	-0.028	0.0586	0.098	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255145	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1C	B1WC0032	B1WC0032S001	Soil	Europium-154	-0.00342	0.0749	0.127	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255145	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1D	B1WC0033	B1WC0033S001	Soil	Europium-154	-0.00345	0.0686	0.117	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255146	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1D	B1WC0034	B1WC0034S001	Soil	Europium-154	-0.0282	0.0623	0.103	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255146	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0001	B1WC0001S001	Soil	Manganese-54	-0.0286	0.0211	0.0327	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0002	B1WC0002S001	Soil	Manganese-54	0.0028	0.0222	0.0387	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0003	B1WC0003S001	Soil	Manganese-54	0.0133	0.0215	0.0381	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0004	B1WC0004S001	Soil	Manganese-54	0.00427	0.0165	0.0299	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0005	B1WC0005S001	Soil	Manganese-54	-0.0312	0.0241	0.0385	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0006	B1WC0006S001	Soil	Manganese-54	-0.00136	0.0193	0.0337	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0007	B1WC0007S001	Soil	Manganese-54	0.0108	0.0212	0.0378	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0008	B1WC0008S001	Soil	Manganese-54	0.0066	0.0249	0.0437	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0009	B1WC0009S001	Soil	Manganese-54	0.0119	0.0213	0.0378	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0010	B1WC0010S001	Soil	Manganese-54	-0.00848	0.0249	0.0397	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0011	B1WC0011S001	Soil	Manganese-54	0.00631	0.0203	0.0356	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0012	B1WC0012S001	Soil	Manganese-54	0.0521	0.0275	0.0529	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0013	B1WC0013S001	Soil	Manganese-54	0.00686	0.0281	0.0493	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0014	B1WC0014S001	Soil	Manganese-54	-0.00144	0.0195	0.0336	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0015	B1WC0015S001	Soil	Manganese-54	0.00793	0.0215	0.0333	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0016	B1WC0016S001	Soil	Manganese-54	-0.0144	0.019	0.0317	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0017	B1WC0017S001	Soil	Manganese-54	0.00162	0.0192	0.0332	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0018	B1WC0018S001	Soil	Manganese-54	0.00249	0.0198	0.0346	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1A	B1WC0027	B1WC0027S001	Soil	Manganese-54	0.00788	0.0213	0.0376	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	254961	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1A	B1WC0028	B1WC0028S001	Soil	Manganese-54	0.0149	0.0175	0.032	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	254961	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1B	B1WC0029	B1WC0029S001	Soil	Manganese-54	0.017	0.0283	0.0505	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255142	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1B	B1WC0030	B1WC0030S001	Soil	Manganese-54	-0.012	0.0174	0.0288	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255142	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1C	B1WC0031	B1WC0031S001	Soil	Manganese-54	0.00408	0.0185	0.0326	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255145	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1C	B1WC0032	B1WC0032S001	Soil	Manganese-54	-0.00896	0.0218	0.0367	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255145	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1D	B1WC0033	B1WC0033S001	Soil	Manganese-54	0.00369	0.0228	0.0394	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255146	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1D	B1WC0034	B1WC0034S001	Soil	Manganese-54	0.00403	0.0213	0.0366	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255146	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0001	B1WC0001S001	Soil	Potassium-40	22.3	2.14	2.83	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0002	B1WC0002S001	Soil	Potassium-40	20	2.01	3.55	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0003	B1WC0003S001	Soil	Potassium-40	21.5	2.24	3.42	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0004	B1WC0004S001	Soil	Potassium-40	21.5	2.01	2.47	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0005	B1WC0005S001	Soil	Potassium-40	21.1	2.14	3.55	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0006	B1WC0006S001	Soil	Potassium-40	23	2.25	2.95	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0007	B1WC0007S001	Soil											

