

**TABLE 3**  
**Area I Soil Data Results Summary - Metals and Radionuclides**

Parameter of Interest	Chemical	Result Unit	Total Count	Detect Count	Detect Frequency	Min. Detect <sup>a</sup>	Max. Detect <sup>a</sup>	Location of Max. Detect	Min. Non-Detect Limit	Max. Non-Detect Limit <sup>b</sup>	NDEP 2009 Worker BCL <sup>c</sup>	Basis	Count of Detects > NDEP Worker BCL <sup>c</sup>	LBCL (DAF = 1) <sup>e</sup>	Count of Detects > LBCL (1)	LBCL (DAF = 20) <sup>e</sup>	Count of Detects > LBCL (20)	Statistical Evaluation: Shallow Soils Above Bkgrd? <sup>d</sup>	Statistical Evaluation: Deep Soils Above Bkgrd? <sup>d</sup>
<b>Metals</b>	Aluminum	mg/kg	270	270	100%	613	31800	RSAK3-31B	0.2	10.6	100000	max	0	75	270	1500	268	no	yes
	Antimony	mg/kg	270	110	41%	0.07	24.9	SA56-0.5B	0.02	0.9	454	N	0	0.3	19	6	2	yes	yes
	Arsenic	mg/kg	270	270	100%	1.17	50.7	SA56-0.5B	0.03	0.5	1.77	C	257	10	118	20	40	yes	yes
	Barium	mg/kg	270	270	100%	23.8	6760	SA56-0.5B	0.04	2.7	100000	max	0	82	222	1640	3	no	no
	Beryllium	mg/kg	270	270	100%	0.056	1.85	RSAK3-31B	0.002	0.0251	2040	C	0	3	0	60	0	no	yes
	Boron	mg/kg	270	257	95%	1.2	551	RSAJ2-0.5B	0.2	2.1	100000	max	0	23.4	63	467	1	yes	yes
	Cadmium	mg/kg	270	169	63%	0.022	0.9	RSAL5-0.5B	0.005	0.07	553	N	0	0.4	5	8	0	yes	yes
	Chromium (Total)	mg/kg	270	270	100%	3.48	157	RSAJ2-0.5B	0.02	0.5	409	C	0	2	270	40	13	yes	yes
	Chromium (VI)	mg/kg	523	34	7%	0.16	15.4	RSAJ2-0.5B	0.1	0.35	409	C	0	2	4	40	0	yes	yes
	Cobalt	mg/kg	270	270	100%	0.9	47.3	SA56-0.5B	0.0249	0.3	331	N	0	33	1	660	0	no	no
	Copper	mg/kg	270	270	100%	5.7	78.4	SA56-0.5B	0.2	0.5	42200	N	0	35.2	8	704	0	no	no
	Iron	mg/kg	270	270	100%	3110	22200	SA48-35B	0.4	26.5	100000	max	0	7.56	270	151	270	yes	yes
	Lead	mg/kg	270	270	100%	2.2	425	SA56-0.5B	0.05	0.7	800	N	0	-	-	-	-	yes	yes
	Magnesium	mg/kg	270	267	99%	3970	240000	SA207-0.5B	0.2	10	100000	max	2	-	-	-	-	yes	yes
	Manganese	mg/kg	270	270	100%	48.1	61400	SA56-0.5B	0.01	0.53	13700	N	1	3.26	270	65.2	268	no	no
	Mercury	mg/kg	270	236	87%	0.002	0.176	RSAJ2-0.5B	0.001	0.00668	182	N	0	0.104	3	2.09	0	no	no
	Molybdenum	ug/kg	270	263	97%	0.15	82.2	SA56-0.5B	0.05	0.2	5680	N	0	3.64	4	72.7	1	yes	yes
	Nickel	mg/kg	270	270	100%	3.91	30.4	SA9-0.5	0.05	0.14	20100	N	0	7	261	140	0	no	no
	Platinum	mg/kg	270	109	40%	0.006	0.15	RSAJ2-0.5B	0.002	0.025	-	-	-	-	-	-	-	yes	yes
	Potassium	mg/kg	270	264	98%	962	12000	RSAJ2-0.5B	3.2	34	-	-	-	-	-	-	-	yes	yes
	Selenium	mg/kg	270	19	7%	0.8	1.5	RSAJ3-10B	0.1079	40	5680	N	0	0.3	19	6	0	yes	yes
	Silver	mg/kg	270	96	36%	0.019	7.6	SA201-10B	0.009	0.3	5680	N	0	2	3	40	0	yes	yes
	Sodium	mg/kg	270	263	97%	219	11800	SA207-10B	2.3	29.2	-	-	-	-	-	-	-	yes	yes
	Strontium	mg/kg	270	265	98%	31.6	4280	RSAH3-20B	0.01	2.65	100000	max	0	-	-	-	-	yes	no
