

APPENDIX 6

OMYA Verpol Plant
Tailings Settling Pond Composite Sampling
EPA Method 8260 Results

			EPA Region 3 RBC		SSL for groundwater		
Location	Parameter	Units	Residential ug/kg	Industrial ug/kg	DAF 1	DAF 20	6/25/2007
Tailings Settling	Acetone	mg/Kg	70,000	920,000	11	22	0.068
Pond Composite	Naphthalene	mg/Kg	1,600	20,000	0.0077	0.15	0.0026 (J) (B)

(B) = Analyte is found in the sample and the associated method blank.

(J) = Estimated value

RBC = EPA Region 3 Risk Based Concentration -April 2007

SSL = EPA Region 3 Soil Screening Level - April 2007

DAF 20 = Dilution Attenuation Factor to account for natural processes that reduce the concentration in the subsurface

DAF 1 = Dilution Attenuation Factor assuming no dilution or attenuation between the source and the receptor well

OMYA Verpol Plant
Tailings Settling Pond Composite Sampling
EPA Method 8270 Results

Location	Parameter	EPA Region 3 RBC		SSL for groundwater migration		Units	6/25/2007
		Residential	Industrial	DAF 1	DAF 20		
Tailings Settling Pond Composite	Benzoic Acid	310,000	4,100,000			mg/Kg	0.022 (J)
	Bis(2-ethylhexyl)phthalate	46	200	140	2900	mg/Kg	0.027 (J)
	Phenol	23,000	310,000	3	67	mg/Kg	0.022 (J)

(J) = Estimated Value

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DAF 20 = Dilution Attenuation Factor to account for natural processes that reduce the concentration in the subsurface

DAF 1 = Dilution Attenuation Factor assuming no dilution or attenuation between the source and the receptor well

**OMYA Verpol Plant
Tailings Settling Pond Composite Sampling
OMYA AG-24 Results**

	Laboratory		
Location	Parameter	Units	6/25/2007
Settling Pond Comp.	AG-24	mg/Kg	609

**OMYA Verpol Plant
Tailings Settling Pond Composite Sampling
Metals Results**

			EPA Region 3 RBC		SSL for groundwater migration		
Location	Parameter	Units	Residential	Industrial	DAF 1	DAF 20	6/25/2007
Tailings Settling Pond Composite	Silver	mg/Kg	390	5,100	1.6	3.1	ND < 0.33
	Aluminum	mg/Kg	78,000	1,000,000	--	--	2940*
	Antimony	mg/Kg	31	410	0.66	13	0.031 (B) (N)
	Arsenic	mg/Kg	0.43	1.9	0.0013	0.026	7.3
	Barium	mg/Kg	16,000	200,000	300	6,000	5.5 (B)
	Beryllium	mg/Kg	160	2,000	58	1,200	0.065 (B) (N)
	Boron	mg/Kg	16,000	200,000			2.0 (B) (N)
	Cadmium	mg/Kg	39	510	1.4	27	0.10 (B)
	Calcium	mg/Kg	--	--	--	--	231000
	Cobalt	mg/Kg	--	--			3.9 (B)
	Chromium	mg/Kg	120,000	1,500,000	9.9E+07	2E+09	4.3*
	Copper	mg/Kg	3,100	41,000	53	11,000	7.3*
	Lead	mg/Kg	--	--			1.7 (N)
	Iron	mg/Kg	55,000	720,000			8110
	Magnesium	mg/Kg	--	--			5010
	Mercury	mg/Kg	--	--			ND < 0.019
	Manganese	mg/Kg	1,600	20,000	48	950	25.4
	Selenium	mg/Kg	390	5,100	0.95	19	ND < 0.036
	Molybdenum	mg/Kg	390	5,100			1.4
	Nickel	mg/Kg	1,600	20,000			10.1
Thallium	mg/Kg	5.5	72	0.18	3.6	0.067 (B)	
Potassium	mg/Kg	--	--			1660	
Uranium	mg/Kg	16	200			ND < 61.9	
Zinc	mg/Kg	23,000	310,000	680	14,000	13.3 (E)	

(B) = The result reported is less than the reporting limit but greater than the instrument detection limit

(N) = Matrix spike sample recovery is not within control limits

(E) = Reported value is estimated due to the presence of interference

* = Duplicate sample analysis is not within control limits

RBC = EPA Region 3 Risk Based Concentration

SSL = EPA Region 3 Soil Screening Level

DAF 20 = Dilution Attenuation Factor to account for natural processes that reduce the concentration in the subsurface

DAF 1 = Dilution Attenuation Factor assuming no dilution or attenuation between the source and the receptor well