ISRA Outfall 009 - B1-1

Project Name	Sampling Organization	Sampling Date	Sampling Location (General)	Sampling Location (Specific)	Sample Serial Number	Media Type	Isotope	Value	Error (+/-)	MDA	Non-Detect?	Units	Error Type	Analysis Protocol	Analysis Organization	Document	Status
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0008	B1WC0008S001	Soil	Potassium-40	21.5	2.32	0.419		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0009	B1WC0009S001	Soil	Potassium-40	23.4	0.988	0.306		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0010	B1WC0010S001	Soil	Potassium-40	24.4	2.44	0.295		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0011	B1WC0011S001	Soil	Potassium-40	22	2.12	0.314		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0012	B1WC0012S001	Soil	Potassium-40	21.2	2.2	0.332		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0013	B1WC0013S001	Soil	Potassium-40	23.1	2.34	0.376		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0014	B1WC0014S001	Soil	Potassium-40	20.2	1.89	0.218		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0015	B1WC0015S001	Soil	Potassium-40	21.5	2.45	0.284		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0016	B1WC0016S001	Soil	Potassium-40	21.8	2.06	0.182		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0017	B1WC0017S001	Soil	Potassium-40	19.8	1.95	0.296		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0018	B1WC0018S001	Soil	Potassium-40	20.8	1.74	0.267		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1A	B1WC0027	B1WC0027S001	Soil	Potassium-40	21.4	2.22	0.296		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	254961	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1A	B1WC0028	B1WC0028S001	Soil	Potassium-40	22.5	2.11	0.226		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	254961	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1B	B1WC0029	B1WC0029S001	Soil	Potassium-40	25.2	2.69	0.433		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255142	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1B	B1WC0030	B1WC0030S001	Soil	Potassium-40	22.9	2.35	0.249		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255142	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1C	B1WC0031	B1WC0031S001	Soil	Potassium-40	23.3	2.24	0.219		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255145	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1C	B1WC0032	B1WC0032S001	Soil	Potassium-40	23	2.16	0.289		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255145	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1D	B1WC0033	B1WC0033S001	Soil	Potassium-40	21.8	2.2	0.276		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255146	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1D	B1WC0034	B1WC0034S001	Soil	Potassium-40	21.3	2.07	0.311		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255146	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0001	B1WC0001S001	Soil	Sodium-22	-0.00694	0.0241	0.0407	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0002	B1WC0002S001	Soil	Sodium-22	-0.00696	0.0288	0.0479	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0003	B1WC0003S001	Soil	Sodium-22	-0.0239	0.0285	0.0452	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0004	B1WC0004S001	Soil	Sodium-22	0.0187	0.0203	0.0368	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0005	B1WC0005S001	Soil	Sodium-22	-0.0112	0.0284	0.0458	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0006	B1WC0006S001	Soil	Sodium-22	0.0019	0.0235	0.0406	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0007	B1WC0007S001	Soil	Sodium-22	-0.00763	0.0262	0.0444	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0008	B1WC0008S001	Soil	Sodium-22	-0.00212	0.0287	0.0475	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0009	B1WC0009S001	Soil	Sodium-22	-0.0262	0.026	0.04	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0010	B1WC0010S001	Soil	Sodium-22	-0.00378	0.027	0.0449	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0011	B1WC0011S001	Soil	Sodium-22	-0.0142	0.0252	0.0399	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0012	B1WC0012S001	Soil	Sodium-22	-0.00898	0.0327	