Quality Assurance

Table Q-1. Severn Trent Laboratories (STL), Inc., Richland, WA, Performance Data on Surface Environmental Surveillance Project Blind Samples, 2004

Media	Con Short Name	True Value	Units	Value Rptd	Anal Units Rptd	Reported/True	% Bias
Water	Co-60	776	pCi/L	771	pCi/L	0.99	-0.64
Water	Cs-137	1848	pCi/L	1940	pCi/L	1.05	5.0
Water	Pu-239	20.6	pCi/L	22.3	pCi/L	1.08	8.3
Water	Pu-239	23.5	pCi/L	24.7	pCi/L	1.05	5.1
Water	H-3	1686	pCi/L	1810	pCi/L	1.07	7.4
Water	U-234	10.0	pCi/L	10.6	pCi/L	1.06	6.0
Water	U-238	9.73	pCi/L	10.6	pCi/L	1.09	8.9
Water	Co-60	731	pCi/L	764	pCi/L	1.05	4.5
Water	Cs-137	2509	pCi/L	2550	pCi/L	1.02	1.6
Water	Pu-238	24.6	pCi/L	24.2	pCi/L	0.98	-1.6
Water	Pu-239	24.8	pCi/L	24.8	pCi/L	1.00	0.0
Water	H-3	1666	pCi/L	1600	pCi/L	0.96	-4.0
Water	U-234	13.0	pCi/L	13.6	pCi/L	1.05	4.6
Water	U-238	13.3	pCi/L	13.4	pCi/L	1.01	0.75
Vegetation	Co-60	0.26	pCi/g	0.34	pCi/g	1.31	30.8
Vegetation	Cs-137	10.7	pCi/g	13.9	pCi/g	1.30	29.9
Vegetation	K-40	13.9	pCi/g	15.6	pCi/g	1.12	12.2
Vegetation	Pu-238	0.13	pCi/g	0.0101	pCi/g	0.08	-92.2
Vegetation	Pu-239	0.116	pCi/g	0.12	pCi/g	1.03	3.4
Vegetation	Sr-90	14.4	pCi/g	13.7	pCi/g	0.95	-4.9
Vegetation	Co-60	0.79	pCi/g	0.907	pCi/g	1.15	14.8
Vegetation	Cs-137	33.6	pCi/g	39	pCi/g	1.16	16.1
Vegetation	K-40	14.1	pCi/g	15.9	pCi/g	1.13	12.8
Vegetation	Pu-238	0.0284	pCi/g	0.0284	pCi/g	1.00	0.0
Vegetation	Pu-239	0.419	pCi/g	0.364	pCi/g	0.87	-13.1
Vegetation	Sr-90	43.2	pCi/g	41.6	pCi/g	0.96	-3.7
Soil	Cs-137	4.96	pCi/g	6.00	pCi/g	1.21	21.0
Soil	K-40	21.1	pCi/g	24.9	pCi/g	1.18	18.0
Soil	Pu-238	0.0083	pCi/g	0.00656	pCi/g	0.79	-21.0
Soil	Pu-239	0.086	pCi/g	0.0714	pCi/g	0.83	-17.0
Soil	Sr-90	0.314	pCi/g	0.33	pCi/g	1.05	5.1
Soil	U-234	5.13	pCi/g	4.46	pCi/g	0.87	-13.1
Soil	U-238	5.45	pCi/g	4.73	pCi/g	0.87	-13.2
Soil	Cs-137	8.25	pCi/g	10	pCi/g	1.21	21.2
Soil	K-40	21.9	pCi/g	25.9	pCi/g	1.18	18.3
Soil	Pu-238	0.485	pCi/g	0.481	pCi/g	0.99	-0.8
Soil	Pu-239	0.189	pCi/g	0.191	pCi/g	1.01	1.1
Soil	Sr-90	0.489	pCi/g	0.476	pCi/g	0.97	-2.7
Soil	U-234	3.00	pCi/g	2.51	pCi/g	0.84	-16.3
Soil	U-238	3.08	pCi/g	2.57	pCi/g	0.83	-16.6
Air Filter	Co-60	95	pCi/filter	116	pCi/filter	1.22	22.1
Air Filter	Cs-137	157	pCi/filter	196	pCi/filter	1.25	24.8
Air Filter	Sr-90	8.15	pCi/filter	7.28	pCi/filter	0.89	-10.7
Air Filter	U-234	1.78	pCi/filter	1.88	pCi/filter	1.06	5.6
Air Filter	U-238	1.84	pCi/filter	1.76	pCi/filter	0.96	-4.3
Air Filter	Co-60	80.3	pCi/filter	95.8	pCi/filter	1.19	19.3
Air Filter	Cs-137	149	pCi/filter	175	pCi/filter	1.17	17.4
Air Filter	Pu-238	2.09	pCi/filter	2.1	pCi/filter	1.00	0.5
Air Filter	Sr-90	5.88	pCi/filter	5.66	pCi/filter	0.96	-3.7
Air Filter	U-234	1.68	pCi/filter	1.68	pCi/filter	1.00	0.0
Air Filter	U-238	1.68	pCi/filter	1.7	pCi/filter	1.01	1.2

Table Q-2. Severn Trent Laboratories (STL) Inc., Richland WA, Performance Data on Environmental Resource Associates (ERA) Proficiency Testing Program Water Samples (pCi/L), 2004

Analysis	Blind	STL Value[a]	STL Experimental Deviation[b]	ERA Known	ERA Expected Deviation[b]	Mean Recovery	Number of Participants	Bias%	Performance Evaluation	Report Issue Date	Comments
Gross Alpha	Rad-55	26.6	2.75	29.5	7.38	28.2	38	-9.83	Acceptable	23-Jan-04	
Gross Beta	Rad-55	26.3	0.56	26.3	5.00	26.4	33	0.00	Acceptable	23-Jan-04	
I-131	Rad-55	31.8	4.77	28.2	3.00	26.7	25	12.77	Acceptable	23-Jan-04	
Ra-226	Rad-55	20.5	1.81	17.8	2.67	16.7	22	15.17	Acceptable	23-Jan-04	
Ra-228	Rad-55	6.72	0.761	6.78	1.70	6.62	19	-0.88	Acceptable	23-Jan-04	
U (Nat)	Rad-55	10.7	0.12	11.7	3.00	11.6	20	-8.55	Acceptable	23-Jan-04	
H-3	Rad-55	11900	5100.00	14300	1430	14500	42	-16.78	Acceptable	23-Jan-04	
U (Nat)	Rad-55	8.58	0.19	9.3	3.00	9.47	35	-7.74	Acceptable	23-Jan-04	
Ra-226	Rad-55	17.7	3.70	16.1	2.42	15.5	41	9.94	Acceptable	23-Jan-04	
Ra-228	Rad-55	5.34	0.51	5.49	1.37	5.18	35	-2.73	Acceptable	23-Jan-04	
Gross Alpha	Rad-55	59.4	5.60	54.2	13.60	62.7	48	9.59	Acceptable	23-Jan-04	
Co-60	Rad-55	28.2	4.7	27.7	5.00	28.4	35	1.81	Acceptable	23-Jan-04	
Cs-134	Rad-55	22.6	3.24	23.4	5.00	21.9	35	-3.42	Acceptable	23-Jan-04	
Cs-137	Rad-55	71.0	5.8	64.2	5.00	65.6	36	10.59	Acceptable	23-Jan-04	
Sr-89	Rad-55	46.7	1.0	50.4	5.00	47.5	24	-7.34	Acceptable	23-Jan-04	
Sr-90	Rad-55	10.1	0.5	10.2	5.00	10.2	29	-0.98	Acceptable	23-Jan-04	
Gross Beta	Rad-55	138	1.5	168	25.2	167	44	-17.86	Acceptable	23-Jan-04	
Sr-89	Rad-56	40.0	0.84	44.9	5.00	44.1	22	-10.91	Acceptable	23-Apr-04	
Sr-90	Rad-56	10.7	0.31	11.6	5.00	10.8	26	-7.76	Acceptable	23-Apr-04	
Ba-133	Rad-56	60.1	2.15	63.2	6.32	60.8	42	-4.91	Acceptable	23-Apr-04	
Cs-134	Rad-56	71.2	0.30	75.8	5.00	70.3	42	-6.07	Acceptable	23-Apr-04	
Cs-137	Rad-56	163	1.35	155	7.75	159.0	42	5.16	Acceptable	23-Apr-04	
Co-60	Rad-56	96.9	1.59	96.4	5.00	97.6	42	0.52	Acceptable	23-Apr-04	
Zn-65	Rad-56	102	5.63	102	10.2	109	42	0.00	Acceptable	23-Apr-04	
Gross Alpha	Rad-56	14.8	0.6	16.6	5.00	14.9	62	-10.84	Acceptable	23-Apr-04	
Gross Beta	Rad-56	40.4	3.55	41.5	5.00	41.2	62	-2.65	Acceptable	23-Apr-04	
Ra-226	Rad-56	10.6	2.29	9.32	1.40	9.8	44	13.73	Acceptable	23-Apr-04	
Ra-228	Rad-56	18.0	0.40	18.2	4.55	17.0	41	-1.10	Acceptable	23-Apr-04	
U (Nat)	Rad-56	32.8	0.55	33	3.00	32.3	44	-0.61	Acceptable	23-Apr-04	
Sr-89	Rad-57	21.8	1.38	45.9	5.00	43.5	23	-52.51	Not Acceptable	22-Jul-04	Corrective action dated 8/27/04.
Sr-90	Rad-57	0.787	0.0635	11.6	5.00	11.0	25	-93.22	Not Acceptable	22-Jul-04	Corrective action dated 8/27/04.
Ba-133	Rad-57	104.0	6.2	101	10.1	98.1	29	2.97	Acceptable	22-Jul-04	
Cs-134	Rad-57	47.0	2.4	50.5	5.00	48.0	30	-6.93	Acceptable	22-Jul-04	
Cs-137	Rad-57	85.9	4.1	82.5	5.00	84.5	31	4.12	Acceptable	22-Jul-04	
Co-60	Rad-57	42.6	1.59	41.6	5.00	42.4	31	2.40	Acceptable	22-Jul-04	
Zn-65	Rad-57	88.0	3.26	75.2	7.52	79.7	30	17.02	Acceptable	22-Jul-04	
Gross Alpha	Rad-57	33.0	8.13	38.8	9.7	34.1	65	-14.95	Acceptable	22-Jul-04	
Gross Beta	Rad-57	58.9	3.78	59.6	10.0	55.0	56	-1.17	Acceptable	22-Jul-04	
I-131	Rad-57	27.5	5.54	25.1	3.00	26.1	36	9.56	Acceptable	22-Jul-04	
Ra-226	Rad-57	17.5	0.58	17.3	2.60	15.9	54	1.16	Acceptable	22-Jul-04	
Ra-228	Rad-57	9.65	0.60	10.3	2.58	10.2	46	-6.31	Acceptable	22-Jul-04	
U (Nat)	Rad-57	12.8	0.27	12.7	3.00	12.9	46	0.79	Acceptable	22-Jul-04	
H-3	Rad-57	25400	1180	30900	3090	30500	46	-17.80	Acceptable	22-Jul-04	
Sr-89	Rad-58	18.5	0.61	20.0	5.00	18.9	17	-7.50	Acceptable	28-Oct-04	
Sr-90	Rad-58	12.4	0.31	13.6	5.00	12.4	24	-8.82	Acceptable	28-Oct-04	
Ba-133	Rad-58	29.6	1.70	32.1	5.00	31.7	32	-7.79	Acceptable	28-Oct-04	
Cs-134	Rad-58	19	1.62	21.6	5.00	20.6	34	-12.04	Acceptable	28-Oct-04	
Cs-137	Rad-58	189	4.04	193	9.65	196	32	-2.07	Acceptable	28-Oct-04	
Co-60	Rad-58	24.1	3.12	24.0	5.00	24.3	33	0.42	Acceptable	28-Oct-04	
Zn-65	Rad-58	152	9.54	143	14.3	152	33	6.29	Acceptable	28-Oct-04	
Gross Alpha	Rad-58	48.1	0.86	57.0	14.3	52.4	53	-15.61	Acceptable	28-Oct-04	
Sr-89	Rad-59	45.4	1.21	45.7	5.00	45.1	14	-0.66	Acceptable	20-Jan-05	
Sr-90	Rad-59	34.5	1.15	36.6	5.00	36.5	18	-5.74	Acceptable	20-Jan-05	
Ba-133	Rad-59	76.3	3.01	78.4	7.84	76.5	22	-2.68	Acceptable	20-Jan-05	
Cs-134	Rad-59	38.2	2.61	42.9	5.00	41.9	24	-10.96	Acceptable	20-Jan-05	
Cs-137	Rad-59	62.2	2.12	60.1	5.00	62.4	23	3.49	Acceptable	20-Jan-05	
Co-60	Rad-59	11.3	3.48	11.7	5.00	12.2	22	-3.42	Acceptable	20-Jan-05	
Zn-65	Rad-59	58	10.30	50.9	5.09	54.3	22	13.95	Acceptable	20-Jan-05	
Gross Alpha	Rad-59	34.1	6.61	31.7	7.93	31.2	54	7.57	Acceptable	20-Jan-05	
Gross Beta	Rad-59	42.9	24.00	36.3	5.00	36.1	50	18.18	Acceptable	20-Jan-05	
I-131	Rad-59	24.6	1.41	22.1	3.00	22.6	22	11.31	Acceptable	20-Jan-05	
Ra-226	Rad-59	8.91	1.32	9.19	1.38	9.1	41	-3.05	Acceptable	20-Jan-05	
Ra-228	Rad-59	6.18	0.29	7.11	1.78	7.1	33	-13.08	Acceptable	20-Jan-05	
U (Nat)	Rad-59	11	0.15	11.4	3.00	11.5	40	-3.51	Acceptable	20-Jan-05	
H-3	Rad-59	22100	666	20700	2070	20800	31	6.76	Acceptable	20-Jan-05	

(a) Three results are reported to ERA, this represents the average of the three results ±1 standard deviation of the mean.
(b) ERA known concentration ±1 standard deviation.
(c) The Performance Evaluation criteria are:
Acceptable = Reported Value falls within the Control Limits.
Not Acceptable = Reported Value falls outside of the Control Limits.
The Control Limits, Warning Limits, and Outlier Criteria are established per the US EPA guidelines contained in the National Standards for Water Proficiency Testing Studies Criteria Document, December 1988.

