

**ISRA 009 – AP/STP-1C1.
Soil Sampling for Radionuclides.
Results and Statistical Analysis.
Waste Certification.**

This data package provides the laboratory results and statistical analysis of the 20 samples taken at the ISRA Outfall 009, AP/STP-1C1 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 ~0.045 pCi/g and ~0.047 pCi/g respectively. Minimum detectable activity for tritium averaged ~0.89 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 AP/STP-1C1 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 0.209 +/- 0.057 pCi/g which is statistically equivalent to the highest background result of 0.213 +/- 0.04 pCi/g.

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 (Effective January 1, 2007) - <http://epa-prgs.ornl.gov/radionuclides/>.

The highest non-background subtracted Cs-137 result is equivalent to an effective dose of 0.20 mrem/y⁶.

Strontium-90 - Based on the results of the statistical analysis of Appendix 1, soil to be excavated from AP/STP-1C1 does not exceed the local background for Sr-90. The incremental dose from Sr-90 above background is therefore zero mrem/y. All Sr-90 results are non-detect. The highest Sr-90 result is 0.043 pCi/g which is non-detect and less than the highest background result of 0.13 pCi/g. The highest non-background subtracted, non-detect Sr-90 result is equivalent to an effective dose of 0.0025 mrem/y⁶.

Tritium - All tritium results are non-detect, the average tritium result is 0.031 pCi/g and the highest tritium result is 0.515 pCi/g. The highest non-detected, non-background subtracted tritium result is equivalent to an effective dose of 0.11 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 AP/STP-1C1 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

⁶ EPA dose compliance considerations for radionuclides (Effective August 3, 2010) - <http://epa-dccs.ornl.gov/>. Soil concentrations that meet the 10⁻⁶ residential risk PRG are < 0.5 mrem/y. The Cs-137 residential PRG of 0.0597 pCi/g is equivalent to 0.056 mrem/y. The Sr-90 residential PRG of 0.231 pCi/g is equivalent to 0.014 mrem/y. The tritium residential PRG of 2.28 pCi/g is equivalent to 0.486 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>

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.



Phil Rutherford
Manager, Health, Safety & Radiation Services

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 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

Soil Data from ISRA 009 - AP/STP-1C1

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	APWC0001S001	N/A	7/30/2010	257648	0.0686	0.0449	0.0567		0.0161	0.0264	0.0464	NDA	0.319	0.608	1.03	NDA
2	APWC0002S001	N/A	7/30/2010	257648	-0.000661	0.0217	0.038	NDA	-0.0153	0.0256	0.0484	NDA	-0.316	0.583	1.02	NDA
3	APWC0003S001	N/A	7/30/2010	257648	0.0152	0.0277	0.0494	NDA	0.015	0.027	0.0473	NDA	0.477	0.611	1.03	NDA
4	APWC0004S001	N/A	7/30/2010	257648	0.109	0.0415	0.041		0.0264	0.0237	0.0393	NDA	0.303	0.62	1.05	NDA
5	APWC0005S001	N/A	7/30/2010	257648	-0.0255	0.0317	0.0496	NDA	0.00285	0.0256	0.048	NDA	0.351	0.604	1.03	NDA
6	APWC0006S001	N/A	7/29/2010	257556	0.0583	0.0409	0.0449		0.043	0.0299	0.0483	NDA	-0.283	0.36	0.743	NDA
7	APWC0007S001	N/A	7/30/2010	257648	0	0.0503	0.0406	NDA	-0.00225	0.0266	0.0479	NDA	0.161	0.61	1.04	NDA
8	APWC0008S001	N/A	7/30/2010	257648	0.123	0.0561	0.0524		0.0174	0.0272	0.0468	NDA	0.0562	0.591	1.02	NDA
9	APWC0009S001	N/A	7/30/2010	257648	0.209	0.0564	0.0506		0.0131	0.0266	0.0463	NDA	-0.199	0.608	1.06	NDA
10	APWC0010S001	N/A	7/29/2010	257556	0.0824	0.0355	0.0462		0.0362	0.0308	0.0496	NDA	-0.0578	0.397	0.757	NDA
11	APWC0011S001	N/A	7/30/2010	257648	0.0895	0.0482	0.0477		0.00792	0.023	0.0421	NDA	-0.139	0.606	1.05	NDA
12	APWC0012S001	N/A	7/30/2010	257648	0.0612	0.043	0.0331		0.0374	0.0297	0.0483	NDA	0.515	0.617	1.04	NDA
13	APWC0013S001	N/A	7/29/2010	257556	0.095	0.0375	0.038		0.0139	0.0276	0.0479	NDA	-0.0279	0.387	0.732	NDA
14	APWC0014S001	N/A	7/30/2010	257649	0.0576	0.0408	0.0478		0.0115	0.0233	0.0412	NDA	-0.295	0.371	0.762	NDA
15	APWC0015S001	N/A	7/30/2010	257649	0.0263	0.025	0.0446	NDA	0.0255	0.0279	0.0466	NDA	0.0143	0.418	0.776	NDA
16	APWC0016S001	N/A	7/29/2010	257556	0.0832	0.0404	0.041		0.0143	0.0278	0.0479	NDA	0.0424	0.401	0.742	NDA
17	APWC0017S001	N/A	7/29/2010	257556	-0.0111	0.0239	0.0427	NDA	-0.00566	0.0266	0.0488	NDA	-0.112	0.379	0.737	NDA
18	APWC0018S001	N/A	7/29/2010	257556	0.0746	0.0335	0.0475		0.0131	0.0264	0.0474	NDA	-0.109	0.366	0.712	NDA
19	APWC0019S001	N/A	7/29/2010	257556	-0.00319	0.0285	0.0492	NDA	0.0219	0.0282	0.0479	NDA	0.0408	0.386	0.714	NDA
20	APWC0020S001	N/A	7/29/2010	257556	-0.00297	0.0222	0.039	NDA	0.0171	0.0284	0.0487	NDA	-0.126	0.375	0.733	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	0.055		0.045		0.015		0.047		0.031		0.889	
Maximum	0.209		0.057		0.043		0.050		0.515		1.060	
Minimum	-0.026		0.033		-0.015		0.039		-0.316		0.712	
Count				20				20				20
Number of Non-Detects				8				20				20
% Non-Detects				40%				100%				100%

Soil Data from ISRA 009 - AP/STP-1C1

Wilcoxon Rank Sum Test -- (Cesium-137)

General Information:

The Wilcoxon Rank Sum method 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 by more than the DCGL.

