

Permit Application # 30841316  
 Mine: Harvey Mine - Upper East Longwall A1-A3  
 Watershed: South Fork Tenmile

Date: November-2013  
 pre-mining  
 April-2016-August-2019  
 post-mining

Form 8.12A - Wetland Inventory

Wetland Number	Premining Wetland Size by Cowardin Classification			Post Mining Wetland Size by Cowardin Classification			Chapter 105 Classification	Primary Wetland Function										Anticipated Adverse Impact to Wetland	Type of Adverse Impact to Wetland	Mitigative Action		
	PEM	PSS	PFO	PEM	PSS	PFO		EV	Other	General Habitat	Study Area	Flood Storage	Discharge area	Recharge Area	Pollution Prevention	Recreation	Other				No	Yes
W-03	0.025			0.112			NO	YES	NO	NO	NO	YES	YES	NO	NO							
W-05	0.012	0.001		0	0		NO	YES	NO	YES	NO	YES	NO	NO	NO							
W-06	0.009			0.008	0.001		NO	YES	NO	YES	NO	YES	NO	NO	NO							
W-07	0.497			0.587			NO	YES	NO	YES	NO	YES	YES	NO	NO							
W-08	0.019			0.019			NO	YES	NO	YES	NO	YES	YES	NO	NO							
W-09	0.011			0.011			NO	YES	NO	NO	NO	YES	YES	NO	NO							
W-10	0.526			0.661			NO	YES	NO	NO	NO	YES	YES	NO	NO							
W-11	0.051			0.051			NO	YES	NO	NO	NO	YES	YES	NO	NO							
W-12	0.018			0.018			NO	YES	NO	NO	NO	NO	YES	NO	NO							
W-13	0.023			0.023			NO	YES	NO	NO	NO	NO	YES	NO	NO							
W-14	0.022			0.018		0.004	NO	YES	NO	NO	NO	NO	YES	NO	NO							
W-15	0.059			0.080			NO	YES	NO	NO	NO	NO	YES	YES	NO	NO						
W-16	0.041			0.041			NO	YES	NO	NO	YES	YES	YES	NO	NO							
W-17	0.010		0.002	0.053	0.006	0.003	NO	YES	NO	NO	NO	YES	NO	NO	NO							
W-19	0.004		0.001	0		0	NO	NO	NO	NO	NO	NO	NO	NO	NO							
W-20	0.181		0.121	0.116	0.019	0.058	NO	YES	NO	NO	NO	YES	YES	NO	NO							
W-21	0.073			0.066	0.007		NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-22	0.105	0.005		0.024	0.024	0.012	NO	YES	NO	NO	NO	YES	NO	NO	NO							
W-23	0.021	0.002		0.021	0.002		NO	YES	NO	NO	NO	YES	NO	NO	NO							
W-24	0.021			0.021			NO	YES	NO	NO	YES	NO	NO	NO	NO							
W-25	0.006			0.009			NO	YES	NO	NO	YES	YES	NO	NO	NO							
W-26	0.007			0.007			NO	YES	NO	NO	NO	NO	NO	NO	NO							
W-27	0.209	0.011		0.198		0.022	NO	YES	NO	YES	NO	YES	YES	NO	NO							
W-28*	0.022			0.022			NO	YES	NO	NO	NO	YES	NO	NO	NO							W-28,W-29 Combined
<b>Total</b>																						
	+ / - 0.001 acre			+ / - 0.001 acre																		

Notes: \* Post Mining delineations determined that these Pre-Mining Wetlands now have a combined acreage.