	Thallium	mg/kg	270	262	97%	0.044	61.8	SA56-0.5B	0.002	0.0699	79.5	N	0	0.4	9	8	2	no	no
	Tin	mg/kg	270	270	100%	0.33	11.9	RSAK8-10B	0.0263	1.5	100000	max	0	-	-	-	-	yes	yes
	Titanium	mg/kg	270	270	100%	34	1270	SA166-0.5B	0.04	0.8	100000	max	0	150000	0	3000000	0	yes	yes
	Tungsten	mg/kg	270	265	98%	0.087	48.4	SA56-0.5B	0.005	0.09	8520	N	0	41.2	1	823	0	yes	yes
Uranium	mg/kg	270	269	100%	0.56	55.2	SA88-20B	0.004	0.021	3390	N	0	13.5	10	270	0	yes	yes	
Vanadium	mg/kg	270	270	100%	10.2	93.3	SA56-0.5B	0.2	2.4	5680	N	0	300	0	6000	0	yes	yes	
Zinc	mg/kg	270	270	100%	7.3	269	RSAL5-0.5B	0.2	0.52	100000	max	0	620	0	12400	0	no	yes	
<b>Radionuclides</b>	Radium-226	pCi/g	253	249	98%	0.203	11.1	RSAl7-30B	0.0436	0.383	0.023	C	249	0.016	249	0.32	246	no	yes
	Radium-228	pCi/g	253	244	96%	0.369	4.93	RSAl8-33B	0.172	1.18	0.041	C	244	0.016	244	0.32	244	no	no
	Thorium-228	pci/g	253	254	100%	0.142	2.84	SA82-0.5B	0.0382	1.27	0.025	C	254	0.0023	254	0.045	254	yes	no
	Thorium-230	pci/g	253	254	100%	0.33	14.8	RSAlO2-10B	0.0253	0.632	8.3	C	4	0.00084	254	0.017	254	no	yes
	Thorium-232	pci/g	253	254	100%	0.0746	2.63	RSAlK7-0.5B	0.0188	0.603	7.4	C	0	0.0029	254	0.058	254	-	-
	Uranium-234	pci/g	253	254	100%	0.363	14.3	RSAlI3-20B	0.00517	0.25	11	C	1	tbd	0	tbd	-	yes	yes
	Uranium-235	pci/g	253	241	95%	0.0287	0.793	SA88-20B	0.0055	0.353	0.35	C	11	tbd	0	tbd	-	yes	yes
Uranium-238	pci/g	253	254	100%	0.301	23	RSAN2-35B	0.00346	0.23	1.4	C	129	tbd	0	tbd	-	no	yes	

a - Range of detections include estimated values of detect results between the detection limit and reporting limit. As such some minimum detected concentrations may be below the minimum reporting limit. In these cases the respective sample results are flagged in the data set.

b - If the maximum non-detect limit is greater than the maximum detected value, then the maximum non-detect limit is used for comparison to the screening levels.

c - From User's Guide and Background Technical Document for Nevada Division of Environmental Protection (NDEP) Basic Comparison Levels (BCLs) for Human Health for the BMI Complex and Common Areas, Revision 3, June 2009. Values for the worker are the lower of the indoor and outdoor worker soil BCLs.

d - Based on results of statistical comparison tests performed between shallow and deep background and site datasets. Selection of final background data subsets pending discussion with NDEP (GISdI; Neptune and Company, 2007). Background depths evaluated for metals were 0-20 feet (shallow) and >20 feet (deep). Background depths for radionuclides were <10 feet (shallow) and >10 feet (deep).

C = Cancer

N = Noncancer

sat = soil saturation

max = risk-based value is greater than 100,000 mg/kg