



**US Army Corps
of Engineers®**

**Department of the Army
Permit Number SAJ-2009-03221(SP-MEP)**

ATTACHMENT F

MITIGATION LEDGER

3 Pages



SAJ-2009-03221
DEPT. OF THE ARMY PERMIT
24-JAN-2018

Herbaceous Wetlands*				
Year**	UMAM Debit	UMAM Credit	Final Credit	5 Year Cumulative Credit Subtotals***
2017	6.17	9.53	3.36	
2018	9.64		-9.64	
2019	11.48		-11.48	
2020	7.30		-7.30	
2021	11.00	19.02	8.02	-17.04
2022	24.74		-24.74	
2023	25.52		-25.52	
2024	3.87		-3.87	
2025	2.76		-2.76	
2026	0.71		-0.71	-74.63
2027	2.46	8.46	6.00	
2028	14.45		-14.45	
2029	1.33	13.80	12.47	
2030		17.34	17.34	
2031		9.19	9.19	-44.09
2032		6.54	6.54	
2033		3.53	3.53	
2034		2.09	2.09	
2035		26.52	26.52	
2036		3.09	3.09	-2.32
2037		3.00	3.00	
2038			0.00	
2039			0.00	
2040			0.00	
2041			0.00	0.68
2042		2.95	2.95	
Total	121.43	125.06	3.63	

*UMAM is the functional assessment applied to measure wetland mitigation sufficiency.

**Other than Preservation and Enhancement, the impacts and restoration activities illustrated here occur on a rolling basis in accordance with the current mine plan based on initial prospecting data. Mine plans are subject to change as a result of natural variability in the ore body.

*** Mosaic provides financial assurances, in an amount determined appropriate by the Corps, to ensure a high level of confidence that the compensatory mitigation will be successfully completed in accordance with applicable performance standards [§332.2(n)]. The amount of financial assurance and the financial assurance mechanism will be updated annually.



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Forested Wetlands*				
Year**	UMAM Debit	UMAM Credit	Final Credit	5 Year Cumulative Credit Subtotals***
2017	4.47	63.33	58.86	
2018			0.00	
2019	3.33		-3.33	
2020	0.61		-0.61	
2021	0.37		-0.37	54.56
2022			0.00	
2023	0.93		-0.93	
2024	2.26		-2.26	
2025	18.06		-18.06	
2026	5.45		-5.45	27.86
2027	12.84		-12.84	
2028	21.29		-21.29	
2029	13.96		-13.96	
2030			0.00	
2031		7.99	7.99	-12.25
2032		5.44	5.44	
2033		18.42	18.42	
2034		3.19	3.19	
2035		4.33	4.33	
2036		0.77	0.77	19.90
2037			0.00	
2038			0.00	
2039			0.00	
2040			0.00	
2041			0.00	19.90
2042			0.00	
2043			0.00	
2044			0.00	
2045			0.00	
2046			0.00	19.90
2047			0.00	
2048			0.00	
2049			0.00	
Total	83.57	103.47	19.90	

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Streams*				
Year**	HA Debit	HA Credits	Final Credit	5 Year Cumulative Credit Subtotals***
2017		2122.52	2122.52	
2018		907.64	907.64	
2019	287.51		-287.51	
2020	1524.67		-1524.67	
2021			0.00	1217.98
2022			0.00	
2023			0.00	
2024			0.00	
2025	317.18		-317.18	
2026	1938.49		-1938.49	-1037.70
2027	842.77		-842.77	
2028			0.00	
2029			0.00	
2030			0.00	
2031			0.00	-1880.47
2032			0.00	
2033			0.00	
2034		959.41	959.41	
2035		553.55	553.55	
2036		828.62	828.62	461.11
Totals	4,910.63	5,371.75	461.11	

*FDEP's Stream and River Habitat Assessment Procedure (HA) is the functional assessment method applied to measure stream mitigation sufficiency.

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