Table Q-3. Severn Trent Laboratories (STL) Inc., Richland, WA, Performance Data on the DOE Environmental Measurements Laboratory (EML) Quality Assessment Program Studies, 2004

		EML		STL					
Media	Con Short Name	Bq/ Unit[a]	pCi/ Unit[a]	Bq/ Unit[a]	pCi/ Unit[a]	STL/ EML	%Bias	Performance Evaluation[b]	Comments
Water	Am-241	1.31	3.54E+01	1.12	3.03E+01	0.855	-14.50	Acceptable with Warning	
Water	Co-60	163.2	4.41E+03	158.4	4.28E+03	0.971	-2.94	Acceptable	
Water	CS-137	51.95	1.40E+03	51.3	1.39E+03	0.987	-1.25	Acceptable	
Water	Gross Alpha	326	8.81E+03	749.4	2.03E+04	2.299	129.88	Not Acceptable	Corrective Action dated 8/26/2004
Water	Gross Beta	1170.0	3.16E+04	2448.5	6.62E+04	2.093	109.27	Not Acceptable	Corrective Action dated 8/26/2004
Water	H-3	186.6	5.04E+03	215.8	5.83E+03	1.156	15.65	Acceptable	
Water	Pu-238	1.1	2.97E+01	1.080	2.92E+01	0.982	-1.82	Acceptable	
Water	Pu-239	3.08	8.32E+01	2.80	7.57E+01	0.909	-9.09	Acceptable	
Water	Sr-90	4.76	1.29E+02	5.03	1.36E+02	1.057	5.67	Acceptable	
Water	U-234	2.28	6.16E+01	2.24	6.05E+01	0.982	-1.75	Acceptable	
Water	U-238	2.25	6.08E+01	2.21	5.97E+01	0.982	-1.78	Acceptable	
Water	U ug/g	0.182	1.82E-01	0.17	1.70E-01	0.934	-6.59	Acceptable	
Soil	Ac-228	49	1.32E+00	57.8	1.56E+00	1.180	17.96	Acceptable	
Soil	Am-241	13	3.51E-01	12.3	3.32E-01	0.946	-5.38	Acceptable	
Soil	Bi-212	50.43	1.36E+00	75.0	2.03E+00	1.487	48.72	Not Acceptable	
Soil	Bi-214	58.4	1.58E+00	58.5	1.58E+00	1.002	0.17	Acceptable	
Soil	Cs-137	1323	3.58E+01	1542.3	4.17E+01	1.166	16.58	Acceptable	
Soil	K-40	539.0	1.46E+01	595.2	1.61E+01	1.104	10.43	Acceptable	
Soil	Pb-212	47.73	1.29E+00	53.8	1.45E+00	1.127	12.72	Acceptable	
Soil	Pb-214	61.00	1.65E+00	68.2	1.84E+00	1.118	11.80	Acceptable	
Soil	Pu-238	0.82	2.22E-02	1.19	3.22E-02	1.451	45.12	Acceptable with Warning	
Soil	Pu-239	22.82	6.17E-01	21.3	5.76E-01	0.933	-6.66	Acceptable	
Soil	Sr-90	51.00	1.38E+00	54.1	1.46E+00	1.061	6.08	Acceptable	
Soil	Th-234	84	2.27E+00	109.1	2.95E+00	1.299	29.88	Acceptable	
Soil	U-234	87.22	2.36E+00	76.9	2.08E+00	0.882	-11.83	Acceptable	
Soil	U-238	89.73	2.43E+00	81.1	2.19E+00	0.904	-9.62	Acceptable	
Soil	U-TOTAL (µg)	7.25	7.25E+00	6.8	6.80E+00	0.938	-6.21	Acceptable	
Vegetation	Am-241	4.93	1.33E+02	5.26	1.42E+02	1.067	6.69	Acceptable	
Vegetation	Cm-244	2.62	7.08E+01	2.47	6.68E+01	0.943	-5.73	Acceptable	
Vegetation	Co-60	14.47	3.91E+02	15.9	4.30E+02	1.099	9.88	Acceptable	
Vegetation	Sr-90	734	1.98E+04	777.8	2.10E+04	1.060	5.97	Acceptable	
Vegetation	Cs-137	584.7	1.58E+04	686	1.85E+04	1.173	17.33	Acceptable	
Vegetation	K-40	720	1.95E+04	810.7	2.19E+04	1.126	12.60	Acceptable	
Vegetation	Pu-238	0.46	1.23E+01	0.46	1.24E+01	1.011	1.10	Acceptable	
Vegetation	Pu-239	6.81	1.84E+02	6.56	1.77E+02	0.963	-3.67	Acceptable	
Air Filter	Am-241	0.105	2.82E+00	0.100	2.70E+00	0.957	-4.31	Acceptable	
Air Filter	Co-60	35.40	9.57E+02	34.2	9.24E+02	0.966	-3.39	Acceptable	
Air Filter	Cs-134	26.40	7.14E+02	27.0	7.30E+02	1.023	2.27	Acceptable	
Air Filter	Cs-137	99.70	2.69E+03	99.90	2.70E+03	1.002	0.20	Acceptable	
Air Filter	Gross Alpha	1.2	3.24E+01	1.18	3.19E+01	0.983	-1.67	Acceptable	
Air Filter	Gross Beta	2.85	7.70E+01	2.88	7.78E+01	1.011	1.05	Acceptable	
Air Filter	Pu-238	0.041	1.09E+00	0.04	1.08E+00	0.988	-1.23	Acceptable	
Air Filter	Pu-239	0.164	4.44E+00	0.18	4.86E+00	1.095	9.49	Acceptable	
Air Filter	Sr-90	1.76	4.76E+01	1.92	5.19E+01	1.091	9.09	Acceptable	
Air Filter	U-234	0.086	2.32E+00	0.089	2.41E+00	1.037	3.73	Acceptable	
Air Filter	U-238	0.09	2.30E+00	0.085	2.30E+00	1.000	0.00	Acceptable	
Air Filter	U-TOTAL (µg)	6.873	6.87E+00	7.05	7.05E+00	1.026	2.58	Acceptable	

(a) Units: Air filter: Filter
Soil: Kg
Vegetation: Kg
Water: L

(b) The Evaluation criteria are:
Acceptable = Reported Value falls within the Control Limits.
Not Acceptable = Reported Value falls outside of the Control Limits.
Acceptable with Warning = Reported Value falls within the Control Limits and outside of the Warning Limits.

Table Q-4. PNNL--Sequim Marine Research Operations, Sequim, WA, Performance Data on the NSI Solutions, Inc. Proficiency Test Data, 2004