The alternative hypothesis, H_a , is: Survey sample concentrations do not exceed those in the background by more than the DCGL.

How to use this template:

- 1) Enter analysis results in Data Tab.
- 2) The Wilcoxon Rank Sum test is prescribed in, NUREG-1505, Nuclear Regulatory Commission, "A Non-parametric Statistical Methodology for the Design and Analysis of Final Status Decommissioning Surveys." January 1998.

Derived Concentration Guideline Level, 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:	20
z-value for alpha	1.645
No. of groups of tied measurements, g	12
Critical Value (excluding ties)	1964.7
Critical Value (including ties)	1964.6
Sum of Reference Ranks	1995.0
Sum of Survey Ranks	561.0
Sum of All Ranks	2556
Check Rank Sum $(n+m)*(n+m+1)/2$	2556

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	0.055
Max	0.213	0.209
Min	0.015	-0.026
σ	0.062	0.057
$m-1.96*\sigma$	-0.035	-0.057
$m+1.96*\sigma$	0.210	0.168

No.	Soil ID	Cs-137	Adjusted Cs-137	Area	Ranks	Reference Ranks
1		0.092	0.092	R	44	44
2		0.020	0.020	R	14	14
3		0.020	0.020	R	14	14
4		0.100	0.100	R	49.5	49.5
5		0.020	0.020	R	14	14
6		0.158	0.158	R	62.5	62.5
7		0.175	0.175	R	64	64
8		0.209	0.209	R	69.5	69.5
9		0.180	0.180	R	65	65
10		0.030	0.030	R	23	23
11		0.213	0.213	R	71	71
12		0.025	0.025	R	19	19
13		0.020	0.020	R	14	14
14		0.020	0.020	R	14	14
15		0.074	0.074	R	36	36
16		0.147	0.147	R	58	58
17		0.100	0.100	R	49.5	49.5

No.	Soil ID	Cs-137	Adjusted Cs-137	Area	Ranks	Reference Ranks
18		0.067	0.067	R	33.5	33.5
19		0.099	0.099	R	48	48
20		0.101	0.101	R	51	51
21		0.148	0.148	R	59	59
22		0.153	0.153	R	61	61
23		0.025	0.025	R	19	19
24		0.188	0.188	R	66	66
25		0.198	0.198	R	68	68
26		0.030	0.030	R	23	23
27		0.079	0.079	R	38	38
28		0.158	0.158	R	62.5	62.5
29		0.109	0.109	R	52.5	52.5
30		0.059	0.059	R	31	31
31		0.067	0.067	R	33.5	33.5
32		0.113	0.113	R	54	54
33		0.015	0.015	R	8	8
34		0.031	0.031	R	25	25
35		0.042	0.042	R	28	28
36		0.097	0.097	R	46.5	46.5
37		0.015	0.015	R	8	8
38		0.020	0.020	R	14	14
39		0.085	0.085	R	42	42
40		0.080	0.080	R	39	39
41		0.015	0.015	R	8	8
42		0.020	0.020	R	14	14
43		0.035	0.035	R	26.5	26.5
44		0.035	0.035	R	26.5	26.5
45		0.025	0.025	R	19	19
46		0.150	0.150	R	60	60
47		0.140	0.140	R	56.5	56.5
48		0.190	0.190	R	67	67
49		0.097	0.097	R	46.5	46.5
50		0.030	0.030	R	23	23
51		0.140	0.140	R	56.5	56.5
52	APWC0001S001	0.069	0.069	S	35	0
53	APWC0002S001	-0.001	-0.001	S	5	0
54	APWC0003S001	0.015	0.015	S	10	0
55	APWC0004S001	0.109	0.109	S	52.5	0
56	APWC0005S001	-0.026	-0.026	S	1	0
57	APWC0006S001	0.058	0.058	S	30	0
58	APWC0007S001	0.000	0.000	S	6	0
59	APWC0008S001	0.123	0.123	S	55	0
60	APWC0009S001	0.209	0.209	S	69.5	0
61	APWC0010S001	0.082	0.082	S	40	0
62	APWC0011S001	0.090	0.090	S	43	0
63	APWC0012S001	0.061	0.061	S	32	0
64	APWC0013S001	0.095	0.095	S	45	0
65	APWC0014S001	0.058	0.058	S	29	0
66	APWC0015S001	0.026	0.026	S	21	0
67	APWC0016S001	0.083	0.083	S	41	0
68	APWC0017S001	-0.011	-0.011	S	2	0
69	APWC0018S001	0.075	0.075	S	37	0
70	APWC0019S001	-0.003	-0.003	S	3	0
71	APWC0020S001	-0.003	-0.003	S	4	0
Sum					2556.0	1995.0

Soil Data from ISRA 009 - AP/STP-1C1

Wilcoxon Rank Sum Test -- (Strontium-90)

General Information:

The Wilcoxon Rank Sum method 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 by more than the DCGL.

The alternative hypothesis, H_a , is: Survey sample concentrations do not exceed those in the background by more than the DCGL.