Permit Application # 30841316  
 Mine: Harvey Mine - Upper East Longwall A1-A3  
 Watershed: South Fork Tenmile

Date: November-2013  
 pre-mining  
 April-2016-August-2019  
 post-mining

Form 8.12A - Wetland Inventory

Wetland Number	Premining Wetland Size by Cowardin Classification			Post Mining Wetland Size by Cowardin Classification			Chapter 105 Classification		Primary Wetland Function										Anticipated Adverse Impact to Wetland	Type of Adverse Impact to Wetland	Mitigative Action		
	PEM	PSS	PFO	PEM	PSS	PFO	EV	Other	General Habitat	Study Area	Flood Storage	Discharge area	Recharge Area	Pollution Prevention	Recreation	Other	No	Yes	Dewatering	Inundation	Gate Cutting	Compensatory Replacement	
W-29*	0.075			0.057			NO	YES	NO	YES	NO	YES	NO	NO	NO								W-28,W-29 Combined
W-30	0.001			0.001			NO	YES	NO	NO	YES	YES	NO	NO	NO								
W-31	0.010			0.010			NO	YES	NO	NO	NO	YES	NO	NO	NO								
W-32	0.043	0.002		0.045			NO	YES	NO	YES	NO	YES	NO	NO	NO								
W-33	0.076			0.076			NO	YES	NO	YES	YES	YES	YES	NO	NO								
W-34	0.230	0.025		0.278			NO	YES	NO	YES	YES	YES	YES	NO	NO								
W-35	0.115			0.053			NO	YES	NO	YES	YES	YES	YES	NO	NO								
W-36	0.036	0.002		0.098			NO	YES	NO	YES	NO	YES	YES	NO	NO								
W-37	0.733		0.039	0.497		0.055	NO	YES	NO	YES	NO	YES	YES	NO	NO								
W-38*	0.074			1.004		0.039	NO	YES	NO	YES	NO	YES	YES	NO	NO								W-38,W-39,W-40 Combined
W-39*	0.089			0.089			NO	NO	NO	YES	NO	YES	YES	NO	NO								
W-40*	0.067		0.022	0.067		0.022	NO	YES	NO	YES	NO	YES	YES	NO	NO								
W-41	0.255			0.255			NO	YES	NO	YES	YES	YES	YES	NO	NO								
W-42	0.013			0.013			NO	YES	NO	NO	YES	YES	NO	NO	NO								
W-43*	0.060			0.060			NO	YES	NO	YES	YES	YES	NO	NO	NO								W-122,W-43 Combined
W-44*	0.068			0.068			NO	NO	NO	YES	NO	YES	NO	NO	NO								
W-45*	0.335	0.223		1.185	0.358	0.179	NO	YES	NO	YES	NO	YES	YES	NO	NO								W-45,W-44 Combined
W-46*	0.006			0.006			NO	YES	NO	YES	NO	YES	NO	NO	NO								W-50,W-46 Combined
W-47	0.037	0.002		0.039			NO	YES	NO	YES	YES	YES	NO	NO	NO								
W-48	0.015	0.001	0.001	0.024			NO	YES	NO	YES	NO	YES	NO	NO	NO								
W-49	0.011			0.017			NO	YES	NO	YES	NO	YES	YES	NO	NO								
W-50*	0.026	0.001		0.061	0.003		NO	YES	NO	YES	NO	YES	YES	NO	NO								W-50,W-46 Combined
W-51	0.574			0.287			NO	YES	NO	YES	YES	YES	YES	NO	NO								
W-52	0.009			0.060			NO	YES	NO	YES	YES	YES	NO	NO	NO								
<b>Total</b>																							
	+ / - 0.001 acre			+ / - 0.001 acre																			

Notes: \* Post Mining delineations determined that these Pre-Mining Wetlands now have a combined acreage.

Permit Application # 30841316  
 Mine: Harvey Mine - Upper East Longwall A1-A3  
 Watershed: South Fork Tenmile