Report	Sub-Report	Matrix	Analyte	Method	Value Rptd	Accepted Value	Units	Performance Evaluation[a]	Analysis Date
SM-060	SPEI-001 Trace Metals in Soil	Soil	Aluminum	EPA 200.8	10900	11800.00	mg/kg	Acceptable	10-Mar-04
SM-062	SPEI-001 Trace Metals in Soil	Soil	Aluminum	EPA 200.8	4600	4200	mg/kg	Acceptable	9-Sep-04
SM-060	SPEI-001 Trace Metals in Soil	Soil	Antimony	EPA 200.8	209	82.1	mg/kg	Acceptable	10-Mar-04
SM-062	SPEI-001 Trace Metals in Soil	Soil	Antimony	EPA 200.8	144	88.6	mg/kg	Acceptable	9-Sep-04
SM-060	SPEI-001 Trace Metals in Soil	Soil	Arsenic	EPA 200.8	139	148	mg/kg	Acceptable	10-Mar-04
SM-062	SPEI-001 Trace Metals in Soil	Soil	Arsenic	EPA 200.8	59	54.4	mg/kg	Acceptable	9-Sep-04
SM-060	SPEI-001 Trace Metals in Soil	Soil	Barium	EPA 200.8	521	522	mg/kg	Acceptable	10-Mar-04
SM-062	SPEI-001 Trace Metals in Soil	Soil	Barium	EPA 200.8	364	355	mg/kg	Acceptable	9-Sep-04
SM-060	SPEI-001 Trace Metals in Soil	Soil	Berylium	EPA 200.8	57.2	51.9	mg/kg	Acceptable	10-Mar-04
SM-062	SPEI-001 Trace Metals in Soil	Soil	Berylium	EPA 200.8	105	72.8	mg/kg	Not Acceptable	9-Sep-04
SM-062	SPEI-001 Trace Metals in Soil	Soil	Boron	EPA 200.8	108	85.9	mg/kg	Acceptable	9-Sep-04
SM-060	SPEI-001 Trace Metals in Soil	Soil	Cadmium	EPA 200.8	170	166	mg/kg	Acceptable	10-Mar-04
SM-062	SPEI-001 Trace Metals in Soil	Soil	Cadmium	EPA 200.8	98.1	92.8	mg/kg	Acceptable	9-Sep-04
SM-060	SPEI-001 Trace Metals in Soil	Soil	Calcium	EPA 200.8	28500	34700	mg/kg	Acceptable	10-Mar-04
SM-060	SPEI-001 Trace Metals in Soil	Soil	Chromium	EPA 200.8	117	107	mg/kg	Acceptable	10-Mar-04
SM-062	SPEI-001 Trace Metals in Soil	Soil	Chromium	EPA 200.8	152	131	mg/kg	Acceptable	9-Sep-04
SM-060	SPEI-001 Trace Metals in Soil	Soil	Cobalt	EPA 200.8	132	123	mg/kg	Acceptable	10-Mar-04
SM-062	SPEI-001 Trace Metals in Soil	Soil	Cobalt	EPA 200.8	97.4	91.9	mg/kg	Acceptable	9-Sep-04
SM-060	SPEI-001 Trace Metals in Soil	Soil	Copper	EPA 200.8	131	131	mg/kg	Acceptable	10-Mar-04
SM-062	SPEI-001 Trace Metals in Soil	Soil	Copper	EPA 200.8	174	171	mg/kg	Acceptable	9-Sep-04
SM-060	SPEI-001 Trace Metals in Soil	Soil	Iron	EPA 200.8	11900	11300	mg/kg	Acceptable	10-Mar-04
SM-062	SPEI-001 Trace Metals in Soil	Soil	Iron	EPA 200.8	13300	10900	mg/kg	Acceptable	9-Sep-04
SM-060	SPEI-001 Trace Metals in Soil	Soil	Lead	EPA 200.8	124	120	mg/kg	Acceptable	10-Mar-04
SM-062	SPEI-001 Trace Metals in Soil	Soil	Lead	EPA 200.8	168	166	mg/kg	Acceptable	9-Sep-04
SM-060	SPEI-001 Trace Metals in Soil	Soil	Magnesium	EPA 200.8	15600	16600	mg/kg	Acceptable	10-Mar-04
SM-060	SPEI-001 Trace Metals in Soil	Soil	Manganese	EPA 200.8	489	475	mg/kg	Acceptable	10-Mar-04
SM-062	SPEI-001 Trace Metals in Soil	Soil	Manganese	EPA 200.8	461	457	mg/kg	Acceptable	9-Sep-04
SM-060	SPEI-001 Trace Metals in Soil	Soil	Mercury	EPA 245.5M	18.5	19.0	mg/kg	Acceptable	9-Mar-04
SM-062	SPEI-001 Trace Metals in Soil	Soil	Mercury	EPA 245.5M	11.8	12.2	mg/kg	Acceptable	9-Sep-04
SM-060	SPEI-001 Trace Metals in Soil	Soil	Molybdenum	EPA 200.8	33.3	30.3	mg/kg	Acceptable	10-Mar-04
SM-062	SPEI-001 Trace Metals in Soil	Soil	Molybdenum	EPA 200.8	149	150	mg/kg	Acceptable	9-Sep-04
SM-060	SPEI-001 Trace Metals in Soil	Soil	Nickel	EPA 200.8	92.0	87.6	mg/kg	Acceptable	10-Mar-04
SM-062	SPEI-001 Trace Metals in Soil	Soil	Nickel	EPA 200.8	84.0	78.4	mg/kg	Acceptable	9-Sep-04
SM-060	SPEI-001 Trace Metals in Soil	Soil	Potassium	EPA 200.7M	3911.0	3960	mg/kg	Acceptable	4-Mar-04
SM-062	SPEI-001 Trace Metals in Soil	Soil	Potassium	EPA 200.7M	2037	1980	mg/kg	Acceptable	9-Sep-04
SM-060	SPEI-001 Trace Metals in Soil	Soil	Selenium	EPA 200.8	69.8	67.5	mg/kg	Acceptable	10-Mar-04
SM-062	SPEI-001 Trace Metals in Soil	Soil	Selenium	EPA 200.8	168	169	mg/kg	Acceptable	9-Sep-04
SM-060	SPEI-001 Trace Metals in Soil	Soil	Silver	EPA 200.8	90.2	75.7	mg/kg	Acceptable	10-Mar-04
SM-062	SPEI-001 Trace Metals in Soil	Soil	Silver	EPA 200.8	186	129	mg/kg	Acceptable	9-Sep-04
SM-060	SPEI-001 Trace Metals in Soil	Soil	Sodium	EPA 200.8	346	454	mg/kg	Acceptable	10-Mar-04
SM-062	SPEI-001 Trace Metals in Soil	Soil	Strontium	EPA 200.8	177	159	mg/kg	Acceptable	9-Sep-04
SM-060	SPEI-001 Trace Metals in Soil	Soil	Thallium	EPA 200.8	119	111	mg/kg	Acceptable	10-Mar-04
SM-062	SPEI-001 Trace Metals in Soil	Soil	Thallium	EPA 200.8	165	152	mg/kg	Acceptable	9-Sep-04
SM-062	SPEI-001 Trace Metals in Soil	Soil	Tin	EPA 200.8	185	174	mg/kg	Acceptable	9-Sep-04
SM-060	SPEI-001 Trace Metals in Soil	Soil	Titanium	EPA 200.8	287	227	mg/kg	Acceptable	4-Mar-04
SM-060	SPEI-001 Trace Metals in Soil	Soil	Vanadium	EPA 200.8	117	116	mg/kg	Acceptable	10-Mar-04
SM-062	SPEI-001 Trace Metals in Soil	Soil	Vanadium	EPA 200.8	146	132	mg/kg	Acceptable	9-Sep-04
SM-060	SPEI-001 Trace Metals in Soil	Soil	Zinc	EPA 200.8	183	178	mg/kg	Acceptable	10-Mar-04
SM-062	SPEI-001 Trace Metals in Soil	Soil	Zinc	EPA 200.8	708	730	mg/kg	Acceptable	9-Sep-04
WP-091	PEI-034-1Trace metals	Water	Aluminum	EPA 200.8	277	233	ug/L	Check	4-Mar-04
WP-096	PEI-034-1Trace metals	Water	Aluminum	EPA 200.8	2420	2500	ug/L	Acceptable	17-Nov-04
WS-055	PEI-016-2 Trace Metals	Water	Aluminum	EPA 200.8	3286	3300	ug/L	Acceptable	18-Feb-04
WS-057	PEI-016-2 Trace Metals	Water	Aluminum	EPA 200.8	2610	2500	ug/L	Acceptable	24-May-04
WS-058	PEI-016-2 Trace Metals	Water	Aluminum	EPA 200.8	1320	1330	ug/L	Acceptable	9-Sep-04
WP-091	PEI-034-1Trace metals	Water	Antimony	EPA 200.8	495	500	ug/L	Acceptable	4-Mar-04
WP-096	PEI-034-1Trace metals	Water	Antimony	EPA 200.8	366	375	ug/L	Acceptable	17-Nov-04
WS-055	PEI-016-1 Trace Metals	Water	Antimony	EPA 200.8	24.0	25.0	ug/L	Acceptable	18-Feb-04
WS-057	PEI-016-1 Trace Metals	Water	Antimony	EPA 200.8	26.1	25.0	ug/L	Acceptable	24-May-04
WS-058	PEI-016-1 Trace Metals	Water	Antimony	EPA 200.8	16.1	16.7	ug/L	Acceptable	9-Sep-04
WP-091	PEI-034-1Trace metals	Water	Arsenic	EPA 200.8	101	100	ug/L	Acceptable	4-Mar-04
WP-096	PEI-034-1Trace metals	Water	Arsenic	EPA 200.8	144	150	ug/L	Acceptable	17-Nov-04
WS-055	PEI-016-1 Trace Metals	Water	Arsenic	EPA 200.8	151	150	ug/L	Acceptable	18-Feb-04
WS-057	PEI-016-1 Trace Metals	Water	Arsenic	EPA 200.8	77.2	75	ug/L	Acceptable	24-May-04
WS-058	PEI-016-1 Trace Metals	Water	Arsenic	EPA 200.8	119	117	ug/L	Acceptable	9-Sep-04
WP-091	PEI-034-1Trace metals	Water	Barium	EPA 200.8	508	500	ug/L	Acceptable	4-Mar-04
WP-096	PEI-034-1Trace metals	Water	Barium	EPA 200.8	827	825	ug/L	Acceptable	17-Nov-04
WS-055	PEI-016-1 Trace Metals	Water	Barium	EPA 200.8	1260	1250	ug/L	Acceptable	18-Feb-04

Table Q-4. PNNL--Sequim Marine Research Operations, Sequim, WA, Performance Data on the NSI Solutions, Inc. Proficiency Test Data, 2004

Report	Sub-Report	Matrix	Analyte	Method	Value Rptd	Accepted Value	Units	Performance Evaluation[a]	Analysis Date
WS-057	PEI-016-1 Trace Metals	Water	Barium	EPA 200.8	912	875	ug/L	Acceptable	24-May-04
WS-058	PEI-016-1 Trace Metals	Water	Barium	EPA 200.8	821	833	ug/L	Acceptable	9-Sep-04
WP-091	PEI-034-1Trace metals	Water	Berylium	EPA 200.8	329	333	ug/L	Acceptable	4-Mar-04
WP-096	PEI-034-1Trace metals	Water	Berylium	EPA 200.8	196	200	ug/L	Acceptable	17-Nov-04
WS-055	PEI-016-1 Trace Metals	Water	Berylium	EPA 200.8	2.04	2.50	ug/L	Acceptable	18-Feb-04
WS-057	PEI-016-1 Trace Metals	Water	Berylium	EPA 200.8	7.76	7.5	ug/L	Acceptable	24-May-04
WS-058	PEI-016-1 Trace Metals	Water	Berylium	EPA 200.8	6.73	6.67	ug/L	Acceptable	9-Sep-04
WS-055	PEI-016-2 Trace Metals	Water	Boron	EPA 200.8	1459	1500	ug/L	Acceptable	18-Feb-04
WS-057	PEI-016-2 Trace Metals	Water	Boron	EPA 200.8	590	550	ug/L	Acceptable	24-May-04
WS-058	PEI-016-2 Trace Metals	Water	Boron	EPA 200.8	1310	1330	ug/L	Acceptable	9-Sep-04
WP-091	PEI-034-1Trace metals	Water	Cadmium	EPA 200.8	335	333	ug/L	Acceptable	4-Mar-04
WP-096	PEI-034-1Trace metals	Water	Cadmium	EPA 200.8	113	113	ug/L	Acceptable	17-Nov-04
WS-055	PEI-016-1 Trace Metals	Water	Cadmium	EPA 200.8	23.6	25.0	ug/L	Acceptable	18-Feb-04
WS-057	PEI-016-1 Trace Metals	Water	Cadmium	EPA 200.8	39.6	37.5	ug/L	Acceptable	24-May-04
WS-058	PEI-016-1 Trace Metals	Water	Cadmium	EPA 200.8	23.0	23.3	ug/L	Acceptable	9-Sep-04
WP-091	PEI-027 Minerals	Water	Calcium	EPA 200.7	25.2	27.9	mg/L	Check	18-Feb-04
WP-095	PEI-027 Minerals	Water	Calcium	EPA 200.7	85.1	85.5	mg/L	Acceptable	9-Aug-04
WS-055	PEI-010 Minerals	Water	Calcium	EPA 200.7	103	103	mg/L	Acceptable	18-Feb-04
WS-057	PEI-010 Minerals	Water	Calcium	EPA 200.7	44.8	45.7	mg/L	Acceptable	4-May-04
WS-058	PEI-010 Minerals	Water	Calcium	EPA 200.7	50.9	51.2	mg/L	Acceptable	9-Aug-04
WP-091	PEI-034-1Trace metals	Water	Chromium	EPA 200.8	203	200	ug/L	Acceptable	4-Mar-04
WP-096	PEI-034-1Trace metals	Water	Chromium	EPA 200.8	475	500	ug/L	Acceptable	17-Nov-04
WS-055	PEI-016-1 Trace Metals	Water	Chromium	EPA 200.8	99.1	100	ug/L	Acceptable	18-Feb-04
WS-057	PEI-016-1 Trace Metals	Water	Chromium	EPA 200.8	133	125	ug/L	Acceptable	24-May-04
WS-058	PEI-016-1 Trace Metals	Water	Chromium	EPA 200.8	117	117	ug/L	Acceptable	9-Sep-04
WP-091	PEI-034-1Trace metals	Water	Cobalt	EPA 200.8	839	833	ug/L	Acceptable	4-Mar-04
WP-096	PEI-034-1Trace metals	Water	Cobalt	EPA 200.8	73.2	75.0	ug/L	Acceptable	17-Nov-04
WP-091	PEI-034-1Trace metals	Water	Copper	EPA 200.8	500	500	ug/L	Acceptable	4-Mar-04
WP-096	PEI-034-1Trace metals	Water	Copper	EPA 200.8	435	450	ug/L	Acceptable	17-Nov-04
WS-055	PEI-016-1 Trace Metals	Water	Copper	EPA 200.8	761	750	ug/L	Acceptable	18-Feb-04
WS-057	PEI-016-1 Trace Metals	Water	Copper	EPA 200.8	1530	1450	ug/L	Acceptable	24-May-04
WS-058	PEI-016-1 Trace Metals	Water	Copper	EPA 200.8	1310	1330	ug/L	Acceptable	9-Sep-04
WP-096	PEI-034-1Trace metals	Water	Iron	EPA 200.8	1600	1750	ug/L	Check	17-Nov-04
WS-055	PEI-016-1 Trace Metals	Water	Iron	EPA 200.8	49.8	50.0	ug/L	Acceptable	18-Feb-04
WS-058	PEI-016-2 Trace Metals	Water	Iron	EPA 200.8	2470	2500	ug/L	Acceptable	9-Sep-04
WP-091	PEI-034-1Trace metals	Water	Lead	EPA 200.8	102	100	ug/L	Acceptable	4-Mar-04
WP-096	PEI-034-1Trace metals	Water	Lead	EPA 200.8	1390	1430	ug/L	Acceptable	17-Nov-04
WS-055	PEI-016-1 Trace Metals	Water	Lead	EPA 200.8	49.8	50.0	ug/L	Acceptable	18-Feb-04
WS-057	PEI-016-1 Trace Metals	Water	Lead	EPA 200.8	79.8	75.0	ug/L	Acceptable	24-May-04
WS-058	PEI-016-1 Trace Metals	Water	Lead	EPA 200.8	80.7	83.3	ug/L	Acceptable	9-Sep-04
WP-091	PEI-027 Minerals	Water	Magnesium	EPA 200.7	11.5	12.9	mg/L	Check	18-Feb-04
WP-095	PEI-027 Minerals	Water	Magnesium	EPA 200.7	28.0	28.1	mg/L	Acceptable	9-Aug-04
WS-055	PEI-010 Minerals	Water	Magnesium	EPA 200.7	10200	9960	mg/L	Acceptable	18-Feb-04
WS-057	PEI-010 Minerals	Water	Magnesium	EPA 200.7	9690	9820	mg/L	Acceptable	4-May-04
WS-058	PEI-010 Minerals	Water	Magnesium	EPA 200.7	23022	22700	mg/L	Acceptable	9-Aug-04
WP-091	PEI-034-1Trace metals	Water	Manganese	EPA 200.8	673	677	ug/L	Acceptable	4-Mar-04
WP-096	PEI-034-1Trace metals	Water	Manganese	EPA 200.8	121	113	ug/L	Acceptable	17-Nov-04
WS-055	PEI-016-2 Trace Metals	Water	Manganese	EPA 200.8	614	600	ug/L	Acceptable	18-Feb-04
WS-057	PEI-016-2 Trace Metals	Water	Manganese	EPA 200.8	957	900	ug/L	Not Acceptable	24-May-04
WS-058	PEI-016-2 Trace Metals	Water	Manganese	EPA 200.8	32.5	33.3	ug/L	Acceptable	9-Sep-04
WP-091	PEI-087 Mercury	Water	Mercury	EPA 1631E	9.10	9.51	ug/L	Acceptable	26-Feb-04
WS-055	PEI-088 Mercury	Water	Mercury	EPA 1631M	5.50	5.58	ug/L	Acceptable	18-Feb-04
WS-057	PEI-088 Mercury	Water	Mercury	EPA 1631E	7.60	7.60	ug/L	Acceptable	24-May-04
WS-057	PEI-088 Mercury	Water	Mercury	EPA 1631M	7.6	7.60	mg/L	Acceptable	14-May-04
WS-058	PEI-088 Mercury	Water	Mercury	EPA 1631E	8.46	8.33	ug/L	Acceptable	9-Sep-04
WP-091	PEI-034-1Trace metals	Water	Molybdenum	EPA 200.8	339	333	ug/L	Acceptable	4-Mar-04
WP-096	PEI-034-1Trace metals	Water	Molybdenum	EPA 200.8	49.0	50.0	ug/L	Acceptable	17-Nov-04
WS-055	PEI-016-2 Trace Metals	Water	Molybdenum	EPA 200.8	50.6	50.0	ug/L	Acceptable	18-Feb-04
WS-057	PEI-016-2 Trace Metals	Water	Molybdenum	EPA 200.8	134	125	ug/L	Acceptable	24-May-04
WS-058	PEI-016-2 Trace Metals	Water	Molybdenum	EPA 200.8	10.4	10.0	ug/L	Acceptable	9-Sep-04
WP-091	PEI-034-1Trace metals	Water	Nickel	EPA 200.8	1666	1670	ug/L	Acceptable	4-Mar-04
WP-096	PEI-034-1Trace metals	Water	Nickel	EPA 200.8	1190	1250	ug/L	Acceptable	17-Nov-04
WS-055	PEI-016-1 Trace Metals	Water	Nickel	EPA 200.8	200	200	ug/L	Acceptable	18-Feb-04
WS-057	PEI-016-1 Trace Metals	Water	Nickel	EPA 200.8	393	375	ug/L	Acceptable	24-May-04
WS-058	PEI-016-1 Trace Metals	Water	Nickel	EPA 200.8	331	333	ug/L	Acceptable	9-Sep-04
WP-091	PEI-034-1Trace metals	Water	pH	SM 4500H+B	5.51	5.50	units	Acceptable	16-Feb-04
WS-057	PEI-083 pH	Water	pH	SM4500H+B	5.02	5.00	units	Acceptable	19-May-04