How to use this template:

- 1) Enter analysis results in Data Tab.
- 2) The Wilcoxon Rank Sum test is prescribed in, NUREG-1505, Nuclear Regulatory Commission, "A Non-parametric Statistical Methodology for the Design and Analysis of Final Status Decommissioning Surveys." January 1998.

Derived Concentration Guideline Level, 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:	20
z-value for alpha	1.645
No. of groups of tied measurements, g	10
Critical Value (excluding ties)	1964.7
Critical Value (including ties)	1964.3
Sum of Reference Ranks	2240.0
Sum of Survey Ranks	316.0
Sum of All Ranks	2556
Check Rank Sum $(n+m)*(n+m+1)/2$	2556

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	0.015
Max	0.130	0.043
Min	0.005	-0.015
σ	0.030	0.014
$m-1.96\sigma$	-0.008	-0.013
$m+1.96\sigma$	0.109	0.044

No.	Soil ID	Sr-90	Adjusted Sr-90	Area	Ranks	Reference Ranks
1		0.030	0.030	R	29	29
2		0.010	0.010	R	7.5	7.5
3		0.045	0.045	R	46.5	46.5
4		0.045	0.045	R	46.5	46.5
5		0.050	0.050	R	56	56
6		0.040	0.040	R	37	37
7		0.035	0.035	R	31.5	31.5
8		0.050	0.050	R	56	56
9		0.050	0.050	R	56	56
10		0.130	0.130	R	70.5	70.5
11		0.120	0.120	R	69	69
12		0.040	0.040	R	37	37
13		0.045	0.045	R	46.5	46.5
14		0.130	0.130	R	70.5	70.5
15		0.050	0.050	R	56	56
16		0.088	0.088	R	64	64
17		0.080	0.080	R	61	61

No.	Soil ID	Sr-90	Adjusted Sr-90	Area	Ranks	Reference Ranks
18		0.100	0.100	R	68	68
19		0.069	0.069	R	60	60
20		0.097	0.097	R	66	66
21		0.084	0.084	R	63	63
22		0.098	0.098	R	67	67
23		0.045	0.045	R	46.5	46.5
24		0.045	0.045	R	46.5	46.5
25		0.020	0.020	R	20	20
26		0.045	0.045	R	46.5	46.5
27		0.089	0.089	R	65	65
28		0.050	0.050	R	56	56
29		0.045	0.045	R	46.5	46.5
30		0.050	0.050	R	56	56
31		0.045	0.045	R	46.5	46.5
32		0.040	0.040	R	37	37
33		0.045	0.045	R	46.5	46.5
34		0.045	0.045	R	46.5	46.5
35		0.045	0.045	R	46.5	46.5
36		0.025	0.025	R	24.5	24.5
37		0.082	0.082	R	62	62
38		0.045	0.045	R	46.5	46.5
39		0.040	0.040	R	37	37
40		0.035	0.035	R	31.5	31.5
41		0.025	0.025	R	24.5	24.5
42		0.005	0.005	R	5	5
43		0.020	0.020	R	20	20
44		0.010	0.010	R	7.5	7.5
45		0.020	0.020	R	20	20
46		0.020	0.020	R	20	20
47		0.050	0.050	R	56	56
48		0.030	0.030	R	29	29
49		0.030	0.030	R	29	29
50		0.020	0.020	R	20	20
51		0.040	0.040	R	37	37
52	APWC0001S001	0.016	0.016	S	15	0
53	APWC0002S001	-0.015	-0.015	S	1	0
54	APWC0003S001	0.015	0.015	S	14	0
55	APWC0004S001	0.026	0.026	S	27	0
56	APWC0005S001	0.003	0.003	S	4	0
57	APWC0006S001	0.043	0.043	S	40	0
58	APWC0007S001	-0.002	-0.002	S	3	0
59	APWC0008S001	0.017	0.017	S	17	0
60	APWC0009S001	0.013	0.013	S	10.5	0
61	APWC0010S001	0.036	0.036	S	33	0
62	APWC0011S001	0.008	0.008	S	6	0
63	APWC0012S001	0.037	0.037	S	34	0
64	APWC0013S001	0.014	0.014	S	12	0
65	APWC0014S001	0.012	0.012	S	9	0
66	APWC0015S001	0.026	0.026	S	26	0
67	APWC0016S001	0.014	0.014	S	13	0
68	APWC0017S001	-0.006	-0.006	S	2	0
69	APWC0018S001	0.013	0.013	S	10.5	0
70	APWC0019S001	0.022	0.022	S	23	0
71	APWC0020S001	0.017	0.017	S	16	0
Sum					2556.0	2240.0