0.0528	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0013	B1WC0013S001	Soil	Sodium-22	-0.031	0.0327	0.0513	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0014	B1WC0014S001	Soil	Sodium-22	-0.00688	0.023	0.0386	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0015	B1WC0015S001	Soil	Sodium-22	-0.00397	0.0231	0.04	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0016	B1WC0016S001	Soil	Sodium-22	-0.0267	0.0216	0.0323	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0017	B1WC0017S001	Soil	Sodium-22	0.0073	0.0218	0.0386	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0018	B1WC0018S001	Soil	Sodium-22	-0.0116	0.0233	0.0389	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1A	B1WC0027	B1WC0027S001	Soil	Sodium-22	-0.00142	0.0245	0.0419	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	254961	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1A	B1WC0028	B1WC0028S001	Soil	Sodium-22	0.018	0.0204	0.0364	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	254961	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1B	B1WC0029	B1WC0029S001	Soil	Sodium-22	-0.00604	0.0339	0.0561	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255142	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1B	B1WC0030	B1WC0030S001	Soil	Sodium-22	-0.0244	0.0207	0.0325	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255142	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1C	B1WC0031	B1WC0031S001	Soil	Sodium-22	-0.00928	0.0206	0.0345	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255145	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1C	B1WC0032	B1WC0032S001	Soil	Sodium-22	-0.00583	0.0265	0.0445	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255145	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1D	B1WC0033	B1WC0033S001	Soil	Sodium-22	-0.00193	0.024	0.0409	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255146	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1D	B1WC0034	B1WC0034S001	Soil	Sodium-22	-0.00989	0.0219	0.0362	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255146	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0001	B1WC0001S001	Soil	Strontium-90	0.0213	0.0228	0.0376	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0002	B1WC0002S001	Soil	Strontium-90	0.00755	0.0181	0.0334	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0003	B1WC0003S001	Soil	Strontium-90	-0.00558	0.0148	0.0328	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0004	B1WC0004S001	Soil	Strontium-90	0.0268	0.0237	0.0379	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0005	B1WC0005S001	Soil	Strontium-90	0.0318	0.0219	0.0329	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0006	B1WC0006S001	Soil	Strontium-90	0.0203	0.0185	0.0294	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0007	B1WC0007S001	Soil	Strontium-90	0.00422	0.0182	0.0345	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0008	B1WC0008S001	Soil	Strontium-90	0.0153	0.0221	0.0384	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0009	B1WC0009S001	Soil	Strontium-90	0.00905	0.0214	0.039	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0010	B1WC0010S001	Soil	Strontium-90	0.0183	0.0239	0.0408	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0011	B1WC0011S001	Soil	Strontium-90	0.00409	0.0205	0.0397	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0012	B1WC0012S001	Soil	Strontium-90	0.0332	0.0272	0.0427	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0013	B1WC0013S001	Soil	Strontium-90	-0.00199	0.018	0.0368	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0014	B1WC0014S001	Soil	Strontium-90	0.00564	0.0131	0.0241	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0015	B1WC0015S001	Soil	Strontium-90	-0.0113	0.017	0.0379	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0016	B1WC0016S001	Soil	Strontium-90	0.0192	0.0204	0.0336	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0017	B1WC0017S001	Soil	Strontium-90	0.0125	0.0216	0.0383	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0018	B1WC0018S001	Soil	Strontium-90	0.00619	0.0216	0.0401	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	251959	Waste