Table Q-4. PNNL--Sequim Marine Research Operations, Sequim, WA, Performance Data on the NSI Solutions, Inc. Proficiency Test Data, 2004

Report	Sub-Report	Matrix	Analyte	Method	Value Rptd	Accepted Value	Units	Performance Evaluation[a]	Analysis Date
WS-058	PEI-083 pH	Water	pH	SM4500H+B	6.33	6.30	units	Acceptable	9-Sep-04
WP-091	PEI-027 Minerals	Water	Potassium	EPA 200.7	5.40	5.85	mg/L	Acceptable	18-Feb-04
WP-095	PEI-027 Minerals	Water	Potassium	EPA 200.7	31.2	31.2	mg/L	Acceptable	9-Aug-04
WS-055	PEI-010 Minerals	Water	Potassium	EPA 200.7	29.1	29.0	mg/L	Acceptable	18-Feb-04
WS-057	PEI-010 Minerals	Water	Potassium	EPA 200.7	27.3	28.5	mg/L	Acceptable	4-May-04
WS-058	PEI-010 Minerals	Water	Potassium	EPA 200.7	10.8	10.8	mg/L	Acceptable	9-Aug-04
WP-091	PEI-034-1Trace metals	Water	Selenium	EPA 200.8	992	1000	ug/L	Acceptable	4-Mar-04
WP-096	PEI-034-1Trace metals	Water	Selenium	EPA 200.8	155	175	ug/L	Acceptable	17-Nov-04
WS-055	PEI-016-1 Trace Metals	Water	Selenium	EPA 200.8	41.4	50.0	ug/L	Acceptable	18-Feb-04
WS-057	PEI-016-1 Trace Metals	Water	Selenium	EPA 200.8	62.1	62.5	ug/L	Acceptable	24-May-04
WS-058	PEI-016-1 Trace Metals	Water	Selenium	EPA 200.8	101	100	ug/L	Acceptable	9-Sep-04
WP-091	PEI-034-1Trace metals	Water	Silver	EPA 200.8	340	333	ug/L	Acceptable	4-Mar-04
WP-096	PEI-034-1Trace metals	Water	Silver	EPA 200.8	230	250	ug/L	Acceptable	17-Nov-04
WS-055	PEI-016-2 Trace Metals	Water	Silver	EPA 200.8	91.6	100	ug/L	Acceptable	18-Feb-04
WS-057	PEI-016-2 Trace Metals	Water	Silver	EPA 200.8	172	175	ug/L	Acceptable	24-May-04
WS-058	PEI-016-2 Trace Metals	Water	Silver	EPA 200.8	118	117	ug/L	Acceptable	9-Sep-04
WP-091	PEI-027 Minerals	Water	Sodium	EPA 200.7	44.1	51	mg/L	Not Acceptable	18-Feb-04
WP-095	PEI-027 Minerals	Water	Sodium	EPA 200.7	75.6	78.0	mg/L	Acceptable	9-Aug-04
WS-055	PEI-010 Minerals	Water	Sodium	EPA 200.7	20.9	19.9	mg/L	Acceptable	18-Feb-04
WS-057	PEI-010 Minerals	Water	Sodium	EPA 200.7	14.9	14.8	mg/L	Acceptable	4-May-04
WS-058	PEI-010 Minerals	Water	Sodium	EPA 200.7	19.2	18.9	mg/L	Acceptable	9-Aug-04
WP-091	PEI-027 Minerals	Water	Specific Conductance(st 25C)	SM 2510B	529	543	umhos/cm	Acceptable	19-Feb-04
WP-095	PEI-027 Minerals	Water	Specific Conductance(st 25C)	SM 2510B	1150	1120	umhos/cm	Acceptable	21-Aug-04
WS-055	PEI-010 Minerals	Water	Specific Conductance(st 25C)	SM 2510B	856	863	umhos/cm	Acceptable	18-Feb-04
WS-057	PEI-010 Minerals	Water	Specific Conductance(st 25C)	SM 2510B	511	519	umhos/cm	Acceptable	5-May-04
WS-058	PEI-010 Minerals	Water	Specific Conductance(st 25C)	SM 2510B	626	625	umhos/cm	Acceptable	9-Aug-04
WP-091	PEI-034-1Trace metals	Water	Strontium	EPA 200.8	170	167	ug/L	Acceptable	4-Mar-04
WP-096	PEI-034-1Trace metals	Water	Strontium	EPA 200.8	271	275	ug/L	Acceptable	17-Nov-04
WP-091	PEI-034-1Trace metals	Water	Thallium	EPA 200.8	684	667	ug/L	Acceptable	4-Mar-04
WP-096	PEI-034-1Trace metals	Water	Thallium	EPA 200.8	291	300	ug/L	Acceptable	17-Nov-04
WS-055	PEI-016-1 Trace Metals	Water	Thallium	EPA 200.8	5.24	5.00	ug/L	Acceptable	18-Feb-04
WS-057	PEI-016-1 Trace Metals	Water	Thallium	EPA 200.8	8.09	7.50	ug/L	Acceptable	24-May-04
WS-058	PEI-016-1 Trace Metals	Water	Thallium	EPA 200.8	3.39	3.33	ug/L	Acceptable	9-Sep-04
WP-091	PEI-027 Minerals	Water	Total alkalinity(CaCO3)	EPA 310.1	37.0	35.5	mg/L	Acceptable	20-Feb-04
WP-095	PEI-027 Minerals	Water	Total alkalinity(CaCO3)	EPA 310.1	107	111	mg/L	Acceptable	21-Aug-04
WS-055	PEI-010 Minerals	Water	Total alkalinity(CaCO3)	EPA 310.1	47.03	43.3	mg/L	Acceptable	18-Feb-04
WS-057	PEI-010 Minerals	Water	Total alkalinity(CaCO3)	EPA 310.1	35.4	32.2	mg/L	Acceptable	5-May-04
WS-058	PEI-010 Minerals	Water	Total alkalinity(CaCO3)	EPA 310.1	44.3	41.1	mg/L	Acceptable	9-Aug-04
WP-091	PEI-027 Minerals	Water	Total dissolved solids(TDS)	EPA 160.1	282	296	mg/L	Acceptable	23-Feb-04
WP-095	PEI-027 Minerals	Water	Total dissolved solids(TDS)	EPA 160.1	730	690	mg/L	Acceptable	21-Aug-04
WS-055	PEI-010 Minerals	Water	Total dissolved solids(TDS)	EPA 160.1	502	452	mg/L	Acceptable	18-Feb-04
WS-057	PEI-010 Minerals	Water	Total dissolved solids(TDS)	EPA 160.1	362	452	mg/L	Acceptable	5-May-04
WS-058	PEI-010 Minerals	Water	Total dissolved solids(TDS)	EPA 160.1	484	424	mg/L	Acceptable	9-Aug-04
WP-091	PEI-027 Minerals	Water	Total hardness (CaCO3)	SM 2340B	110	123	mg/L	Not Acceptable	18-Feb-04
WP-095	PEI-027 Minerals	Water	Total hardness (CaCO3)	SM 2340B	328.1	329	mg/L	Acceptable	9-Aug-04
WS-055	PEI-010 Minerals	Water	Total hardness (CaCO3)	SM 2340B	301	297	mg/L	Acceptable	18-Feb-04
WS-057	PEI-010 Minerals	Water	Total hardness (CaCO3)	SM 2340B	152	155	mg/L	Acceptable	4-May-04
WS-058	PEI-010 Minerals	Water	Total hardness (CaCO3)	SM 2340B	222	222	mg/L	Acceptable	9-Aug-04
WP-091	PEI-027 Minerals	Water	Total solids	EPA 160.3	282	308	mg/L	Acceptable	26-Feb-04
WP-095	PEI-027 Minerals	Water	Total solids	EPA 160.3	698	732	mg/L	Acceptable	21-Aug-04
WP-091	PEI-034-1Trace metals	Water	Vanadium	EPA 200.8	665	667	ug/L	Acceptable	4-Mar-04
WP-096	PEI-034-1Trace metals	Water	Vanadium	EPA 200.8	1180	1250	ug/L	Acceptable	17-Nov-04
WS-055	PEI-016-1 Trace Metals	Water	Vanadium	EPA 200.8	7570	7500	ug/L	Acceptable	18-Feb-04
WS-057	PEI-016-1 Trace Metals	Water	Vanadium	EPA 200.8	7700	7500	ug/L	Acceptable	24-May-04
WS-058	PEI-016-1 Trace Metals	Water	Vanadium	EPA 200.8	195	200	ug/L	Acceptable	9-Sep-04
WP-091	PEI-034-1Trace metals	Water	Zinc	EPA 200.8	234	233	ug/L	Acceptable	4-Mar-04
WP-096	PEI-034-1Trace metals	Water	Zinc	EPA 200.8	978	1000	ug/L	Acceptable	17-Nov-04
WS-055	PEI-016-2 Trace Metals	Water	Zinc	EPA 200.8	2730	2750	ug/L	Acceptable	18-Feb-04
WS-057	PEI-016-2 Trace Metals	Water	Zinc	EPA 200.8	1634	1630	ug/L	Acceptable	24-May-04
WS-058	PEI-016-2 Trace Metals	Water	Zinc	EPA 200.8	488	500	ug/L	Acceptable	9-Sep-04

(a) The Evaluation criteria are:

Acceptable = Reported Value falls within the Control Limits.

Not Acceptable = Reported Value falls outside of the Control Limits.

Check = Data acceptable but results near acceptance limit so procedure should be reviewed.