Appendix 2
Radionuclide Results

ISRA Outfall 009 - AP/STP-1C1

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	7/30/2010	AP/STP-1C1	APWC0001	APWC0001S001	Soil	Americium-241	-0.00257	0.0447	0.0725	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0002	APWC0002S001	Soil	Americium-241	-0.00511	0.108	0.201	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0003	APWC0003S001	Soil	Americium-241	-0.179	0.0996	0.178	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0004	APWC0004S001	Soil	Americium-241	0.0906	0.0822	0.135	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0005	APWC0005S001	Soil	Americium-241	0.0163	0.0373	0.0616	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0006	APWC0006S001	Soil	Americium-241	0.0143	0.0356	0.0595	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0007	APWC0007S001	Soil	Americium-241	0.00484	0.0959	0.154	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0008	APWC0008S001	Soil	Americium-241	0.0129	0.118	0.22	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0009	APWC0009S001	Soil	Americium-241	0.111	0.127	0.212	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0010	APWC0010S001	Soil	Americium-241	0.0378	0.0942	0.187	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0011	APWC0011S001	Soil	Americium-241	-0.0375	0.113	0.215	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0012	APWC0012S001	Soil	Americium-241	0.0522	0.0321	0.0524	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0013	APWC0013S001	Soil	Americium-241	-0.0297	0.11	0.202	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0014	APWC0014S001	Soil	Americium-241	-0.0573	0.145	0.266	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257649	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0015	APWC0015S001	Soil	Americium-241	-0.0988	0.119	0.216	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257649	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0016	APWC0016S001	Soil	Americium-241	0.0983	0.097	0.171	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0017	APWC0017S001	Soil	Americium-241	-0.00266	0.0267	0.0446	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0018	APWC0018S001	Soil	Americium-241	0.029	0.041	0.0702	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0019	APWC0019S001	Soil	Americium-241	0.0886	0.125	0.21	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0020	APWC0020S001	Soil	Americium-241	-0.12	0.0981	0.176	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0001	APWC0001S001	Soil	Cesium-134	0	0.052	0.0808	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0002	APWC0002S001	Soil	Cesium-134	0	0.0404	0.0514	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0003	APWC0003S001	Soil	Cesium-134	0	0.0563	0.07	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0004	APWC0004S001	Soil	Cesium-134	0	0.06	0.0592	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0005	APWC0005S001	Soil	Cesium-134	0.0506	0.0395	0.075	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0006	APWC0006S001	Soil	Cesium-134	0	0.0384	0.0634	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0007	APWC0007S001	Soil	Cesium-134	0	0.0368	0.0568	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0008	APWC0008S001	Soil	Cesium-134	0	0.0611	0.0791	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0009	APWC0009S001	Soil	Cesium-134	0	0.0908	0.0694	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0010	APWC0010S001	Soil	Cesium-134	0	0.0333	0.0661	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0011	APWC0011S001	Soil	Cesium-134	0.0543	0.0363	0.065	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0012	APWC0012S001	Soil	Cesium-134	0	0.0302	0.0498	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0013	APWC0013S001	Soil	Cesium-134	0.0489	0.041	0.0511	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0014	APWC0014S001	Soil	Cesium-134	0	0.0447	0.065	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257649	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0015	APWC0015S001	Soil	Cesium-134	0	0.038	0.0625	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257649	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0016	APWC0016S001	Soil	Cesium-134	0.0542	0.0379	0.0594	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0017	APWC0017S001	Soil	Cesium-134	0	0.0455	0.0533	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0018	APWC0018S001	Soil	Cesium-134	0.0604	0.0411	0.0613	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0019	APWC0019S001	Soil	Cesium-134	0.0236	0.0343	0.0618	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0020	APWC0020S001	Soil	Cesium-134	0	0.0428	0.0575	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0001	APWC0001S001	Soil	Cesium-137	0.0686	0.0449	0.0567	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0002	APWC0002S001	Soil	Cesium-137	-0.000661	0.0217	0.038	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0003	APWC0003S001	Soil	Cesium-137	0.0152	0.0277	0.0494	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0004	APWC0004S001	Soil	Cesium-137	0.109	0.0415	0.041	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0005	APWC0005S001	Soil	Cesium-137	-0.0255	0.0317	0.0496	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0006	APWC0006S001	Soil	Cesium-137	0.0583	0.0409	0.0449	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0007	APWC0007S001	Soil	Cesium-137	0	0.0503	0.0406	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0008	APWC0008S001	Soil	Cesium-137	0.123	0.0561	0.0524	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0009	APWC0009S001	Soil	Cesium-137	0.209	0.0564	0.0506	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0010	APWC0010S001	Soil	Cesium-137	0.0824	0.0355	0.0462	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0011	APWC0011S001	Soil	Cesium-137	0.0895	0.0482	0.0477	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0012	APWC0012S001	Soil	Cesium-137	0.0612	0.043	0.0331	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0013	APWC0013S001	Soil	Cesium-137	0.095	0.0375	0.038	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0014	APWC0014S001	Soil	Cesium-137	0.0576	0.0408	0.0478	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257649	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0015	APWC0015S001	Soil	Cesium-137	0.0263	0.025	0.0446	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257649	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0016	APWC0016S001	Soil	Cesium-137	0.0832	0.0404	0.041	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0017	APWC0017S001	Soil	Cesium-137	-0.0111	0.0239	0.0427	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0018	APWC0018S001	Soil	Cesium-137	0.0746	0.0335	0.0475	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0019	APWC0019S001	Soil	Cesium-137	-0.00319	0.0285	0.0492	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0020	APWC0020S001	Soil	Cesium-137	-0.00297	0.0222	0.039	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0001	APWC0001S001	Soil	Cobalt-60	0.0132	0.0348	0.0624	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010															