ISRA Outfall 009 - B1-1

Project Name	Sampling Organization	Sampling Date	Sampling Location (General)	Sampling Location (Specific)	Sample Serial Number	Media Type	Isotope	Value	Error (+/-)	MDA	Non-Detect?	Units	Error Type	Analysis Protocol	Analysis Organization	Document	Status
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1A	B1WC0027	B1WC0027S001	Soil	Strontium-90	0.0406	0.0268	0.0424	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	254961	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1A	B1WC0028	B1WC0028S001	Soil	Strontium-90	-0.00768	0.0212	0.0398	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	254961	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1B	B1WC0029	B1WC0029S001	Soil	Strontium-90	0.0195	0.0247	0.0421	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	255142	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1B	B1WC0030	B1WC0030S001	Soil	Strontium-90	0.0357	0.0242	0.0387	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	255142	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1C	B1WC0031	B1WC0031S001	Soil	Strontium-90	0.0644	0.0261	0.0325	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	255145	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1C	B1WC0032	B1WC0032S001	Soil	Strontium-90	0.0215	0.0182	0.0291	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	255145	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1D	B1WC0033	B1WC0033S001	Soil	Strontium-90	0.0151	0.0232	0.0399	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	255146	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1D	B1WC0034	B1WC0034S001	Soil	Strontium-90	0.00576	0.0231	0.0409	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	255146	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0001	B1WC0001S001	Soil	Thorium-228	1.37	0.143	0.0523		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0002	B1WC0002S001	Soil	Thorium-228	1.41	0.158	0.0585		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0003	B1WC0003S001	Soil	Thorium-228	1.31	0.149	0.06		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0004	B1WC0004S001	Soil	Thorium-228	1.25	0.18	0.0446		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0005	B1WC0005S001	Soil	Thorium-228	1.12	0.128	0.0565		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0006	B1WC0006S001	Soil	Thorium-228	1.5	0.206	0.0591		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0007	B1WC0007S001	Soil	Thorium-228	1.42	0.131	0.053		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0008	B1WC0008S001	Soil	Thorium-228	1.54	0.199	0.0735		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0009	B1WC0009S001	Soil	Thorium-228	1.42	0.0667	0.0556		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0010	B1WC0010S001	Soil	Thorium-228	1.34	0.143	0.0592		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0011	B1WC0011S001	Soil	Thorium-228	1.62	0.183	0.0534		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0012	B1WC0012S001	Soil	Thorium-228	1.4	0.157	0.0558		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0013	B1WC0013S001	Soil	Thorium-228	1.51	0.165	0.0567		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0014	B1WC0014S001	Soil	Thorium-228	1.26	0.151	0.0445		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0015	B1WC0015S001	Soil	Thorium-228	1.26	0.136	0.0561		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0016	B1WC0016S001	Soil	Thorium-228	1.33	0.152	0.0489		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0017	B1WC0017S001	Soil	Thorium-228	1.21	0.127	0.0494		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0018	B1WC0018S001	Soil	Thorium-228	1.28	0.12	0.0519		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1A	B1WC0027	B1WC0027S001	Soil	Thorium-228	1.35	0.179	0.0553		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	254961	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1A	B1WC0028	B1WC0028S001	Soil	Thorium-228	1.34	0.152	0.0448		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	254961	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1B	B1WC0029	B1WC0029S001	Soil	Thorium-228	1.93	0.246	0.0822		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255142	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1B	B1WC0030	B1WC0030S001	Soil	Thorium-228	1.33	0.141	0.0468		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255142	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1C	B1WC0031	B1WC0031S001	Soil	Thorium-228	1.41	0.192	0.0515		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255145	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1C	B1WC0032	B1WC0032S001	Soil	Thorium-228	1.39	0.167	0.0456		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255145	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1D	B1WC0033	B1WC0033S001	Soil	Thorium-228	1.37	0.159	0.0578		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255146	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1D	B1WC0034	B1WC0034S001	Soil	Thorium-228	1.5	0.155	0.054		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255146	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0001	B1WC0001S001	Soil	Thorium-232	1.5	0.258	0.141		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0002	B1WC0002S001	Soil	Thorium-232	1.5	0.262	0.129		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0003	B1WC0003S001	Soil	Thorium-232	1.39	0.26	0.149		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0004	B1WC0004S001	Soil	Thorium-232	1.33	0.226	0.103		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0005	B1WC0005S001	Soil	Thorium-232	1.35	0.243	0.151		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0006	B1WC0006S001	Soil	Thorium-232	1.52	0.254	0.124		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0007	B1WC0007S001	Soil	Thorium-232	1.45	0.262	0.13		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0008	B1WC0008S001	Soil	Thorium-232	1.61	0.29	0.15		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0009	B1WC0009S001	Soil	Thorium-232	1.37	0.185	0.138		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0010	B1WC0010S001	Soil	Thorium-232	1.35	0.262	0.139		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0011	B1WC0011S001	Soil	Thorium-232	1.65	0.276	0.126		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0012	B1WC0012S001	Soil	Thorium-232	1.4	0.265	0.166		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0013	B1WC0013S001	Soil	Thorium-232	1.61	0.319	0.181		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0014	B1WC0014S001	Soil	Thorium-232	1.23	0.217	0.119		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0015	B1WC0015S001	Soil	Thorium-232	1.41	0.271	0.125		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0016	B1WC0016S001	Soil	Thorium-232	1.3	0.213	0.114		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0017	B1WC0017S001	Soil	Thorium-232	1.44	0.253	0.116		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0018	B1WC0018S001	Soil	Thorium-232	1.28	0.23	0.118		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1A	B1WC0027	B1WC0027S001	Soil	Thorium-232	1.32	0.247	0.132		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	254961	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1A	B1WC0028	B1WC0028S001	Soil	Thorium-232	1.42	0.23	0.113		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	254961	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1B	B1WC0029	B1WC0029S001	Soil	Thorium-232	1.96	0.329	0.165		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255142	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1B	B1WC0030	B1WC0030S001	Soil	Thorium-232	1.3	0.227	0.107		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255142	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1C	B1WC0031	B1WC0031S001	Soil	Thorium-232	1.38	0.243	0.116		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255145	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1C	B1WC0032	B1WC0032S001	Soil	Thorium-232	1.36	0.228	0.127		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255145	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1D	B1WC0033	B1WC0033S001	Soil	Thorium-232	1.49	0.257	0.13		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255146	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1D	B1WC0034	B1WC0034S001	Soil	Thorium-232	1.76	0.287	0.121		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255146	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0001	B1WC0001S001	Soil	Tritium	-0.103	0.637	1.1	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0002	B1WC0002S001	Soil	Tritium	-0.552	0.626	1.1	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0003	B1WC0003S001	Soil	Tritium	-0.241	0.633	1.1	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	251959	Waste