Table Q-5. Biota Sample Field Duplicate Results, 2004

OWNER ID	SAMP NUM	SAMP SITE NAME	SAMP FROM	SAMP ITEM	SAMP DATE	CON SHORT NAME	LAB QUALIFIER	VALUE RPTD	ANAL UNITS RPTD	COUNTING ERROR	TOTAL ANAL ERROR	MIN DETECTABLE ACTIVITY	REPLICATE ID	LAB QUALIFIER	REPLICATE VALUE	RELATIVE % DIFFERENCE
SESPMNT	**B18X24**	**SAGEMOOR COMPOSITE**	**COW**	**MILK**	**09-Apr-04**	**Be-7**	**U**	**-3.25**	**pCi/L**	**27**	**27**	**46.3**				
SESPSPEC	B18X07	FRANKLIN FARM B	COW	MILK	09-Apr-04	Be-7	U	7.21	pCi/L	23	23	40.6	**B18X24**	**U**	**-3.25**	
SESPSPEC	B18X08	FRANKLIN FARM A	COW	MILK	09-Apr-04	Be-7	U	13	pCi/L	26	26	46	**B18X24**	**U**	**-3.25**	
SESPMNT	**B18X24**	**SAGEMOOR COMPOSITE**	**COW**	**MILK**	**09-Apr-04**	**Co-60**	**U**	**-0.329**	**pCi/L**	**3.1**	**3.1**	**5.51**				
SESPSPEC	B18X07	FRANKLIN FARM B	COW	MILK	09-Apr-04	Co-60	U	-1.68	pCi/L	2.8	2.8	4.63	**B18X24**	**U**	**-0.329**	
SESPSPEC	B18X08	FRANKLIN FARM A	COW	MILK	09-Apr-04	Co-60	U	-2.13	pCi/L	3.5	3.5	5.83	**B18X24**	**U**	**-0.329**	
SESPMNT	**B18X24**	**SAGEMOOR COMPOSITE**	**COW**	**MILK**	**09-Apr-04**	**Cs-134**	**U**	**1.07**	**pCi/L**	**3.2**	**3.2**	**5.62**				
SESPSPEC	B18X07	FRANKLIN FARM B	COW	MILK	09-Apr-04	Cs-134	U	1.69	pCi/L	3	3	5.43	**B18X24**	**U**	**1.07**	
SESPSPEC	B18X08	FRANKLIN FARM A	COW	MILK	09-Apr-04	Cs-134	U	0.433	pCi/L	3.5	3.5	6.23	**B18X24**	**U**	**1.07**	
SESPMNT	**B18X24**	**SAGEMOOR COMPOSITE**	**COW**	**MILK**	**09-Apr-04**	**Cs-137**	**U**	**2.49**	**pCi/L**	**2.8**	**2.8**	**5.16**				
SESPSPEC	B18X07	FRANKLIN FARM B	COW	MILK	09-Apr-04	Cs-137	U	-0.546	pCi/L	2.7	2.7	4.62	**B18X24**	**U**	**2.49**	
SESPSPEC	B18X08	FRANKLIN FARM A	COW	MILK	09-Apr-04	Cs-137	U	0.523	pCi/L	3	3	5.22	**B18X24**	**U**	**2.49**	
SESPMNT	**B18X24**	**SAGEMOOR COMPOSITE**	**COW**	**MILK**	**09-Apr-04**	**Eu-152**	**U**	**-3.72**	**pCi/L**	**8**	**8**	**13.4**				
SESPSPEC	B18X07	FRANKLIN FARM B	COW	MILK	09-Apr-04	Eu-152	U	0.78	pCi/L	7.1	7.1	12.1	**B18X24**	**U**	**-3.72**	
SESPSPEC	B18X08	FRANKLIN FARM A	COW	MILK	09-Apr-04	Eu-152	U	-2.07	pCi/L	8.2	8.2	13.9	**B18X24**	**U**	**-3.72**	
SESPMNT	**B18X24**	**SAGEMOOR COMPOSITE**	**COW**	**MILK**	**09-Apr-04**	**Eu-154**	**U**	**2.26**	**pCi/L**	**8.8**	**8.8**	**15.9**				
SESPSPEC	B18X07	FRANKLIN FARM B	COW	MILK	09-Apr-04	Eu-154	U	1.42	pCi/L	8.6	8.6	15.4	**B18X24**	**U**	**2.26**	
SESPSPEC	B18X08	FRANKLIN FARM A	COW	MILK	09-Apr-04	Eu-154	U	-0.786	pCi/L	11	11	19.5	**B18X24**	**U**	**2.26**	
SESPMNT	**B18X24**	**SAGEMOOR COMPOSITE**	**COW**	**MILK**	**09-Apr-04**	**Eu-155**	**U**	**1.91**	**pCi/L**	**6.8**	**6.8**	**11.6**				
SESPSPEC	B18X07	FRANKLIN FARM B	COW	MILK	09-Apr-04	Eu-155	U	4.15	pCi/L	6.9	6.9	11.7	**B18X24**	**U**	**1.91**	
SESPSPEC	B18X08	FRANKLIN FARM A	COW	MILK	09-Apr-04	Eu-155	U	2.6	pCi/L	8.1	8.1	13.7	**B18X24**	**U**	**1.91**	
SESPMNT	**B18X24**	**SAGEMOOR COMPOSITE**	**COW**	**MILK**	**09-Apr-04**	**K-40**		**982**	**pCi/L**	**170**	**170**	**54**				
SESPSPEC	B18X07	FRANKLIN FARM B	COW	MILK	09-Apr-04	K-40		1140	pCi/L	220	220	43.9	**B18X24**		**982**	15
SESPSPEC	B18X08	FRANKLIN FARM A	COW	MILK	09-Apr-04	K-40		1090	pCi/L	190	190	54.5	**B18X24**		**982**	10
SESPMNT	**B18X24**	**SAGEMOOR COMPOSITE**	**COW**	**MILK**	**09-Apr-04**	**Ru-106**	**U**	**1.42**	**pCi/L**	**25**	**25**	**43.2**				
SESPSPEC	B18X07	FRANKLIN FARM B	COW	MILK	09-Apr-04	Ru-106	U	-8.19	pCi/L	25	25	42.4	**B18X24**	**U**	**1.42**	
SESPSPEC	B18X08	FRANKLIN FARM A	COW	MILK	09-Apr-04	Ru-106	U	3.71	pCi/L	27	27	47.2	**B18X24**	**U**	**1.42**	
SESPMNT	**B18X24**	**SAGEMOOR COMPOSITE**	**COW**	**MILK**	**09-Apr-04**	**Sb-125**	**U**	**-4.58**	**pCi/L**	**7.3**	**7.3**	**12**				
SESPSPEC	B18X07	FRANKLIN FARM B	COW	MILK	09-Apr-04	Sb-125	U	1.6	pCi/L	7	7	12.2	**B18X24**	**U**	**-4.58**	
SESPSPEC	B18X08	FRANKLIN FARM A	COW	MILK	09-Apr-04	Sb-125	U	0.102	pCi/L	7.7	7.7	13.1	**B18X24**	**U**	**-4.58**	
SESPMNT	**B18X24**	**SAGEMOOR COMPOSITE**	**COW**	**MILK**	**09-Apr-04**	**Sr-90**		**0.304**	**pCi/L**	**0.17**	**0.21**	**0.295**				
SESPSPEC	B18X07	FRANKLIN FARM B	COW	MILK	09-Apr-04	Sr-90	U	0.255	pCi/L	0.25	0.28	0.459	**B18X24**		**0.304**	18
SESPSPEC	B18X08	FRANKLIN FARM A	COW	MILK	09-Apr-04	Sr-90	U	0.159	pCi/L	0.16	0.2	0.302	**B18X24**		**0.304**	63
SESPMNT	**B18X26**	**SAGEMOOR COMPOSITE**	**COW**	**MILK**	**09-Apr-04**	**TRITIUM**		**15.9**	**pCi/L**		**0.6**					
SESPSPEC	B18X22	FRANKLIN FARM A	COW	MILK	09-Apr-04	TRITIUM		13.1	pCi/L		0.6		**B18X26**		**15.9**	19
SESPSPEC	B18X23	FRANKLIN FARM B	COW	MILK	09-Apr-04	TRITIUM		26.3	pCi/L		0.8		**B18X26**		**15.9**	49
SESPMNT	**B1BJ98**	**SAGEMOOR COMPOSITE**	**COW**	**MILK**	**22-Oct-04**	**Be-7**	**U**	**13.7**	**pCi/L**	**24**	**24**	**43.5**				
SESPSPEC	B1BJ87	FRANKLIN FARM B	COW	MILK	22-Oct-04	Be-7	U	9.33	pCi/L	22	22	38.1	**B1BJ98**	**U**	**13.7**	
SESPSPEC	B1BJ88	FRANKLIN FARM A	COW	MILK	22-Oct-04	Be-7	U	-4.24	pCi/L	26	26	44.7	**B1BJ98**	**U**	**13.7**	
SESPMNT	**B1BJ98**	**SAGEMOOR COMPOSITE**	**COW**	**MILK**	**22-Oct-04**	**Co-60**	**U**	**0.757**	**pCi/L**	**3.6**	**3.6**	**6.45**				
SESPSPEC	B1BJ87	FRANKLIN FARM B	COW	MILK	22-Oct-04	Co-60	U	1.58	pCi/L	2.9	2.9	5.4	**B1BJ98**		**0.757**	70
SESPSPEC	B1BJ88	FRANKLIN FARM A	COW	MILK	22-Oct-04	Co-60	U	0.0454	pCi/L	3.3	3.3	5.95	**B1BJ98**		**0.757**	177
SESPMNT	**B1BJ98**	**SAGEMOOR COMPOSITE**	**COW**	**MILK**	**22-Oct-04**	**Cs-134**	**U**	**3.67**	**pCi/L**	**3.5**	**3.5**	**6.37**				
SESPSPEC	B1BJ87	FRANKLIN FARM B	COW	MILK	22-Oct-04	Cs-134	U	2.07	pCi/L	3.1	3.1	5.62	**B1BJ98**	**U**	**3.67**	
SESPSPEC	B1BJ88	FRANKLIN FARM A	COW	MILK	22-Oct-04	Cs-134	U	1.49	pCi/L	3.4	3.4	6.01	**B1BJ98**	**U**	**3.67**	
SESPMNT	**B1BJ98**	**SAGEMOOR COMPOSITE**	**COW**	**MILK**	**22-Oct-04**	**Cs-137**	**U**	**1.11**	**pCi/L**	**3**	**3**	**5.32**				

Table Q-5. Biota Sample Field Duplicate Results, 2004

OWNER ID	SAMP NUM	SAMP SITE NAME	SAMP FROM	SAMP ITEM	SAMP DATE	CON SHORT NAME	LAB QUALIFIER	VALUE RPTD	ANAL UNITS RPTD	COUNTING ERROR	TOTAL ANAL ERROR	MIN DETECTABLE ACTIVITY	REPLICATE ID	LAB QUALIFIER	REPLICATE VALUE	RELATIVE % DIFFERENCE
SESPSPEC	B1BJ87	FRANKLIN FARM B	COW	MILK	22-Oct-04	Cs-137	U	-2.57	pCi/L	2.6	2.6	4.15	**B1BJ98**	**U**	**1.11**	
SESPSPEC	B1BJ88	FRANKLIN FARM A	COW	MILK	22-Oct-04	Cs-137	U	-0.477	pCi/L	3.1	3.1	5.29	**B1BJ98**	**U**	**1.11**	
SESPMNT	**B1BJ98**	**SAGEMOOR COMPOSITE**	**COW**	**MILK**	**22-Oct-04**	**Eu-152**	**U**	**9.46**	**pCi/L**	**7.9**	**7.9**	**14.3**				
SESPSPEC	B1BJ87	FRANKLIN FARM B	COW	MILK	22-Oct-04	Eu-152	U	-5.7	pCi/L	6.9	6.9	11.3	**B1BJ98**	**U**	**9.46**	
SESPSPEC	B1BJ88	FRANKLIN FARM A	COW	MILK	22-Oct-04	Eu-152	U	-4.39	pCi/L	8.1	8.1	13.7	**B1BJ98**	**U**	**9.46**	
SESPMNT	**B1BJ98**	**SAGEMOOR COMPOSITE**	**COW**	**MILK**	**22-Oct-04**	**Eu-154**	**U**	**2.61**	**pCi/L**	**9.9**	**9.9**	**17.7**				
SESPSPEC	B1BJ87	FRANKLIN FARM B	COW	MILK	22-Oct-04	Eu-154	U	0.637	pCi/L	8.2	8.2	14.7	**B1BJ98**	**U**	**2.61**	
SESPSPEC	B1BJ88	FRANKLIN FARM A	COW	MILK	22-Oct-04	Eu-154	U	2.16	pCi/L	9.8	9.8	17.4	**B1BJ98**	**U**	**2.61**	
SESPMNT	**B1BJ98**	**SAGEMOOR COMPOSITE**	**COW**	**MILK**	**22-Oct-04**	**Eu-155**	**U**	**2.42**	**pCi/L**	**8.6**	**8.6**	**14.9**				
SESPSPEC	B1BJ87	FRANKLIN FARM B	COW	MILK	22-Oct-04	Eu-155	U	-0.549	pCi/L	6.1	6.1	10.4	**B1BJ98**	**U**	**2.42**	
SESPSPEC	B1BJ88	FRANKLIN FARM A	COW	MILK	22-Oct-04	Eu-155	U	4.16	pCi/L	7.5	7.5	12.8	**B1BJ98**	**U**	**2.42**	
SESPMNT	**B1BJ98**	**SAGEMOOR COMPOSITE**	**COW**	**MILK**	**22-Oct-04**	**K-40**		**1250**	**pCi/L**	**210**	**210**	**49.2**				
SESPSPEC	B1BJ87	FRANKLIN FARM B	COW	MILK	22-Oct-04	K-40		1220	pCi/L	180	180	46.2	**B1BJ98**		**1250**	2
SESPSPEC	B1BJ88	FRANKLIN FARM A	COW	MILK	22-Oct-04	K-40		1380	pCi/L	210	210	41.7	**B1BJ98**		**1250**	10
SESPMNT	**B1BJ98**	**SAGEMOOR COMPOSITE**	**COW**	**MILK**	**22-Oct-04**	**Ru-106**	**U**	**3.58**	**pCi/L**	**26**	**26**	**44.6**				
SESPSPEC	B1BJ87	FRANKLIN FARM B	COW	MILK	22-Oct-04	Ru-106	U	14.2	pCi/L	23	23	42.4	**B1BJ98**	**U**	**3.58**	
SESPSPEC	B1BJ88	FRANKLIN FARM A	COW	MILK	22-Oct-04	Ru-106	U	-23.3	pCi/L	27	27	44.6	**B1BJ98**	**U**	**3.58**	
SESPMNT	**B1BJ98**	**SAGEMOOR COMPOSITE**	**COW**	**MILK**	**22-Oct-04**	**Sb-125**	**U**	**-0.253**	**pCi/L**	**7.9**	**7.9**	**13.3**				
SESPSPEC	B1BJ87	FRANKLIN FARM B	COW	MILK	22-Oct-04	Sb-125	U	1.37	pCi/L	6.6	6.6	11.4	**B1BJ98**	**U**	**-0.253**	
SESPSPEC	B1BJ88	FRANKLIN FARM A	COW	MILK	22-Oct-04	Sb-125	U	6.84	pCi/L	7.8	7.8	14	**B1BJ98**	**U**	**-0.253**	
SESPMNT	**B1BJ98**	**SAGEMOOR COMPOSITE**	**COW**	**MILK**	**22-Oct-04**	**Sr-90**	**U**	**0.0863**	**pCi/L**	**0.25**	**0.47**	**0.471**				
SESPSPEC	B1BJ87	FRANKLIN FARM B	COW	MILK	22-Oct-04	Sr-90	U	0.209	pCi/L	0.22	0.45	0.385	**B1BJ98**	**U**	**0.0863**	
SESPSPEC	B1BJ88	FRANKLIN FARM A	COW	MILK	22-Oct-04	Sr-90	U	0.0378	pCi/L	0.23	0.46	0.427	**B1BJ98**	**U**	**0.0863**	