ISRA Outfall 009 - AP/STP-1C1

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	7/30/2010	AP/STP-1C1	APWC0004	APWC0004S001	Soil	Cobalt-60	0.013	0.0273	0.0473	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0005	APWC0005S001	Soil	Cobalt-60	-0.00615	0.035	0.059	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0006	APWC0006S001	Soil	Cobalt-60	0.00686	0.0266	0.0474	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0007	APWC0007S001	Soil	Cobalt-60	0.00276	0.0244	0.0417	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0008	APWC0008S001	Soil	Cobalt-60	-0.0046	0.0355	0.0594	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0009	APWC0009S001	Soil	Cobalt-60	0.00166	0.0263	0.0454	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0010	APWC0010S001	Soil	Cobalt-60	-0.0241	0.0295	0.0464	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0011	APWC0011S001	Soil	Cobalt-60	-0.00664	0.0282	0.0463	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0012	APWC0012S001	Soil	Cobalt-60	-0.00415	0.0213	0.0349	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0013	APWC0013S001	Soil	Cobalt-60	-0.0108	0.0218	0.035	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0014	APWC0014S001	Soil	Cobalt-60	0.00313	0.0246	0.0427	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257649	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0015	APWC0015S001	Soil	Cobalt-60	-0.0051	0.0246	0.0416	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257649	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0016	APWC0016S001	Soil	Cobalt-60	0.0173	0.0244	0.0445	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0017	APWC0017S001	Soil	Cobalt-60	-0.0125	0.0226	0.0372	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0018	APWC0018S001	Soil	Cobalt-60	-0.0224	0.0277	0.0426	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0019	APWC0019S001	Soil	Cobalt-60	-0.0184	0.0243	0.039	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0020	APWC0020S001	Soil	Cobalt-60	-0.0189	0.0241	0.0388	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0001	APWC0001S001	Soil	Europium-152	-0.0155	0.0737	0.126	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0002	APWC0002S001	Soil	Europium-152	0.0162	0.0675	0.0947	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0003	APWC0003S001	Soil	Europium-152	0.0611	0.0822	0.121	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0004	APWC0004S001	Soil	Europium-152	-0.0413	0.0726	0.0974	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0005	APWC0005S001	Soil	Europium-152	-0.00933	0.067	0.116	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0006	APWC0006S001	Soil	Europium-152	0.00189	0.0549	0.0968	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0007	APWC0007S001	Soil	Europium-152	-0.0214	0.0823	0.109	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0008	APWC0008S001	Soil	Europium-152	-0.0659	0.0897	0.127	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0009	APWC0009S001	Soil	Europium-152	0.0331	0.0738	0.131	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0010	APWC0010S001	Soil	Europium-152	0.0114	0.0697	0.109	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0011	APWC0011S001	Soil	Europium-152	0.0168	0.0764	0.121	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0012	APWC0012S001	Soil	Europium-152	-0.0325	0.0626	0.0876	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0013	APWC0013S001	Soil	Europium-152	0.0296	0.0662	0.0941	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0014	APWC0014S001	Soil	Europium-152	-0.0137	0.0765	0.109	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257649	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0015	APWC0015S001	Soil	Europium-152	0.0715	0.11	0.123	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257649	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0016	APWC0016S001	Soil	Europium-152	-0.054	0.0708	0.108	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0017	APWC0017S001	Soil	Europium-152	-0.0288	0.052	0.0812	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0018	APWC0018S001	Soil	Europium-152	0.00515	0.0829	0.114	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0019	APWC0019S001	Soil	Europium-152	-0.078	0.0799	0.115	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0020	APWC0020S001	Soil	Europium-152	0.0334	0.0717	0.107	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0001	APWC0001S001	Soil	Europium-154	0.0469	0.111	0.192	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0002	APWC0002S001	Soil	Europium-154	0.00174	0.0738	0.125	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0003	APWC0003S001	Soil	Europium-154	0.0209	0.0859	0.15	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0004	APWC0004S001	Soil	Europium-154	0.0947	0.0783	0.143	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0005	APWC0005S001	Soil	Europium-154	-0.0265	0.116	0.196	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0006	APWC0006S001	Soil	Europium-154	-0.0725	0.087	0.134	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0007	APWC0007S001	Soil	Europium-154	0.00474	0.0801	0.137	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0008	APWC0008S001	Soil	Europium-154	0.0193	0.115	0.198	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0009	APWC0009S001	Soil	Europium-154	-0.0544	0.0955	0.156	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0010	APWC0010S001	Soil	Europium-154	0.0879	0.0916	0.169	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0011	APWC0011S001	Soil	Europium-154	-0.0136	0.0967	0.162	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0012	APWC0012S001	Soil	Europium-154	-0.0431	0.0704	0.113	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0013	APWC0013S001	Soil	Europium-154	0.0267	0.0694	0.12	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0014	APWC0014S001	Soil	Europium-154	-0.0795	0.076	0.117	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257649	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0015	APWC0015S001	Soil	Europium-154	0.0251	0.0863	0.153	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257649	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0016	APWC0016S001	Soil	Europium-154	0.0159	0.0807	0.141	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0017	APWC0017S001	Soil	Europium-154	0.0288	0.0685	0.122	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0018	APWC0018S001	Soil	Europium-154	-0.051	0.0879	0.141	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0019	APWC0019S001	Soil	Europium-154	-0.0231	0.0837	0.142	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0020	APWC0020S001	Soil	Europium-154	-0.0355	0.0716	0.12	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0001	APWC0001S001	Soil	Manganese-54	0.00122	0.0319	0.0555	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0002	APWC0002S001	Soil	Manganese-54	0.00823	0.0223	0.0389	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0003	APWC0003S001	Soil	Manganese-54	0.000735	0.0272	0.0463	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0004	APWC0004S001	Soil	Manganese-54	0.0219	0.0259	0.0468	NDA	pCi/g					