ISRA Outfall 009 - B1-1

Project Name	Sampling Organization	Sampling Date	Sampling Location (General)	Sampling Location (Specific)	Sample Serial Number	Media Type	Isotope	Value	Error (+/-)	MDA	Non-Detect?	Units	Error Type	Analysis Protocol	Analysis Organization	Document	Status
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0004	B1WC0004S001	Soil	Tritium	-0.14	0.646	1.12	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0005	B1WC0005S001	Soil	Tritium	-0.776	0.624	1.11	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0006	B1WC0006S001	Soil	Tritium	-0.312	0.636	1.11	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0007	B1WC0007S001	Soil	Tritium	-0.376	0.534	0.95	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0008	B1WC0008S001	Soil	Tritium	-0.39	0.519	0.924	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0009	B1WC0009S001	Soil	Tritium	-0.341	0.512	0.911	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0010	B1WC0010S001	Soil	Tritium	-0.0613	0.551	0.959	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0011	B1WC0011S001	Soil	Tritium	-0.569	0.514	0.927	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0012	B1WC0012S001	Soil	Tritium	-0.229	0.535	0.943	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0013	B1WC0013S001	Soil	Tritium	-0.194	0.539	0.947	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0014	B1WC0014S001	Soil	Tritium	0.894	0.674	1.12	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0015	B1WC0015S001	Soil	Tritium	-0.759	0.62	1.11	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0016	B1WC0016S001	Soil	Tritium	-0.419	0.621	1.09	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0017	B1WC0017S001	Soil	Tritium	-0.196	0.638	1.11	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0018	B1WC0018S001	Soil	Tritium	-0.498	0.633	1.12	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1A	B1WC0027	B1WC0027S001	Soil	Tritium	0	0.358	0.654	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	254961	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1A	B1WC0028	B1WC0028S001	Soil	Tritium	0.206	0.366	0.633	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	254961	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1B	B1WC0029	B1WC0029S001	Soil	Tritium	0.285	0.374	0.636	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	255142	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1B	B1WC0030	B1WC0030S001	Soil	Tritium	0.36	0.387	0.647	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	255142	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1C	B1WC0031	B1WC0031S001	Soil	Tritium	0.0176	0.356	0.648	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	255145	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1C	B1WC0032	B1WC0032S001	Soil	Tritium	0.116	0.345	0.611	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	255145	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1D	B1WC0033	B1WC0033S001	Soil	Tritium	0.189	0.363	0.632	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	255146	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1D	B1WC0034	B1WC0034S001	Soil	Tritium	0.137	0.359	0.633	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	255146	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0001	B1WC0001S001	Soil	Uranium-235	0.123	0.114	0.204	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0002	B1WC0002S001	Soil	Uranium-235	0.117	0.126	0.227	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0003	B1WC0003S001	Soil	Uranium-235	0.0362	0.129	0.225	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0004	B1WC0004S001	Soil	Uranium-235	0.0777	0.086	0.159	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0005	B1WC0005S001	Soil	Uranium-235	-0.0204	0.111	0.193	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0006	B1WC0006S001	Soil	Uranium-235	0.153	0.121	0.216	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0007	B1WC0007S001	Soil	Uranium-235	0.0328	0.109	0.196	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0008	B1WC0008S001	Soil	Uranium-235	0.0716	0.159	0.262	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0009	B1WC0009S001	Soil	Uranium-235	0.122	0.115	0.203	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0010	B1WC0010S001	Soil	Uranium-235	-0.0135	0.126	0.211	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0011	B1WC0011S001	Soil	Uranium-235	0.0524	0.12	0.203	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0012	B1WC0012S001	Soil	Uranium-235	0.0461	0.121	0.212	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0013	B1WC0013S001	Soil	Uranium-235	0.00409	0.105	0.189	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0014	B1WC0014S001	Soil	Uranium-235	0.0165	0.0818	0.149	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0015	B1WC0015S001	Soil	Uranium-235	-0.00945	0.122	0.214	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0016	B1WC0016S001	Soil	Uranium-235	0.133	0.13	0.168	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0017	B1WC0017S001	Soil	Uranium-235	0.0533	0.109	0.195	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0018	B1WC0018S001	Soil	Uranium-235	0.0443	0.109	0.192	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1A	B1WC0027	B1WC0027S001	Soil	Uranium-235	0.152	0.121	0.214	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	254961	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1A	B1WC0028	B1WC0028S001	Soil	Uranium-235	0.0227	0.1	0.173	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	254961	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1B	B1WC0029	B1WC0029S001	Soil	Uranium-235	0.000738	0.177	0.305	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255142	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1B	B1WC0030	B1WC0030S001	Soil	Uranium-235	-0.0202	0.105	0.176	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255142	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1C	B1WC0031	B1WC0031S001	Soil	Uranium-235	-0.00435	0.108	0.19	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255145	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1C	B1WC0032	B1WC0032S001	Soil	Uranium-235	0.118	0.115	0.151	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255145	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1D	B1WC0033	B1WC0033S001	Soil	Uranium-235	0.0845	0.118	0.216	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255146	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1D	B1WC0034	B1WC0034S001	Soil	Uranium-235	0.0168	0.115	0.204	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255146	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0001	B1WC0001S001	Soil	Uranium-238	1.9	0.874	1.11	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0002	B1WC0002S001	Soil	Uranium-238	1.78	1.22	1.41	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0003	B1WC0003S001	Soil	Uranium-238	1.27	1.26	1.55	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0004	B1WC0004S001	Soil	Uranium-238	1.04	0.771	0.835	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0005	B1WC0005S001	Soil	Uranium-238	0.78	0.577	0.595	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0006	B1WC0006S001	Soil	Uranium-238	1.05	1	1.19	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0007	B1WC0007S001	Soil	Uranium-238	1.75	1.38	1.78	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0008	B1WC0008S001	Soil	Uranium-238	2.41	1.86	2.45	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0009	B1WC0009S001	Soil	Uranium-238	0.818	1.02	1.88	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0010	B1WC0010S001	Soil	Uranium-238	1.33	1.07	1.29	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0011	B1WC0011S001	Soil	Uranium-238	0.941	0.879	1.05	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0012	B1WC0012S001	Soil	Uranium-238	0.763	0.534	0.656	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/27/2010	B1-1	B1WC0013	B1WC0013S001	Soil	Uranium-238	1.2	0.565	0.545	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251902	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0014	B1WC0014S001	Soil	Uranium-238	0.868	0.456	0.419	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste

ISRA Outfall 009 - B1-1

Project Name	Sampling Organization	Sampling Date	Sampling Location (General)	Sampling Location (Specific)	Sample Serial Number	Media Type	Isotope	Value	Error (+/-)	MDA	Non-Detect?	Units	Error Type	Analysis Protocol	Analysis Organization	Document	Status
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0015	B1WC0015S001	Soil	Uranium-238	0.256	0.793	1.49	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0016	B1WC0016S001	Soil	Uranium-238	0.574	0.569	1.06	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0017	B1WC0017S001	Soil	Uranium-238	0.283	0.697	1.31	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	4/28/2010	B1-1	B1WC0018	B1WC0018S001	Soil	Uranium-238	-0.0636	0.991	1.81	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	251959	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1A	B1WC0027	B1WC0027S001	Soil	Uranium-238	0.679	0.86	1.65	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	254961	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1A	B1WC0028	B1WC0028S001	Soil	Uranium-238	0.979	0.82	0.934		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	254961	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1B	B1WC0029	B1WC0029S001	Soil	Uranium-238	2.27	1.94	2.74	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255142	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1B	B1WC0030	B1WC0030S001	Soil	Uranium-238	0.577	0.816	1.5	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255142	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1C	B1WC0031	B1WC0031S001	Soil	Uranium-238	1.61	0.977	1.07		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255145	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1C	B1WC0032	B1WC0032S001	Soil	Uranium-238	0.783	0.474	0.439		pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255145	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1D	B1WC0033	B1WC0033S001	Soil	Uranium-238	0.322	0.945	1.77	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255146	Waste
2010 ISRA Waste Characterization	MWH	6/17/2010	B1-1D	B1WC0034	B1WC0034S001	Soil	Uranium-238	0.766	0.647	1.21	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	255146	Waste

Outfall 009 Waste Characterization Sample Locations for B1-1A

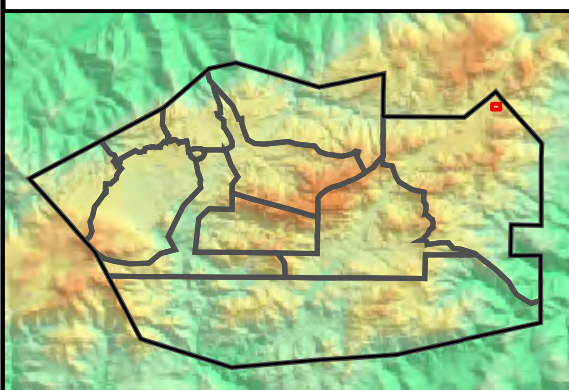
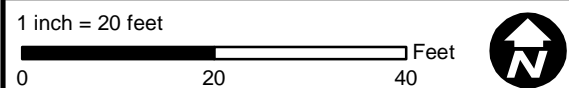
- Base Map Legend**
- Administrative Area Boundary
 - RFI Site Boundary
 - Report Group Boundary
 - NPDES Outfall
 - A/C Paving
 - Drainage
 - Non Jurisdictional Surface Water Pathway
 - Surface Water Divide
 - Elevation Contour

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

Note:

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

Document: ISRA_Plots_SP_B1-1A_SampleLocations_062110_WC.mxd Date: Jun 21, 2010



S A N T A S U S A N A F I E L D L A B O R A T O R Y

FIGURE 1

Outfall 009 Waste Characterization Sample Locations for B1-1B

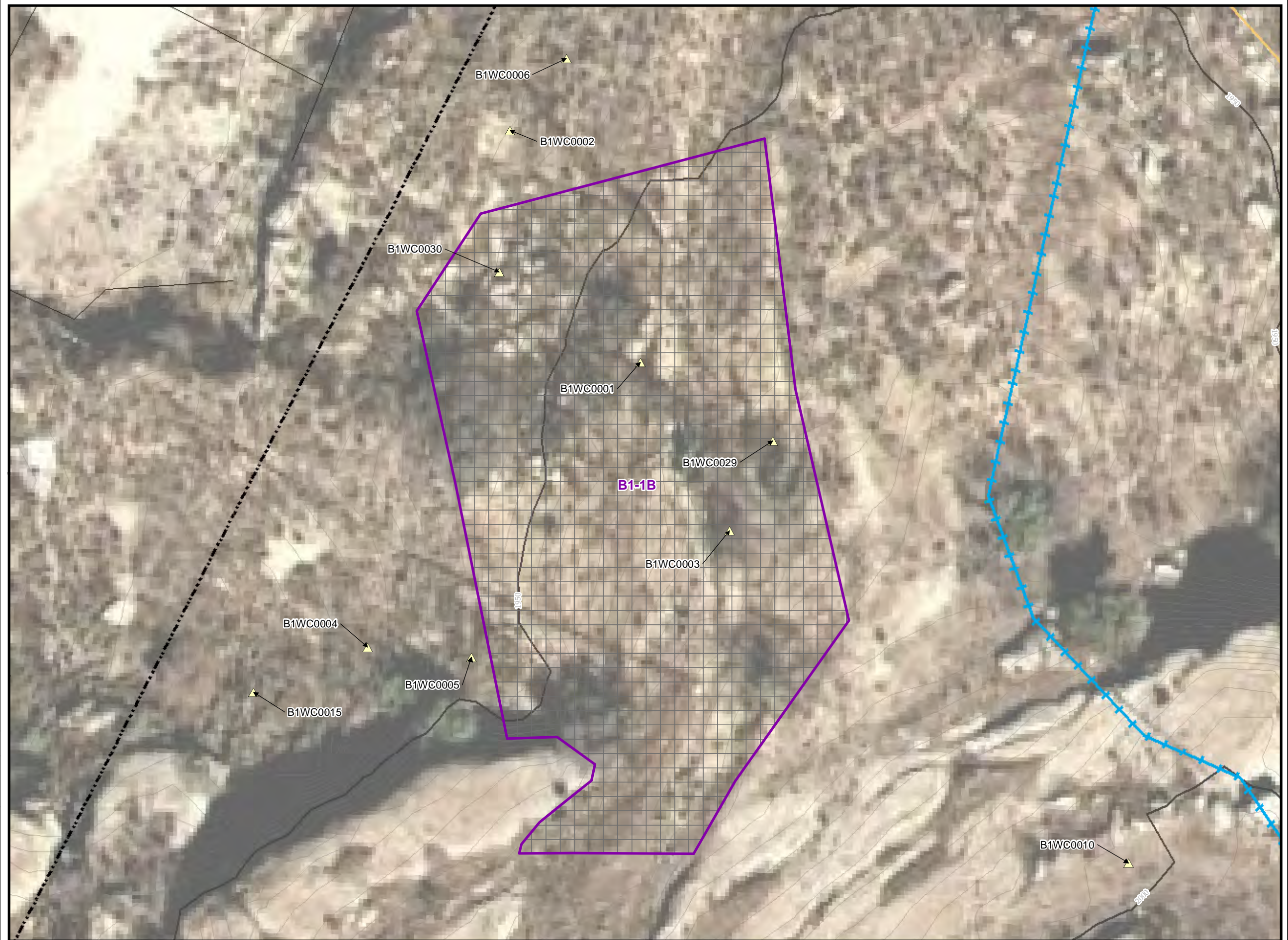
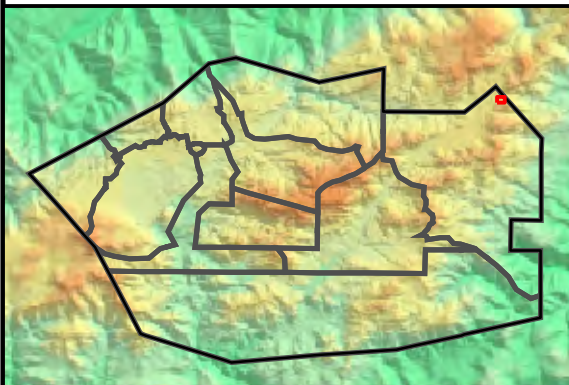
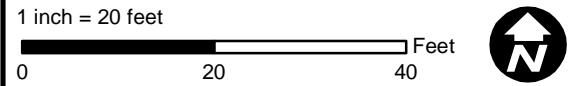
- Base Map Legend**
- Administrative Area Boundary
 - RFI Site Boundary
 - Report Group Boundary
 - NPDES Outfall
 - A/C Paving
 - Drainage
 - Non Jurisdictional Surface Water Pathway
 - Surface Water Divide
 - Elevation Contour

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

Note:

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

Document: ISRA_Plots_SP_B1-1B_SampleLocations_062110_WC.mxd Date: Jun 21, 2010



SANTA SUSANA FIELD LABORATORY

FIGURE 1

Outfall 009 Waste Characterization Sample Locations for B1-1C and B1-1D

Base Map Legend

- Administrative Area Boundary
- RFI Site Boundary
- Report Group Boundary
- NPDES Outfall
- A/C Paving
- Drainage
- Non Jurisdictional Surface Water Pathway
- Surface Water Divide
- Elevation Contour