Table Q-6. Water Sample Field Duplicate Results, 2004

OWNER ID	SAMP NUM	SAMP SITE NAME	SAMP FROM	SAMP DATE	CON SHORT NAME	LAB QUALIFIER	VALUE RPTD	ANAL UNITS RPTD	COUNTING ERROR	TOTAL ANAL ERROR	MIN DETECTABLE ACTIVITY	REPLICATE ID	LAB QUALIFIER	REPLICATE VALUE	RELATIVE % DIFFERENCE
SESPMNT	**B18TH9**	**RICH.PMPHS-1 HRM46.4**	**RIVER**	**30-Mar-04**	**Sr-90**		**0.0442**	**pCi/L**	**0.025**	**0.026**	**0.0409**				
SESPSPEC	B18TF5	RICH.PMPHS-1 HRM46.4	RIVER	30-Mar-04	Sr-90		0.056	pCi/L	0.021	0.024	0.0356	**B18TH9**		**0.0442**	24
SESPMNT	**B18TH9**	**RICH.PMPHS-1 HRM46.4**	**RIVER**	**30-Mar-04**	**TRITIUM**		**72.4**	**pCi/L**	**3.5**	**7.7**	**5.53**				
SESPSPEC	B18TF5	RICH.PMPHS-1 HRM46.4	RIVER	30-Mar-04	TRITIUM		66.4	pCi/L	3.4	7.2	5.5	**B18TH9**		**72.4**	8.6
SESPMNT	**B18TH9**	**RICH.PMPHS-1 HRM46.4**	**RIVER**	**30-Mar-04**	**U-234**		**0.291**	**pCi/L**	**0.042**	**0.062**	**0.00401**				
SESPSPEC	B18TF5	RICH.PMPHS-1 HRM46.4	RIVER	30-Mar-04	U-234		0.293	pCi/L	0.043	0.063	0.0113	**B18TH9**		**0.291**	0.7
SESPMNT	**B18TH9**	**RICH.PMPHS-1 HRM46.4**	**RIVER**	**30-Mar-04**	**U-235**	**U**	**0.00411**	**pCi/L**	**0.0089**	**0.0091**	**0.0137**				
SESPSPEC	B18TF5	RICH.PMPHS-1 HRM46.4	RIVER	30-Mar-04	U-235		0.0105	pCi/L	0.0092	0.0096	0.00416	**B18TH9**	**U**	**0.00411**	
SESPMNT	**B18TH9**	**RICH.PMPHS-1 HRM46.4**	**RIVER**	**30-Mar-04**	**U-238**		**0.291**	**pCi/L**	**0.042**	**0.062**	**0.00401**				
SESPSPEC	B18TF5	RICH.PMPHS-1 HRM46.4	RIVER	30-Mar-04	U-238		0.264	pCi/L	0.041	0.058	0.0142	**B18TH9**		**0.291**	9.7
SESPMNT	**B1B705**	**100 N -1 HRM 9.5**	**RIVER**	**13-Sep-04**	**Sr-90**		**0.0833**	**pCi/L**	**0.036**	**0.051**	**0.0626**				
SESPSPEC	B1B700	100 N -1 HRM 9.5	RIVER	13-Sep-04	Sr-90	U	0.0332	pCi/L	0.039	0.052	0.0753	**B1B705**		**0.0833**	
SESPMNT	**B1B705**	**100 N -1 HRM 9.5**	**RIVER**	**13-Sep-04**	**TRITIUM**		**57.3**	**pCi/L**	**3.6**	**6.8**	**6.22**				
SESPSPEC	B1B700	100 N -1 HRM 9.5	RIVER	13-Sep-04	TRITIUM		39.5	pCi/L	3.1	5.3	5.75	**B1B705**		**57.3**	37
SESPMNT	**B1B705**	**100 N -1 HRM 9.5**	**RIVER**	**13-Sep-04**	**U-234**		**0.2**	**pCi/L**	**0.038**	**0.099**	**0.0131**				
SESPSPEC	B1B700	100 N -1 HRM 9.5	RIVER	13-Sep-04	U-234		0.188	pCi/L	0.037	0.098	0.00469	**B1B705**		**0.2**	6.2
SESPMNT	**B1B705**	**100 N -1 HRM 9.5**	**RIVER**	**13-Sep-04**	**U-235**	**U**	**0.00285**	**pCi/L**	**0.0061**	**0.012**	**0.0116**				
SESPSPEC	B1B700	100 N -1 HRM 9.5	RIVER	13-Sep-04	U-235	U	0.014	pCi/L	0.01	0.015	0.00977	**B1B705**	**U**	**0.00285**	
SESPMNT	**B1B705**	**100 N -1 HRM 9.5**	**RIVER**	**13-Sep-04**	**U-238**		**0.155**	**pCi/L**	**0.034**	**0.097**	**0.0131**				
SESPSPEC	B1B700	100 N -1 HRM 9.5	RIVER	13-Sep-04	U-238		0.16	pCi/L	0.034	0.097	0.00469	**B1B705**		**0.155**	3.2
SESPMNT	**B1BW42**	**RICH.PMPHS-1 HRM46.4**	**RIVER**	**19-Dec-04**	**Sr-90**		**0.0621**	**pCi/L**	**0.022**	**0.026**	**0.0395**				
SESPSPEC	B1BW37	RICH.PMPHS-1 HRM46.4	RIVER	19-Dec-04	Sr-90		0.0829	pCi/L	0.027	0.03	0.0418	**B1BW42**		**0.0621**	29
SESPMNT	**B1BW42**	**RICH.PMPHS-1 HRM46.4**	**RIVER**	**19-Dec-04**	**TRITIUM**		**23.9**	**pCi/L**	**4.5**	**4.5**	**5.86**				
SESPSPEC	B1BW37	RICH.PMPHS-1 HRM46.4	RIVER	19-Dec-04	TRITIUM		28.1	pCi/L	4.7	4.7	5.88	**B1BW42**		**23.9**	16
SESPMNT	**B1BW42**	**RICH.PMPHS-1 HRM46.4**	**RIVER**	**19-Dec-04**	**U-234**		**0.235**	**pCi/L**	**0.037**	**0.1**	**0.0143**				
SESPSPEC	B1BW37	RICH.PMPHS-1 HRM46.4	RIVER	19-Dec-04	U-234		0.413	pCi/L	0.048	0.12	0.016	**B1BW42**		**0.235**	55
SESPMNT	**B1BW42**	**RICH.PMPHS-1 HRM46.4**	**RIVER**	**19-Dec-04**	**U-235**	**U**	**0.00446**	**pCi/L**	**0.0065**	**0.012**	**0.00977**				
SESPSPEC	B1BW37	RICH.PMPHS-1 HRM46.4	RIVER	19-Dec-04	U-235		0.0311	pCi/L	0.013	0.017	0.00361	**B1BW42**	**U**	**0.00446**	
SESPMNT	**B1BW42**	**RICH.PMPHS-1 HRM46.4**	**RIVER**	**19-Dec-04**	**U-238**		**0.231**	**pCi/L**	**0.036**	**0.1**	**0.0123**				
SESPSPEC	B1BW37	RICH.PMPHS-1 HRM46.4	RIVER	19-Dec-04	U-238		0.354	pCi/L	0.045	0.11	0.0143	**B1BW42**		**0.231**	42
SESPMNT	**B18XT9**	**FFTF POND**	**SURFACE**	**19-Apr-04**	**ALPHA**	**U**	**0.778**	**pCi/L**	**1.3**	**1.3**	**2.49**				
SESPSPEC	B18XV0	FFTF POND	SURFACE	19-Apr-04	ALPHA	U	1.74	pCi/L	1.8	1.9	2.93	**B18XT9**	**U**	**0.778**	
SESPMNT	**B18XT9**	**FFTF POND**	**SURFACE**	**19-Apr-04**	**Be-7**	**U**	**1.43**	**pCi/L**	**13**	**13**	**25**				
SESPSPEC	B18XV0	FFTF POND	SURFACE	19-Apr-04	Be-7	U	7.83	pCi/L	12	12	23.6	**B18XT9**	**U**	**1.43**	
SESPMNT	**B18XT9**	**FFTF POND**	**SURFACE**	**19-Apr-04**	**BETA**		**11**	**pCi/L**	**3.3**	**3.8**	**5.13**				
SESPSPEC	B18XV0	FFTF POND	SURFACE	19-Apr-04	BETA		10.1	pCi/L	3	3.3	4.48	**B18XT9**		**11**	8.5
SESPMNT	**B18XT9**	**FFTF POND**	**SURFACE**	**19-Apr-04**	**Co-60**	**U**	**0.416**	**pCi/L**	**1.5**	**1.5**	**3.18**				
SESPSPEC	B18XV0	FFTF POND	SURFACE	19-Apr-04	Co-60	U	-0.181	pCi/L	1.8	1.8	3.38	**B18XT9**	**U**	**0.416**	
SESPMNT	**B18XT9**	**FFTF POND**	**SURFACE**	**19-Apr-04**	**Cs-134**	**U**	**-0.645**	**pCi/L**	**1.6**	**1.6**	**2.71**				
SESPSPEC	B18XV0	FFTF POND	SURFACE	19-Apr-04	Cs-134	U	-0.208	pCi/L	1.8	1.8	3.24	**B18XT9**	**U**	**-0.645**	
SESPMNT	**B18XT9**	**FFTF POND**	**SURFACE**	**19-Apr-04**	**Cs-137**	**U**	**-0.188**	**pCi/L**	**1.6**	**1.6**	**2.88**				
SESPSPEC	B18XV0	FFTF POND	SURFACE	19-Apr-04	Cs-137	U	0.374	pCi/L	3.3	3.3	2.65	**B18XT9**	**U**	**-0.188**	
SESPMNT	**B18XT9**	**FFTF POND**	**SURFACE**	**19-Apr-04**	**Eu-152**	**U**	**-0.648**	**pCi/L**	**4.1**	**4.1**	**7.11**				
SESPSPEC	B18XV0	FFTF POND	SURFACE	19-Apr-04	Eu-152	U	0.843	pCi/L	3.3	3.3	6.29	**B18XT9**	**U**	**-0.648**	
SESPMNT	**B18XT9**	**FFTF POND**	**SURFACE**	**19-Apr-04**	**Eu-154**	**U**	**-4.78**	**pCi/L**	**5.2**	**5.2**	**8.24**				
SESPSPEC	B18XV0	FFTF POND	SURFACE	19-Apr-04	Eu-154	U	0.898	pCi/L	4.2	4.2	8.62	**B18XT9**	**U**	**-4.78**	
SESPMNT	**B18XT9**	**FFTF POND**	**SURFACE**	**19-Apr-04**	**Eu-155**	**U**	**0.227**	**pCi/L**	**3.2**	**3.2**	**5.92**				
SESPSPEC	B18XV0	FFTF POND	SURFACE	19-Apr-04	Eu-155	U	0.0232	pCi/L	2.9	2.9	5.27	**B18XT9**	**U**	**0.227**	
SESPMNT	**B18XT9**	**FFTF POND**	**SURFACE**	**19-Apr-04**	**K-40**	**U**	**-23.7**	**pCi/L**	**25**	**25**	**50.7**				
SESPSPEC	B18XV0	FFTF POND	SURFACE	19-Apr-04	K-40	U	3.82	pCi/L	38	38	25.9	**B18XT9**	**U**	**-23.7**	
SESPMNT	**B18XT9**	**FFTF POND**	**SURFACE**	**19-Apr-04**	**Ru-106**	**U**	**0.974**	**pCi/L**	**13**	**13**	**24.7**				