ISRA Outfall 009 - AP/STP-1C1

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	7/30/2010	AP/STP-1C1	APWC0007	APWC0007S001	Soil	Manganese-54	0.00181	0.0238	0.0415	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0008	APWC0008S001	Soil	Manganese-54	0.0114	0.0354	0.0622	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0009	APWC0009S001	Soil	Manganese-54	-3.95E-05	0.0286	0.0489	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0010	APWC0010S001	Soil	Manganese-54	0.00167	0.0279	0.0493	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0011	APWC0011S001	Soil	Manganese-54	0.00811	0.0278	0.0482	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0012	APWC0012S001	Soil	Manganese-54	0.00828	0.0202	0.0354	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0013	APWC0013S001	Soil	Manganese-54	-0.00875	0.0214	0.0357	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0014	APWC0014S001	Soil	Manganese-54	-0.018	0.0264	0.0428	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257649	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0015	APWC0015S001	Soil	Manganese-54	-0.000828	0.0256	0.0442	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257649	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0016	APWC0016S001	Soil	Manganese-54	-0.0291	0.0245	0.0381	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0017	APWC0017S001	Soil	Manganese-54	-0.00261	0.0214	0.0371	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0018	APWC0018S001	Soil	Manganese-54	0.0105	0.0256	0.0461	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0019	APWC0019S001	Soil	Manganese-54	-0.0197	0.0272	0.045	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0020	APWC0020S001	Soil	Manganese-54	0.0301	0.0196	0.0399	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0001	APWC0001S001	Soil	Potassium-40	24.3	2.56	0.486	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste	
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0002	APWC0002S001	Soil	Potassium-40	23.8	2.48	0.315	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste	
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0003	APWC0003S001	Soil	Potassium-40	23.5	2.36	0.395	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste	
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0004	APWC0004S001	Soil	Potassium-40	24.7	2.69	0.329	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste	
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0005	APWC0005S001	Soil	Potassium-40	23.6	2.48	0.461	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste	
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0006	APWC0006S001	Soil	Potassium-40	21.8	2.21	0.365	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste	
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0007	APWC0007S001	Soil	Potassium-40	24.8	2.46	0.34	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste	
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0008	APWC0008S001	Soil	Potassium-40	24.1	2.7	0.489	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste	
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0009	APWC0009S001	Soil	Potassium-40	21.8	2.29	0.408	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste	
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0010	APWC0010S001	Soil	Potassium-40	22.8	2.46	0.464	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste	
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0011	APWC0011S001	Soil	Potassium-40	23.6	2.54	0.36	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste	
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0012	APWC0012S001	Soil	Potassium-40	22.2	2.06	0.234	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste	
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0013	APWC0013S001	Soil	Potassium-40	24.8	2.58	0.3	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste	
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0014	APWC0014S001	Soil	Potassium-40	23.9	2.54	0.356	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257649	Waste	
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0015	APWC0015S001	Soil	Potassium-40	24.7	2.88	0.345	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257649	Waste	
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0016	APWC0016S001	Soil	Potassium-40	21.3	2.15	0.348	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste	
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0017	APWC0017S001	Soil	Potassium-40	23.2	2.17	0.265	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste	
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0018	APWC0018S001	Soil	Potassium-40	21.3	2.12	0.363	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste	
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0019	APWC0019S001	Soil	Potassium-40	21.9	2.59	0.395	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste	
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0020	APWC0020S001	Soil	Potassium-40	22.4	2.22	0.305	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste	
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0001	APWC0001S001	Soil	Sodium-22	0.00744	0.0397	0.0672	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0002	APWC0002S001	Soil	Sodium-22	0.000275	0.0259	0.0439	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0003	APWC0003S001	Soil	Sodium-22	0.005	0.0304	0.0528	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0004	APWC0004S001	Soil	Sodium-22	0.0279	0.0277	0.0499	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0005	APWC0005S001	Soil	Sodium-22	-0.00893	0.0407	0.069	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0006	APWC0006S001	Soil	Sodium-22	-0.0199	0.03	0.047	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0007	APWC0007S001	Soil	Sodium-22	0.00167	0.0282	0.0483	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0008	APWC0008S001	Soil	Sodium-22	0.0113	0.0399	0.0695	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0009	APWC0009S001	Soil	Sodium-22	-0.0208	0.0339	0.0553	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0010	APWC0010S001	Soil	Sodium-22	0.0324	0.0323	0.0599	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0011	APWC0011S001	Soil	Sodium-22	-0.00366	0.0341	0.0572	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0012	APWC0012S001	Soil	Sodium-22	-0.0146	0.0248	0.0399	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0013	APWC0013S001	Soil	Sodium-22	0.0103	0.0244	0.0424	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0014	APWC0014S001	Soil	Sodium-22	-0.0315	0.0271	0.0412	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257649	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0015	APWC0015S001	Soil	Sodium-22	0.00834	0.0303	0.0535	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257649	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0016	APWC0016S001	Soil	Sodium-22	0.00199	0.0286	0.0495	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0017	APWC0017S001	Soil	Sodium-22	0.00976	0.024	0.0427	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0018	APWC0018S001	Soil	Sodium-22	-0.0184	0.0308	0.0493	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0019	APWC0019S001	Soil	Sodium-22	-0.00741	0.0295	0.0502	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0020	APWC0020S001	Soil	Sodium-22	-0.0165	0.0255	0.0421	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0001	APWC0001S001	Soil	Strontium-90	0.0161	0.0264	0.0464	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0002	APWC0002S001	Soil	Strontium-90	-0.0153	0.0256	0.0484	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0003	APWC0003S001	Soil	Strontium-90	0.015	0.027	0.0473	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0004	APWC0004S001	Soil	Strontium-90	0.0264	0.0237	0.0393	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0005	APWC0005S001	Soil	Strontium-90	0.00285	0.0256	0.048	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0006	APWC0006S001	Soil	Strontium-90	0.043	0.0299	0.0483	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0007	APWC0007S001	Soil	Strontium-90	-0.00225	0.0266	0.0479	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0008	APWC0008S001	Soil	Strontium-90	0.0174	0.0272	0.0468	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0009	APWC0009S001	Soil	Strontium-90										