Date: November-2013  
 pre-mining  
 April-2016-August-2019  
 post-mining

Form 8.12A - Wetland Inventory

Wetland Number	Premining Wetland Size by Cowardin Classification			Post Mining Wetland Size by Cowardin Classification			Chapter 105 Classification		Primary Wetland Function								Anticipated Adverse Impacts to Wetland		Type of Adverse Impacts to Wetland		Mitigative Action	
	PEM	PSS	PFO	PEM	PSS	PFO	EV	Other	General Habitat	Study Area	Flood Storage	Discharge area	Recharge Area	Pollution Prevention	Recreation	Other	No	Yes	Dewatering	Inundation		Gate Cutting
W-53	0.359		0.947			NO		YES	NO	YES	YES	YES	YES	NO	NO							
W-54*	0.114		0.576			NO		YES	NO	YES	NO	YES	YES	NO	NO							
W-55*	0.129		0.129			NO		YES	NO	YES	NO	YES	YES	NO	NO							
W-56	0.038		0.030			NO		YES	NO	YES	NO	YES	YES	NO	NO							
W-57	0.023		0.020			NO		YES	NO	YES	NO	YES	YES	NO	NO							
W-58	0.112		0.108			NO		YES	NO	YES	NO	YES	YES	NO	NO							
W-59	0.041		0.035			NO		YES	NO	YES	NO	YES	YES	NO	NO							
W-60	0.009		0.009			NO		YES	NO	YES	NO	YES	YES	NO	NO							
W-61	0.026		0.018			NO		YES	NO	YES	NO	YES	YES	NO	NO							
W-62	0.259	0.029	0.259	0.029		NO		YES	NO	YES	NO	YES	YES	NO	NO							
W-63	0.007		0.829	0.092		NO		YES	NO	YES	NO	YES	YES	NO	NO							
W-66	0.070		0.083	0.009		NO		YES	NO	YES	YES	YES	YES	NO	NO							
W-67	0.034		0.015			NO		YES	NO	NO	YES	YES	YES	NO	NO							
W-68	0.059		0.026			NO		YES	NO	NO	YES	YES	YES	NO	NO							
W-71	0.001		0.001			NO		YES	NO	NO	NO	YES	NO	NO	NO							
W-72	0.065		0.054	0.013		NO		YES	NO	YES	YES	YES	NO	NO	NO							
W-75	0.003		0.020			NO		YES	NO	NO	NO	YES	NO	NO	NO							
W-76	0.283		0.322			NO		YES	NO	YES	NO	YES	YES	NO	NO							
W-76Y	0.060		0.018			NO		NO	NO	YES	NO	YES	NO	NO	NO							
W-76Y1	0.031		0.031			NO		YES	NO	YES	NO	YES	NO	NO	NO							
W-77	0.245		0.245			NO		YES	NO	YES	YES	YES	YES	NO	NO							
W-78	0.406	0.101	1.211	0.242	0.161	NO		YES	NO	YES	NO	NO	YES	NO	NO							
W-84	0.034		0.013	0.001		NO		YES	NO	YES	NO	YES	YES	NO	NO							
W-85	0.018	0.001	0	0		NO		YES	NO	YES	NO	YES	YES	NO	NO							
<b>Total</b>																						
	+ / - 0.001 acre		+ / - 0.001 acre																			

W-54,W-55 Combined

Notes: \* Post Mining delineations determined that these Pre-Mining Wetlands now have a combined acreage.

Permit Application # 30841316  
 Mine: Harvey Mine - Upper East Longwall A1-A3  
 Watershed: South Fork Tenmile