Table Q-6. Water Sample Field Duplicate Results, 2004

OWNER ID	SAMP NUM	SAMP SITE NAME	SAMP FROM	SAMP DATE	CON SHORT NAME	LAB QUALIFIER	VALUE RPTD	ANAL UNITS RPTD	COUNTING ERROR	TOTAL ANAL ERROR	MIN DETECTABLE ACTIVITY	REPLICATE ID	LAB QUALIFIER	REPLICATE VALUE	RELATIVE % DIFFERENCE
SESPSPEC	B18XV0	FFTF POND	SURFACE	19-Apr-04	Ru-106	U	-10.4	pCi/L	14	14	22.7	**B18XV0**	**U**	**0.974**	
SESPMNT	**B18XT9**	**FFTF POND**	**SURFACE**	**19-Apr-04**	**Sb-125**	**U**	**-0.958**	**pCi/L**	**3.9**	**3.9**	**6.86**				
SESPSPEC	B18XV0	FFTF POND	SURFACE	19-Apr-04	Sb-125	U	-0.893	pCi/L	3.4	3.4	6.02	**B18XT9**	**U**	**-0.958**	
SESPMNT	**B18XT9**	**FFTF POND**	**SURFACE**	**19-Apr-04**	**TRITIUM**		**2890**	**pCi/L**	**210**	**300**	**121**				
SESPSPEC	B18XV0	FFTF POND	SURFACE	19-Apr-04	TRITIUM		2760	pCi/L	200	290	119	**B18XT9**		**2890**	4.6

Table Q-7. Surface Soil Sample Duplicate Results, 2004

OWNER ID	SAMP NUM	SAMP SITE NAME	SAMP FROM	SAMP ITEM	SAMP DATE	CON SHORT NAME	LAB QUALIFIER	VALUE RPTD	ANAL UNITS RPTD	COUNTING ERROR	TOTAL ANAL ERROR	MIN DETECTABLE ACTIVITY	REPLICATE ID	LAB QUALIFIER	REPLICATE VALUE	RELATIVE % DIFFERENCE	RESULT COMMENT
SESPMNT	**B199C7**	**SAGEMOOR FARM**	**SURFACE**	**SURF_SOIL**	**03-Jun-04**	**Be-7**	**U**	**0.0164**	**pCi/g**	**0.36**	**0.36**	**0.617**					
SESPSPEC	B199D8	BASIN FARM B	SURFACE	SURF_SOIL	03-Jun-04	Be-7	U	-0.269	pCi/g	0.36	0.36	0.58	**B199C7**	**U**	**0.0164**		
SESPSPEC	B199D7	BASIN FARM A	SURFACE	SURF_SOIL	03-Jun-04	Be-7	U	0.053	pCi/g	0.51	0.51	0.857	**B199C7**	**U**	**0.0164**		
SESPMNT	**B199C7**	**SAGEMOOR FARM**	**SURFACE**	**SURF_SOIL**	**03-Jun-04**	**Co-60**	**U**	**0.00153**	**pCi/g**	**0.01**	**0.01**	**0.0183**					
SESPSPEC	B199D8	BASIN FARM B	SURFACE	SURF_SOIL	03-Jun-04	Co-60	U	0.00105	pCi/g	0.0097	0.0097	0.017	**B199C7**	**U**	**0.00153**		
SESPSPEC	B199D7	BASIN FARM A	SURFACE	SURF_SOIL	03-Jun-04	Co-60	U	-0.00201	pCi/g	0.013	0.013	0.0218	**B199C7**	**U**	**0.00153**		
SESPMNT	**B199C7**	**SAGEMOOR FARM**	**SURFACE**	**SURF_SOIL**	**03-Jun-04**	**Cs-134**	**U**	**0.0261**	**pCi/g**	**0.012**	**0.012**	**0.0217**					
SESPSPEC	B199D7	BASIN FARM A	SURFACE	SURF_SOIL	03-Jun-04	Cs-134	U	0.0533	pCi/g	0.027	0.027	0.034	**B199C7**	**U**	**0.0261**		
SESPSPEC	B199D8	BASIN FARM B	SURFACE	SURF_SOIL	03-Jun-04	Cs-134	U	0.04	pCi/g	0.018	0.018	0.0238	**B199C7**	**U**	**0.0261**		
SESPMNT	**B199C7**	**SAGEMOOR FARM**	**SURFACE**	**SURF_SOIL**	**03-Jun-04**	**Cs-137**		**0.0541**	**pCi/g**	**0.016**	**0.016**	**0.0169**					
SESPSPEC	B199D7	BASIN FARM A	SURFACE	SURF_SOIL	03-Jun-04	Cs-137	U	-0.014	pCi/g	0.013	0.013	0.0203	**B199C7**		**0.0541**		
SESPSPEC	B199D8	BASIN FARM B	SURFACE	SURF_SOIL	03-Jun-04	Cs-137		0.0534	pCi/g	0.017	0.017	0.0158	**B199C7**		**0.0541**	1.3	
SESPMNT	**B199C7**	**SAGEMOOR FARM**	**SURFACE**	**SURF_SOIL**	**03-Jun-04**	**Eu-152**	**U**	**0.00777**	**pCi/g**	**0.023**	**0.023**	**0.0359**					
SESPSPEC	B199D8	BASIN FARM B	SURFACE	SURF_SOIL	03-Jun-04	Eu-152	U	-0.0171	pCi/g	0.024	0.024	0.0362	**B199C7**	**U**	**0.00777**		
SESPSPEC	B199D7	BASIN FARM A	SURFACE	SURF_SOIL	03-Jun-04	Eu-152	U	-0.0174	pCi/g	0.03	0.03	0.0481	**B199C7**	**U**	**0.00777**		
SESPMNT	**B199C7**	**SAGEMOOR FARM**	**SURFACE**	**SURF_SOIL**	**03-Jun-04**	**Eu-154**	**U**	**-0.00375**	**pCi/g**	**0.036**	**0.036**	**0.062**					
SESPSPEC	B199D8	BASIN FARM B	SURFACE	SURF_SOIL	03-Jun-04	Eu-154	U	-0.00118	pCi/g	0.034	0.034	0.0589	**B199C7**	**U**	**-0.00375**		
SESPSPEC	B199D7	BASIN FARM A	SURFACE	SURF_SOIL	03-Jun-04	Eu-154	U	-0.00567	pCi/g	0.04	0.04	0.0689	**B199C7**	**U**	**-0.00375**		
SESPMNT	**B199C7**	**SAGEMOOR FARM**	**SURFACE**	**SURF_SOIL**	**03-Jun-04**	**Eu-155**	**U**	**0.0518**	**pCi/g**	**0.027**	**0.027**	**0.0448**					
SESPSPEC	B199D8	BASIN FARM B	SURFACE	SURF_SOIL	03-Jun-04	Eu-155	U	0.056	pCi/g	0.026	0.026	0.0444	**B199C7**	**U**	**0.0518**		
SESPSPEC	B199D7	BASIN FARM A	SURFACE	SURF_SOIL	03-Jun-04	Eu-155	U	0.0572	pCi/g	0.04	0.04	0.0671	**B199C7**	**U**	**0.0518**		
SESPMNT	**B199C7**	**SAGEMOOR FARM**	**SURFACE**	**SURF_SOIL**	**03-Jun-04**	**K-40**		**17.9**	**pCi/g**	**2.5**	**2.5**	**0.147**					
SESPSPEC	B199D7	BASIN FARM A	SURFACE	SURF_SOIL	03-Jun-04	K-40		16.3	pCi/g	2.2	2.2	0.178	**B199C7**		**17.9**	9.4	
SESPSPEC	B199D8	BASIN FARM B	SURFACE	SURF_SOIL	03-Jun-04	K-40		18.2	pCi/g	2.7	2.7	0.121	**B199C7**		**17.9**	1.7	
SESPMNT	**B199C7**	**SAGEMOOR FARM**	**SURFACE**	**SURF_SOIL**	**03-Jun-04**	**Pu-238**	**U**	**0.0000387**	**pCi/g**	**0.00013**	**0.00014**	**0.000246**					
SESPSPEC	B199D8	BASIN FARM B	SURFACE	SURF_SOIL	03-Jun-04	Pu-238	U	-0.000153	pCi/g	0.0002	0.0002	0.000643	**B199C7**	**U**	**0.0000387**		
SESPSPEC	B199D7	BASIN FARM A	SURFACE	SURF_SOIL	03-Jun-04	Pu-238	U	0.0000324	pCi/g	0.000093	0.00011	0.000126	**B199C7**	**U**	**0.0000387**		
SESPMNT	**B199C7**	**SAGEMOOR FARM**	**SURFACE**	**SURF_SOIL**	**03-Jun-04**	**Pu-239/240**		**0.00115**	**pCi/g**	**0.00035**	**0.00043**	**0.0000714**					
SESPSPEC	B199D8	BASIN FARM B	SURFACE	SURF_SOIL	03-Jun-04	Pu-239/240		0.00134	pCi/g	0.00062	0.00066	0.000187	**B199C7**		**0.00115**	15	
SESPSPEC	B199D7	BASIN FARM A	SURFACE	SURF_SOIL	03-Jun-04	Pu-239/240		0.00168	pCi/g	0.00058	0.00064	0.000341	**B199C7**		**0.00115**	37	
SESPMNT	**B199C7**	**SAGEMOOR FARM**	**SURFACE**	**SURF_SOIL**	**03-Jun-04**	**Ru-106**	**U**	**0.061**	**pCi/g**	**0.091**	**0.091**	**0.159**					
SESPSPEC	B199D8	BASIN FARM B	SURFACE	SURF_SOIL	03-Jun-04	Ru-106	U	-0.00916	pCi/g	0.089	0.089	0.152	**B199C7**	U	**0.061**		
SESPSPEC	B199D7	BASIN FARM A	SURFACE	SURF_SOIL	03-Jun-04	Ru-106	U	-0.00471	pCi/g	0.12	0.12	0.209	**B199C7**	U	**0.061**		
SESPMNT	**B199C7**	**SAGEMOOR FARM**	**SURFACE**	**SURF_SOIL**	**03-Jun-04**	**Sb-125**	**U**	**-0.00291**	**pCi/g**	**0.022**	**0.022**	**0.0369**					
SESPSPEC	B199D8	BASIN FARM B	SURFACE	SURF_SOIL	03-Jun-04	Sb-125	U	0.000808	pCi/g	0.022	0.022	0.038	**B199C7**	**U**	**-0.00291**		
SESPSPEC	B199D7	BASIN FARM A	SURFACE	SURF_SOIL	03-Jun-04	Sb-125	U	0.005	pCi/g	0.03	0.03	0.0503	**B199C7**	**U**	**-0.00291**		
SESPMNT	**B199C7**	**SAGEMOOR FARM**	**SURFACE**	**SURF_SOIL**	**03-Jun-04**	**Sr-90**	**U**	**-0.0262**	**pCi/g**	**0.02**	**0.047**	**0.0404**					
SESPSPEC	B199D8	BASIN FARM B	SURFACE	SURF_SOIL	03-Jun-04	Sr-90	U	-0.0128	pCi/g	0.021	0.048	0.0404	**B199C7**	**U**	**-0.0262**		
SESPSPEC	B199D7	BASIN FARM A	SURFACE	SURF_SOIL	03-Jun-04	Sr-90	U	0.00368	pCi/g	0.027	0.05	0.0496	**B199C7**	**U**	**-0.0262**		
SESPMNT	**B199C7**	**SAGEMOOR FARM**	**SURFACE**	**SURF_SOIL**	**03-Jun-04**	**U-234**		**0.162**	**pCi/g**	**0.037**	**0.08**	**0.00521**					
SESPSPEC	B199D7	BASIN FARM A	SURFACE	SURF_SOIL	03-Jun-04	U-234		0.167	pCi/g	0.024	0.075	0.00442	**B199C7**		**0.162**	3.0	
SESPSPEC	B199D8	BASIN FARM B	SURFACE	SURF_SOIL	03-Jun-04	U-234		0.224	pCi/g	0.041	0.087	0.0128	**B199C7**		**0.162**	32	
SESPMNT	**B199C7**	**SAGEMOOR FARM**	**SURFACE**	**SURF_SOIL**	**03-Jun-04**	**U-235**	**U**	**0.00454**	**pCi/g**	**0.01**	**0.012**	**0.0178**					
SESPSPEC	B199D8	BASIN FARM B	SURFACE	SURF_SOIL	03-Jun-04	U-235		0.0109	pCi/g	0.0092	0.011	0.00472	**B199C7**	**U**	**0.00454**		
SESPSPEC	B199D7	BASIN FARM A	SURFACE	SURF_SOIL	03-Jun-04	U-235	U	0.0019	pCi/g	0.0031	0.0063	0.00212	**B199C7**	**U**	**0.00454**		
SESPMNT	**B199C7**	**SAGEMOOR FARM**	**SURFACE**	**SURF_SOIL**	**03-Jun-04**	**U-238**		**0.167**	**pCi/g**	**0.037**	**0.1**	**0.00521**					
SESPSPEC	B199D8	BASIN FARM B	SURFACE	SURF_SOIL	03-Jun-04	U-238		0.23	pCi/g	0.042	0.11	0.0209	**B199C7**		**0.167**	32	
SESPSPEC	B199D7	BASIN FARM A	SURFACE	SURF_SOIL	03-Jun-04	U-238		0.192	pCi/g	0.025	0.1	0.00212	**B199C7**		**0.167**	14	
SESPMNT	**B199J1**	**WYE BARRICADE**	**SURFACE**	**SURF_SOIL**	**07-Jun-04**	**Be-7**	**U**	**0.262**	**pCi/g**	**0.34**	**0.34**	**0.584**					
SESPSPEC	B199D5	600 H	SURFACE	SURF_SOIL	07-Jun-04	Be-7	U	-0.149	pCi/g	0.31	0.31	0.509	**B199J1**	**U**	**0.262**		