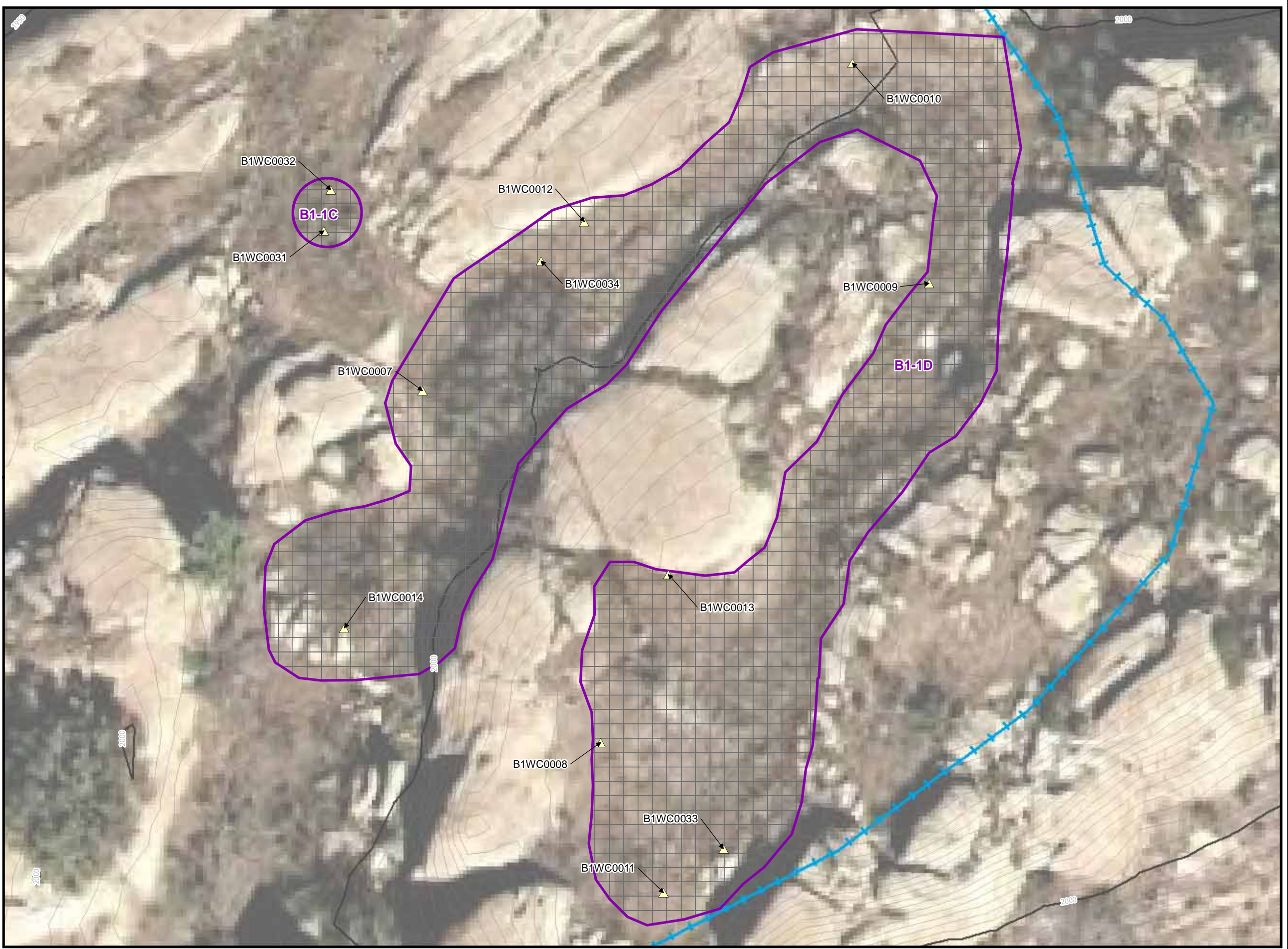
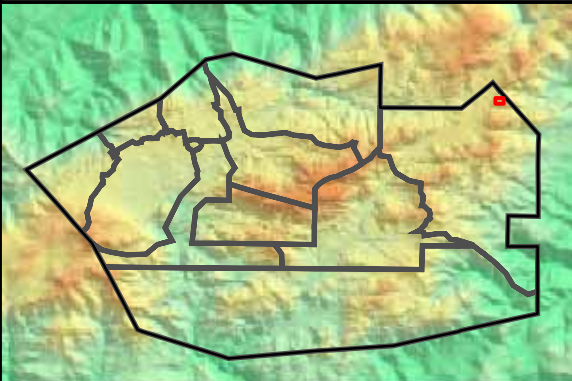
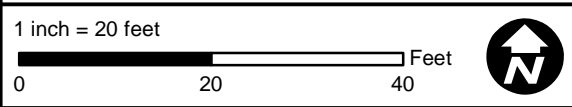
Base Map Legend

- ISRA Excavation Boundary
- Waste Characterization Sample Location

Note:

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

Document: ISRA_Plots_SP_B1-1C&1D_SampleLocations_062110_WC.mxd Date: Jun 21, 2010



SANTA SUSANA FIELD LABORATORY

FIGURE 1