

BONNELL ALUMINUM, INC.

POST CLOSURE CARE PERMIT RENEWAL APPLICATION

MARCH 29, 2024

APPENDIX 4-I

HISTORICAL INFORMATION ON SWMUS

(Note: references are to the 2003 Permit Renewal Application)

TABLE L-5: DATA RELATED TO SOLID WASTE MANAGEMENT UNITS AND RELEASES

SWMU NO. OR RELEASE NO.	PERMIT APPLICATION SECTION	LOCATION OF LABORATORY RESULTS IN THIS APPLICATION
SWMU 1	None	Appendix L-1, Appendix L-13
SWMU 2 and Release 17	Section C Section E	Appendix L-2 Groundwater as referenced in Section E
SWMU 3	Section C (Sludge) Section E (Groundwater)	Appendix L-3 Groundwater as referenced in Section E
SWMU 4	Section C (Water & Sludge) Section E (Groundwater)	As referenced in Sections C & E
SWMU 5	This Number Not Used	
SWMU 6	Section C (Sludge/Soil) Section E (Groundwater)	Section C Sludge/Soil Appendix C-4 Groundwater as referenced in Section E
SWMU 7	Table L_5	Appendix L-4 Appendix L-13
SWMU 9	Page C_3	Pages C-4 to C-6
SWMU 10	Table L_6	Appendix L-5
SWMU 12	Method 8260, both liquid and sludge all BDL	Appendix L-6 Appendix L-13
SWMU 13	None	Appendix L-13
SWMU 14 and 15	Method 8260, all BDL	Appendix L-7 Appendix L-13
SWMU 15	None	Appendix L-13
SWMU 16 & 17	None	Appendix L-13
SWMU 18 and Release 3	None	Groundwater Appendix L-8 as referenced in Section E Surface water and sediments Appendix L-9, Appendix L-13
SWMU 19	None	Appendix L-13
SWMU 21 and Release 6	Table L-7 Appendix L-13	Appendix L-10
SWMU 23	Table L-8	Appendix L-8
SWMU 29 and Release 8	Table L-9	Appendix L-11 Appendix L-13
SWMU 37	None	Appendix L-13
SWMU 44	Table L-10	Appendix L-12 Appendix L-13
SWMU 45	None	Appendix L-13
SWMU 46 and Release 1	Table L-11	Appendix L-13
SWMU 50	None	Appendix L-14

TABLE L-6: SUMMARY OF WASTE SOLVENT ANALYTICAL RESULTS

DATE	PARAMETERS	RESULTS
APRIL 1990		
	Flash Point	<70 degrees F
	Tetrachloroethylene	327 ppm
	Toluene	380,000 ppm
	Xylenes	42,800 ppm
	All other Method 8260 constituents	BDL
JULY 1990		
	Total solids	19.80%
	Ethylbenzene	12.40%
	Toluene	16.60%
	Xylenes	52.80%
	All other Method 8260 constituents	BDL

TABLE L-7: SUMMARY OF ANALYTICAL RESULTS RELATED TO PAINTLINE WASTEWATER TREATMENT SYSTEM

LOCATION	PARAMETER	RESULTS
Monitoring Wells 26D and 26S	Total CR	BDL
	Dissolved Cr	BDL
Wastewater in Clarifier	Total Cr	0.6 to 1.9 ppm
	Hex Cr	BDL to 0.04 ppm

**TABLE L-8: SUMMARY OF SOIL AND WATER ANALYTICAL RESULTS
FROM OIL/WATER SEPARATOR AT FABRICATION
BUILDING**

PARAMETERS	RESULTS
SOIL	
Total Petroleum Hydrocarbons	BDL to 6,900 mg/kg
Ignitability	Pass
Corrosivity	Pass
Reactivity	Pass
Cadmimum EP Toxicity	0.01 mg/l
Chromium EP Toxicity	0.02 mg/l
Other Metals EP Toxicity	BDL
WATER DISCHARGED FROM SEPARATOR	
Method 8260	All BDL except 1,1,1-trichloroethane @7 ug/L
Metals	Barium, Chromium, Lead and Nickel at less than 1 mg/L

TABLE L-9: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS RELATED TO INACTIVE OIL/WATER SEPARATOR

LOCATION	PARAMETER	RESULTS
Well 28 (Upgradient)	PCE	18 - 22 ug/L
	All other Method 8260	BDL
Well 29 (Downgradient)	PCE	103 - 400 ug/L
	TCE	6 - 47ug/L
	All other Method 8260	BDL

TABLE L-10: SUMMARY OF ANALYTICAL RESULTS RELATED TO STEAM CLEANER

LOCATION	PARAMETER	RESULTS
Water Discharged From Steam Cleaner	Toluene	12 ug/L
	All other Method 8260	BDL
Surface Water Seep Below Steam Cleaner	Bromodichloromethane	14 ug/L
	Chloroform	144 ug/L
	All other Method 8260	BDL
Soil Near and Below Steam Cleaner (Composite)	TPH	990 ug/Kg
	Xylenes	97 ug/Kg
	All other Method 8260	BDL
Soil In Ditch Below Steam Cleaner (Composite)	TPH	70 ug/Kg
Method 8260	Xylenes	64 ug/Kg
	All other Method 8260	BDL

**TABLE L-11: SUMMARY OF ANALYTICAL RESULTS RELATED TO
CHROMIUM HYDROXIDE SANDBED CLOSURE STOCKPILE
AREA**

LOCATION	PARAMETER	RESULTS
Soil In Stockpile	Total Chromium	129-269 Mg/Kg
Soil Below Bottom Plastic Liner Below Stockpile	Total Chromium	25-53 Mg/Kg

**Table L-12: SUMMARY OF ANALYTICAL RESULTS RELATED TO
RELEASE FROM SOLVENT TANK FARM**

FIELD RESULTS		
Sample	Total Organic Vapors (ppm)	
Soil Gas	0 to 1900	
Soil	0 to <2000	

LABORATORY RESULTS (parts per billion)						
Soil Sample	PCE	TCE	Total Xylene	Toluene	Ethyl Benzene	Benzene
1	BDL	BDL	290	95	120	BDL
2	BDL	BDL	BDL	6	BDL	BDL
3	BDL	BDL	BDL	BDL	BDL	BDL
4	BDL	BDL	BDL	BDL	BDL	BDL
5	BDL	BDL	BDL	BDL	BDL	BDL
6	48	BDL	940	5,900	250	BDL
7	BDL	37	430,000	460,000	7,500	270