Table Q-7. Surface Soil Sample Duplicate Results, 2004

OWNER ID	SAMP NUM	SAMP SITE NAME	SAMP FROM	SAMP ITEM	SAMP DATE	CON SHORT NAME	LAB QUALIFIER	VALUE RPTD	ANAL UNITS RPTD	COUNTING ERROR	TOTAL ANAL ERROR	MIN DETECTABLE ACTIVITY	REPLICATE ID	LAB QUALIFIER	REPLICATE VALUE	RELATIVE % DIFFERENCE	RESULT COMMENT
SESPSPEC	B199D6	600 I	SURFACE	SURF_SOIL	07-Jun-04	Be-7	U	0.169	pCi/g	0.32	0.32	0.543	**B199J1**	**U**	**0.262**		
SESPMNT	**B199J1**	**WYE BARRICADE**	**SURFACE**	**SURF_SOIL**	**07-Jun-04**	**Co-60**	**U**	**0.00842**	**pCi/g**	**0.0098**	**0.0098**	**0.0175**					
SESPSPEC	B199D5	600 H	SURFACE	SURF_SOIL	07-Jun-04	Co-60	U	-0.00261	pCi/g	0.0089	0.0089	0.0151	**B199J1**	**U**	**0.00842**		
SESPSPEC	B199D6	600 I	SURFACE	SURF_SOIL	07-Jun-04	Co-60	U	0.00087	pCi/g	0.0081	0.0081	0.0143	**B199J1**	**U**	**0.00842**		
SESPMNT	**B199J1**	**WYE BARRICADE**	**SURFACE**	**SURF_SOIL**	**07-Jun-04**	**Cs-134**	**U**	**0.0313**	**pCi/g**	**0.016**	**0.016**	**0.0203**					
SESPSPEC	B199D5	600 H	SURFACE	SURF_SOIL	07-Jun-04	Cs-134	U	0.0276	pCi/g	0.011	0.011	0.0199	**B199J1**	**U**	**0.0313**		
SESPSPEC	B199D6	600 I	SURFACE	SURF_SOIL	07-Jun-04	Cs-134	U	0.049	pCi/g	0.018	0.018	0.0204	**B199J1**	**U**	**0.0313**		
SESPMNT	**B199J1**	**WYE BARRICADE**	**SURFACE**	**SURF_SOIL**	**07-Jun-04**	**Cs-137**		**0.0973**	**pCi/g**	**0.019**	**0.019**	**0.0143**					
SESPSPEC	B199D5	600 H	SURFACE	SURF_SOIL	07-Jun-04	Cs-137		0.0985	pCi/g	0.021	0.021	0.0141	**B199J1**		**0.0973**	1.2	
SESPSPEC	B199D6	600 I	SURFACE	SURF_SOIL	07-Jun-04	Cs-137		0.11	pCi/g	0.022	0.022	0.014	**B199J1**		**0.0973**	12	
SESPMNT	**B199J1**	**WYE BARRICADE**	**SURFACE**	**SURF_SOIL**	**07-Jun-04**	**Eu-152**	**U**	**-0.00528**	**pCi/g**	**0.03**	**0.03**	**0.037**					
SESPSPEC	B199D5	600 H	SURFACE	SURF_SOIL	07-Jun-04	Eu-152	U	-0.00505	pCi/g	0.019	0.019	0.0326	**B199J1**	**U**	**-0.00528**		
SESPSPEC	B199D6	600 I	SURFACE	SURF_SOIL	07-Jun-04	Eu-152	U	-0.0202	pCi/g	0.021	0.021	0.0333	**B199J1**	**U**	**-0.00528**		
SESPMNT	**B199J1**	**WYE BARRICADE**	**SURFACE**	**SURF_SOIL**	**07-Jun-04**	**Eu-154**	**U**	**-0.0272**	**pCi/g**	**0.034**	**0.034**	**0.056**					
SESPSPEC	B199D5	600 H	SURFACE	SURF_SOIL	07-Jun-04	Eu-154	U	0.00729	pCi/g	0.03	0.03	0.0517	**B199J1**	**U**	**-0.0272**		
SESPSPEC	B199D6	600 I	SURFACE	SURF_SOIL	07-Jun-04	Eu-154	U	0.0233	pCi/g	0.027	0.027	0.0485	**B199J1**	**U**	**-0.0272**		
SESPMNT	**B199J1**	**WYE BARRICADE**	**SURFACE**	**SURF_SOIL**	**07-Jun-04**	**Eu-155**	**U**	**0.0211**	**pCi/g**	**0.031**	**0.031**	**0.0508**					
SESPSPEC	B199D5	600 H	SURFACE	SURF_SOIL	07-Jun-04	Eu-155	U	0.04	pCi/g	0.026	0.026	0.0447	**B199J1**	**U**	**0.0211**		
SESPSPEC	B199D6	600 I	SURFACE	SURF_SOIL	07-Jun-04	Eu-155	U	0.0593	pCi/g	0.024	0.024	0.0396	**B199J1**	**U**	**0.0211**		
SESPMNT	**B199J1**	**WYE BARRICADE**	**SURFACE**	**SURF_SOIL**	**07-Jun-04**	**K-40**		**14.6**	**pCi/g**	**2**	**2**	**0.133**					
SESPSPEC	B199D5	600 H	SURFACE	SURF_SOIL	07-Jun-04	K-40		13.7	pCi/g	1.8	1.8	0.126	**B199J1**		**14.6**	6.4	
SESPSPEC	B199D6	600 I	SURFACE	SURF_SOIL	07-Jun-04	K-40		13.1	pCi/g	1.8	1.8	0.102	**B199J1**		**14.6**	11	
SESPMNT	**B199J1**	**WYE BARRICADE**	**SURFACE**	**SURF_SOIL**	**07-Jun-04**	**Pu-238**	**U**	**0.000313**	**pCi/g**	**0.00035**	**0.00035**	**0.000481**					
SESPSPEC	B199D5	600 H	SURFACE	SURF_SOIL	07-Jun-04	Pu-238	U		pCi/g				**B199J1**	**U**	**0.000313**		
SESPSPEC	B199D6	600 I	SURFACE	SURF_SOIL	07-Jun-04	Pu-238	U		pCi/g				**B199J1**	**U**	**0.000313**		
SESPMNT	**B199J1**	**WYE BARRICADE**	**SURFACE**	**SURF_SOIL**	**07-Jun-04**	**Pu-239/240**		**0.00583**	**pCi/g**	**0.0012**	**0.0015**	**0.000177**					
SESPSPEC	B199D5	600 H	SURFACE	SURF_SOIL	07-Jun-04	Pu-239/240	U		pCi/g				**B199J1**		**0.00583**		Tracer yields are less than the minimum 20% acceptance limit.
SESPSPEC	B199D6	600 I	SURFACE	SURF_SOIL	07-Jun-04	Pu-239/240	U		pCi/g				**B199J1**		**0.00583**		Tracer yields are less than the minimum 20% acceptance limit.
SESPMNT	**B199J1**	**WYE BARRICADE**	**SURFACE**	**SURF_SOIL**	**07-Jun-04**	**Ru-106**	**U**	**0.0362**	**pCi/g**	**0.083**	**0.083**	**0.144**					
SESPSPEC	B199D5	600 H	SURFACE	SURF_SOIL	07-Jun-04	Ru-106	U	-0.0102	pCi/g	0.08	0.08	0.136	**B199J1**	**U**	**0.0362**		
SESPSPEC	B199D6	600 I	SURFACE	SURF_SOIL	07-Jun-04	Ru-106	U	-0.024	pCi/g	0.08	0.08	0.136	**B199J1**	**U**	**0.0362**		
SESPMNT	**B199J1**	**WYE BARRICADE**	**SURFACE**	**SURF_SOIL**	**07-Jun-04**	**Sb-125**	**U**	**0.0212**	**pCi/g**	**0.023**	**0.023**	**0.0388**					
SESPSPEC	B199D5	600 H	SURFACE	SURF_SOIL	07-Jun-04	Sb-125	U	-0.00428	pCi/g	0.02	0.02	0.0339	**B199J1**	**U**	**0.0212**		
SESPSPEC	B199D6	600 I	SURFACE	SURF_SOIL	07-Jun-04	Sb-125	U	-0.0167	pCi/g	0.02	0.02	0.0327	**B199J1**	**U**	**0.0212**		
SESPMNT	**B199J1**	**WYE BARRICADE**	**SURFACE**	**SURF_SOIL**	**07-Jun-04**	**Sr-90**	**U**	**0.051**	**pCi/g**	**0.031**	**0.053**	**0.0546**					
SESPSPEC	B199D5	600 H	SURFACE	SURF_SOIL	07-Jun-04	Sr-90	U	0.05	pCi/g	0.035	0.056	0.0559	**B199J1**	**U**	**0.051**		
SESPSPEC	B199D6	600 I	SURFACE	SURF_SOIL	07-Jun-04	Sr-90	U	0.00587	pCi/g	0.029	0.052	0.0519	**B199J1**	**U**	**0.051**		
SESPMNT	**B199J1**	**WYE BARRICADE**	**SURFACE**	**SURF_SOIL**	**07-Jun-04**	**U-234**		**0.14**	**pCi/g**	**0.038**	**0.081**	**0.0065**					
SESPSPEC	B199D5	600 H	SURFACE	SURF_SOIL	07-Jun-04	U-234		0.143	pCi/g	0.034	0.08	0.00497	**B199J1**		**0.14**	2.1	
SESPSPEC	B199D6	600 I	SURFACE	SURF_SOIL	07-Jun-04	U-234		0.115	pCi/g	0.036	0.078	0.0181	**B199J1**		**0.14**	20	
SESPMNT	**B199J1**	**WYE BARRICADE**	**SURFACE**	**SURF_SOIL**	**07-Jun-04**	**U-235**	**U**	**0.00835**	**pCi/g**	**0.0096**	**0.011**	**0.0065**					
SESPSPEC	B199D5	600 H	SURFACE	SURF_SOIL	07-Jun-04	U-235	U	0.000577	pCi/g	0.0037	0.0066	0.00497	**B199J1**	**U**	**0.00835**		
SESPSPEC	B199D6	600 I	SURFACE	SURF_SOIL	07-Jun-04	U-235	U	0.011	pCi/g	0.011	0.012	0.00665	**B199J1**	**U**	**0.00835**		
SESPMNT	**B199J1**	**WYE BARRICADE**	**SURFACE**	**SURF_SOIL**	**07-Jun-04**	**U-238**		**0.123**	**pCi/g**	**0.037**	**0.1**	**0.0065**					
SESPSPEC	B199D5	600 H	SURFACE	SURF_SOIL	07-Jun-04	U-238		0.167	pCi/g	0.037	0.11	0.00497	**B199J1**		**0.123**	30	
SESPSPEC	B199D6	600 I	SURFACE	SURF_SOIL	07-Jun-04	U-238		0.146	pCi/g	0.041	0.11	0.0228	**B199J1**		**0.123**	17	