ISRA Outfall 009 - AP/STP-1C1

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	7/29/2010	AP/STP-1C1	APWC0010	APWC0010S001	Soil	Strontium-90	0.0362	0.0308	0.0496	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0011	APWC0011S001	Soil	Strontium-90	0.00792	0.023	0.0421	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0012	APWC0012S001	Soil	Strontium-90	0.0374	0.0297	0.0483	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0013	APWC0013S001	Soil	Strontium-90	0.0139	0.0276	0.0479	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0014	APWC0014S001	Soil	Strontium-90	0.0115	0.0233	0.0412	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	257649	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0015	APWC0015S001	Soil	Strontium-90	0.0255	0.0279	0.0466	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	257649	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0016	APWC0016S001	Soil	Strontium-90	0.0143	0.0278	0.0479	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0017	APWC0017S001	Soil	Strontium-90	-0.00566	0.0266	0.0488	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0018	APWC0018S001	Soil	Strontium-90	0.0131	0.0264	0.0474	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0019	APWC0019S001	Soil	Strontium-90	0.0219	0.0282	0.0479	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0020	APWC0020S001	Soil	Strontium-90	0.0171	0.0284	0.0487	NDA	pCi/g	2 sigma	EPA 905.0 Modified	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0001	APWC0001S001	Soil	Thorium-228	1.29	0.153	0.0708	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0002	APWC0002S001	Soil	Thorium-228	1.3	0.142	0.0572	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0003	APWC0003S001	Soil	Thorium-228	1.33	0.147	0.0679	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0004	APWC0004S001	Soil	Thorium-228	1.41	0.155	0.0622	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0005	APWC0005S001	Soil	Thorium-228	1.26	0.143	0.0609	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0006	APWC0006S001	Soil	Thorium-228	1.06	0.123	0.054	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0007	APWC0007S001	Soil	Thorium-228	1.5	0.208	0.0643	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0008	APWC0008S001	Soil	Thorium-228	1.4	0.166	0.0743	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0009	APWC0009S001	Soil	Thorium-228	1.22	0.147	0.0737	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0010	APWC0010S001	Soil	Thorium-228	1.01	0.123	0.0628	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0011	APWC0011S001	Soil	Thorium-228	1.39	0.189	0.0712	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0012	APWC0012S001	Soil	Thorium-228	1.39	0.177	0.05	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0013	APWC0013S001	Soil	Thorium-228	1.31	0.144	0.058	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0014	APWC0014S001	Soil	Thorium-228	1.31	0.156	0.0654	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257649	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0015	APWC0015S001	Soil	Thorium-228	1.34	0.152	0.0731	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257649	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0016	APWC0016S001	Soil	Thorium-228	1.32	0.145	0.0638	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0017	APWC0017S001	Soil	Thorium-228	1.32	0.163	0.0578	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0018	APWC0018S001	Soil	Thorium-228	1.1	0.149	0.0632	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0019	APWC0019S001	Soil	Thorium-228	1.48	0.165	0.0731	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0020	APWC0020S001	Soil	Thorium-228	1.37	0.154	0.0605	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0001	APWC0001S001	Soil	Thorium-232	1.25	0.288	0.215	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0002	APWC0002S001	Soil	Thorium-232	1.16	0.247	0.144	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0003	APWC0003S001	Soil	Thorium-232	1.49	0.318	0.16	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0004	APWC0004S001	Soil	Thorium-232	1.44	0.285	0.153	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0005	APWC0005S001	Soil	Thorium-232	1.49	0.35	0.201	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0006	APWC0006S001	Soil	Thorium-232	1.3	0.242	0.164	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0007	APWC0007S001	Soil	Thorium-232	1.62	0.293	0.154	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0008	APWC0008S001	Soil	Thorium-232	1.71	0.331	0.211	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0009	APWC0009S001	Soil	Thorium-232	1.44	0.28	0.169	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0010	APWC0010S001	Soil	Thorium-232	1.12	0.263	0.16	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0011	APWC0011S001	Soil	Thorium-232	1.21	0.268	0.18	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0012	APWC0012S001	Soil	Thorium-232	1.52	0.225	0.13	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0013	APWC0013S001	Soil	Thorium-232	1.34	0.27	0.124	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0014	APWC0014S001	Soil	Thorium-232	1.58	0.29	0.151	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257649	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0015	APWC0015S001	Soil	Thorium-232	1.36	0.289	0.166	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257649	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0016	APWC0016S001	Soil	Thorium-232	1.48	0.28	0.156	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0017	APWC0017S001	Soil	Thorium-232	1.51	0.237	0.128	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0018	APWC0018S001	Soil	Thorium-232	1.1	0.23	0.15	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0019	APWC0019S001	Soil	Thorium-232	1.51	0.294	0.167	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0020	APWC0020S001	Soil	Thorium-232	1.37	0.252	0.136	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0001	APWC0001S001	Soil	Tritium	0.319	0.608	1.03	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0002	APWC0002S001	Soil	Tritium	-0.316	0.583	1.02	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0003	APWC0003S001	Soil	Tritium	0.477	0.611	1.03	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0004	APWC0004S001	Soil	Tritium	0.303	0.62	1.05	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0005	APWC0005S001	Soil	Tritium	0.351	0.604	1.03	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0006	APWC0006S001	Soil	Tritium	-0.283	0.36	0.743	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0007	APWC0007S001	Soil	Tritium	0.161	0.61	1.04	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0008	APWC0008S001	Soil	Tritium	0.0562	0.591	1.02	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0009	APWC0009S001	Soil	Tritium	-0.199	0.608	1.06	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0010	APWC0010S001	Soil	Tritium	-0.0578	0.397	0.757	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0011	APWC0011S001	Soil	Tritium	-0.139	0.606	1.05	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0012	APWC0012S001	Soil	Tritium	0.515	0.617	1.04	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	257648	Waste

