APPENDIX H – MONITORING RESULTS FOR SOLID WASTE MANAGEMENT UNIT 112

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Table H-1. Solid Waste Management Unit 112 Summary of Resource Conservation and Recovery Act Action Limit Exceptions for Metals in April 1997 Groundwater Samples

Sample Type	Analyte	Number of Samples	Number of Detects	Analytical Concentration		Sample Mean	Action Level	Number Above Action Level
				Minimum	Maximum			
Well 36 Groundwater[d]	Lead	2	0	< 0.001	< 0.001	< 0.001	0.015	0
	Phosphorus	1	0	< MDL	< MDL	< MDL	0.00073	0
	Tin	2	0	< 0.002	< 0.002	< 0.002	0.002	0
Well 37 Groundwater[d]	Lead	4	0	< 0.001	< 0.001	< 0.001	0.015	0
	Phosphorus	2	0	< MDL	< MDL	< MDL	0.00073	0
	Tin	4	0	< 0.002	< 0.002	< 0.002	0.002	0
Well 38 Groundwater[d]	Lead	2	1	0.001	0.34	0.1705	0.015	1
	Phosphorus	1	0	< MDL	< MDL	< MDL	0.00073	0
	Tin	2	1	< 0.002	0.004	0.003	0.002	1

Adapted from: Tennessee Valley Authority. 1998. *TVA Environmental Research Center, RCRA Facility Investigation Final Report, EPA ID No. AL3-6i40-090-004.* Muscle Shoals, Ala.: Tennessee Valey Authority, Environmental Research Center, May 1998.

MDL = Method detection limit

Table H-2. Summary of Radionuclide Analytical Results

Well #	Parameter	Units	LLD[1]	PRG[2]	Result
36	Uranium (U) Total	pCi/L	0.7	0.5870	<0.7
36	Uranium (U) Total	μg/L	1.0		<1.0
36	Lead-210, LLD Total	pCi/L		0.0705	1.9
36	Polonium-210, LLD Total	pCi/L		0.1461	1.3
36	Potassium-40, activity Total	pCi/L		3.8095	1.4
36	Radon-222 Total	pCi/L			1790
36	TOTAL RADIUM ACTIVITY Total	pCi/L		0.1609	3.4
36	Gross alpha Total	pCi/L			4.2
36	Gross beta Total	pCi/L			2.4
37	Uranium (U) Total	pCi/L	0.7	0.5870	73.1
37	Uranium (U) Total	μg/L	1.0		106
37	Lead-210, LLD Total	pCi/L		0.0705	1.9
37	Polonium-210, LLD Total	pCi/L		0.1461	2.4
37	Potassium-40, activity Total	pCi/L		3.8095	51.0
37	Radon-222 Total	pCi/L			2130
37	TOTAL RADIUM ACTIVITY Total	pCi/L		0.1609	8.1
37	Gross alpha Total	pCi/L			37.0
37	Gross beta Total	pCi/L			104
37 DUP[3]	Uranium (U) Total	pCi/L	0.7	0.5870	77.5
37 DUP	Uranium (U) Total	μg/L	1.0		112
37 DUP	Lead-210, LLD Total	pCi/L		0.0705	1.9
37 DUP	Polonium-210, LLD Total	pCi/L		0.1461	2.1
37 DUP	Potassium-40, activity Total	pCi/L		3.8095	50.0
37 DUP	Radon-222 Total	pCi/L			2490
37 DUP	TOTAL RADIUM ACTIVITY Total	pCi/L		0.1609	8.5
37 DUP	Gross alpha Total	pCi/L			37.9
37 DUP	Gross beta Total	pCi/L			91.5
38	Uranium (U) Total	pCi/L	0.7	0.5870	2.1
38	Uranium (U) Total	μg/L	1.0		3.1
38	Lead-210 Total	pCi/L		0.0705	2.7
38	Polonium-210, LLD Total	pCi/L		0.1461	2.5
38	Potassium-40, activity Total	pCi/L		3.8095	26.0
38	Radon-222 Total	pCi/L			1060
38	TOTAL RADIUM ACTIVITY Total	pCi/L		0.1609	38.2
38	Gross alpha Total	pCi/L			1790
38	Gross beta Total	pCi/L			877

Adapted from: Tennessee Valley Authority. 1998. *TVA Environmental Research Center, RCRA Facility Investigation Final Report, EPA ID No. AL3-6i40-090-004.* Muscle Shoals, Ala.: Tennessee Valey Authority, Environmental Research Center, May 1998.

Abbreviations: μg/L = Micrograms per liter pCi/L = Pico-curies per liter

[1]LLD = Lower limit of detection

[2]PRG = Preliminary remedial goal

[3]Duplicate sample from Well 37