ISRA Outfall 009 - AP/STP-1C1

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	7/29/2010	AP/STP-1C1	APWC0013	APWC0013S001	Soil	Tritium	-0.0279	0.387	0.732	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0014	APWC0014S001	Soil	Tritium	-0.295	0.371	0.762	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	257649	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0015	APWC0015S001	Soil	Tritium	0.0143	0.418	0.776	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	257649	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0016	APWC0016S001	Soil	Tritium	0.0424	0.401	0.742	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0017	APWC0017S001	Soil	Tritium	-0.112	0.379	0.737	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0018	APWC0018S001	Soil	Tritium	-0.109	0.366	0.712	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0019	APWC0019S001	Soil	Tritium	0.0408	0.386	0.714	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0020	APWC0020S001	Soil	Tritium	-0.126	0.375	0.733	NDA	pCi/g	2 sigma	EPA 906.0 Modified	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0001	APWC0001S001	Soil	Uranium-235	-0.0346	0.14	0.241	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0002	APWC0002S001	Soil	Uranium-235	0.0195	0.129	0.218	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0003	APWC0003S001	Soil	Uranium-235	-0.0214	0.142	0.251	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0004	APWC0004S001	Soil	Uranium-235	0.0131	0.133	0.237	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0005	APWC0005S001	Soil	Uranium-235	0.137	0.114	0.213	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0006	APWC0006S001	Soil	Uranium-235	0.047	0.109	0.193	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0007	APWC0007S001	Soil	Uranium-235	0.00403	0.142	0.247	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0008	APWC0008S001	Soil	Uranium-235	0.031	0.151	0.258	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0009	APWC0009S001	Soil	Uranium-235	-0.0375	0.152	0.267	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0010	APWC0010S001	Soil	Uranium-235	-0.0521	0.122	0.211	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0011	APWC0011S001	Soil	Uranium-235	0.00967	0.151	0.262	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0012	APWC0012S001	Soil	Uranium-235	0.034	0.1	0.176	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0013	APWC0013S001	Soil	Uranium-235	0.0647	0.127	0.215	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0014	APWC0014S001	Soil	Uranium-235	0.0214	0.132	0.23	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257649	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0015	APWC0015S001	Soil	Uranium-235	0.0285	0.162	0.281	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257649	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0016	APWC0016S001	Soil	Uranium-235	-0.0451	0.135	0.24	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0017	APWC0017S001	Soil	Uranium-235	0.106	0.0942	0.168	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0018	APWC0018S001	Soil	Uranium-235	0.116	0.14	0.244	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0019	APWC0019S001	Soil	Uranium-235	-0.0158	0.163	0.283	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0020	APWC0020S001	Soil	Uranium-235	-0.0141	0.128	0.227	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0001	APWC0001S001	Soil	Uranium-238	1.11	0.849	0.746	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0002	APWC0002S001	Soil	Uranium-238	-0.474	0.962	1.73	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0003	APWC0003S001	Soil	Uranium-238	0.927	0.903	1.71	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0004	APWC0004S001	Soil	Uranium-238	1.85	1.06	1.18	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0005	APWC0005S001	Soil	Uranium-238	1.1	0.571	0.614	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0006	APWC0006S001	Soil	Uranium-238	0.818	0.531	0.594	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0007	APWC0007S001	Soil	Uranium-238	1.29	1.22	1.33	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0008	APWC0008S001	Soil	Uranium-238	1.16	1.08	1.99	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0009	APWC0009S001	Soil	Uranium-238	1.31	1.2	1.76	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0010	APWC0010S001	Soil	Uranium-238	0.453	0.848	1.65	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0011	APWC0011S001	Soil	Uranium-238	1.31	1.14	2.1	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0012	APWC0012S001	Soil	Uranium-238	0.974	0.557	0.513	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257648	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0013	APWC0013S001	Soil	Uranium-238	1.59	1.04	1.9	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0014	APWC0014S001	Soil	Uranium-238	0.243	1.21	2.21	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257649	Waste
2010 ISRA Waste Characterization	MWH	7/30/2010	AP/STP-1C1	APWC0015	APWC0015S001	Soil	Uranium-238	0.0349	1.06	1.92	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257649	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0016	APWC0016S001	Soil	Uranium-238	2.01	1.36	1.46	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0017	APWC0017S001	Soil	Uranium-238	1.34	0.518	0.445	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0018	APWC0018S001	Soil	Uranium-238	0.864	0.533	0.694	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0019	APWC0019S001	Soil	Uranium-238	2.04	1.5	1.72	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste
2010 ISRA Waste Characterization	MWH	7/29/2010	AP/STP-1C1	APWC0020	APWC0020S001	Soil	Uranium-238	0.672	0.887	1.64	NDA	pCi/g	2 sigma	DOE HASL 300, 4.5.2.3/Ga-01-R	GEL	257556	Waste

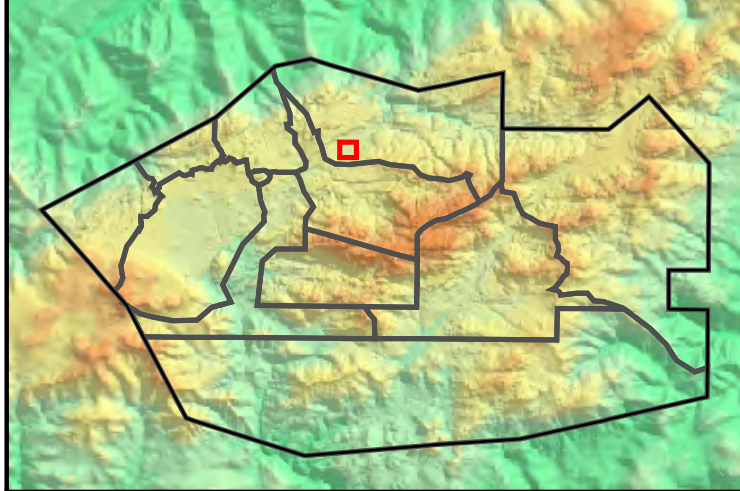
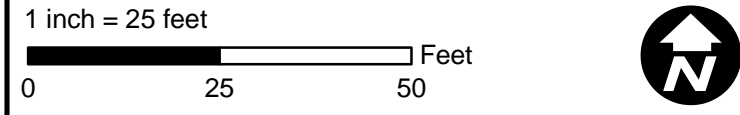
Outfall 009
Sample Locations for AP/STP - 1C,
AP/STP - 1B, and AP/STP - 1D

- 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

- Figure Legend**
- Waste Characterization Sample



Document: ISRA_Plots_Working_AP-STP-1C_SampleLocations.mxd Date: Sep 02, 2010



SANTA SUSANA FIELD LABORATORY

FIGURE 2-2