Date: November-2013  
 pre-mining  
 April-2016-August-2019  
 post-mining

Form 8.12A - Wetland Inventory

Wetland Number	Premining Wetland Size by Cowardin Classification			Post Mining Wetland Size by Cowardin Classification			Chapter 105 Classification		Primary Wetland Function										Anticipated Adverse Impact to Wetland	Type of Adverse Impact to Wetland	Mitigative Action			
	PEM	PSS	PFO	PEM	PSS	PFO	EV	Other	General Habitat	Study Area	Flood Storage	Discharge area	Recharge Area	Pollution Prevention	Recreation	Other	No	Yes	Dewatering	Inundation	Gate Cutting	Compensatory Replacement		
W-86	0.163			0.146	0.019	0.029	NO	YES	NO	YES	NO	YES	YES	NO	NO									
W-87	0.040			0.014			NO	YES	NO	YES	NO	YES	YES	NO	NO									
W-88	0.091	0.010		0.086	0.015		NO	YES	NO	YES	YES	YES	YES	NO	NO									
W-89	0.012	0.001		0.106	0.005		NO	YES	NO	YES	NO	YES	YES	NO	NO									
W-90	0.005			0.013			NO	YES	NO	YES	NO	YES	YES	NO	NO									
W-91	0.065			0.081			NO	YES	NO	YES	NO	YES	YES	NO	NO									
W-92	0.025			0			NO	NO	NO	NO	NO	NO	NO	NO	NO									
W-93	0.029	0.001		0.047	0.012		NO	YES	NO	YES	NO	YES	YES	NO	NO									
W-94	0.015			0.058			NO	YES	NO	NO	NO	YES	NO	NO	NO									
W-95	0.002			0.007			NO	YES	NO	NO	NO	YES	NO	NO	NO									
W-96	0.010			0.010			NO	YES	NO	YES	YES	YES	YES	NO	NO									
W-97	0.088			0.088			NO	YES	NO	NO	YES	YES	YES	NO	NO									
W-98	0.080			0.118			NO	YES	NO	YES	YES	YES	YES	NO	NO									
W-99	0.125			0.137			NO	YES	NO	NO	YES	YES	YES	NO	NO									
W-100*	0.052			0.052			NO	YES	NO	YES	YES	YES	YES	NO	NO							W-101,W-100		
W-101*	0.092			0.216			NO	YES	NO	YES	YES	YES	YES	NO	NO							Combined		
W-102	0.001			0.001			NO	YES	NO	YES	YES	YES	YES	NO	NO									
W-103	0.064	0.003		0.159			NO	YES	NO	YES	YES	YES	YES	NO	NO									
W-104	0.001			0.006	0.001		NO	NO	NO	NO	NO	NO	NO	NO	NO									
W-105	0.003			0.003			NO	NO	NO	NO	NO	NO	NO	NO	NO									
W-106	0.171			0.163		0.008	NO	YES	NO	NO	NO	YES	YES	NO	NO									
W-107	0.098			0.098			NO	YES	NO	YES	NO	YES	YES	NO	NO									
W-108	0.023			0.041			NO	YES	NO	YES	YES	YES	YES	NO	NO									
W-109	0.018			0.018			NO	YES	NO	YES	YES	YES	NO	NO	NO									
<b>Total</b>																								
	+ / - 0.001 acre			+ / - 0.001 acre																				

Notes: \* Post Mining delineations determined that these Pre-Mining Wetlands now have a combined acreage.

Permit Application # 30841316  
 Mine: Harvey Mine - Upper East Longwall A1-A3  
 Watershed: South Fork Tenmile

Date: November-2013  
 pre-mining  
 April-2016-August-2019  
 post-mining

Form 8.12A - Wetland Inventory

Wetland Number	Premining Wetland Size by Cowardin Classification			Post Mining Wetland Size by Cowardin Classification			Chapter 105 Classification		Primary Wetland Function										Anticipated Adverse Impact to Wetland		Type of Adverse Impact to Wetland		Mitigative Action
	PEM	PSS	PFO	PEM	PSS	PFO	EV	Other	General Habitat	Study Area	Flood Storage	Discharge area	Recharge Area	Pollution Prevention	Recreation	Other	No	Yes	Dewatering	Inundation	Gate Cutting	Compensatory Replacement	
W-110	0.005			0.005			NO	YES	NO	NO	YES	YES	NO	NO	NO								
W-111	0.059		0.015	0.074			NO	YES	NO	YES	NO	YES	YES	NO	NO								
W-112	0.048	0.003		0.033	0.013	0.005	NO	YES	NO	YES	NO	YES	YES	NO	NO								
W-113*	0.023	0.006		0.023	0.006		NO	YES	NO	YES	NO	YES	YES	NO	NO							W-114,W-113 Combined	
W-114*	0.032	0.006		0.694	0.034	0.040	NO	YES	NO	YES	NO	YES	YES	NO	NO								
W-115	0.178			1.84			NO	YES	NO	NO	NO	YES	YES	NO	NO								
W-116	0.008			0.033			NO	YES	NO	NO	NO	NO	NO	NO	NO								
W-117	0.005			0.014	0.001	0.001	NO	YES	NO	NO	YES	YES	YES	NO	NO								
W-118	0.057	0.003		0.057		0.003	NO	YES	NO	NO	NO	YES	YES	NO	NO								
W-119	0.183	0.020		0.221	0.024		NO	YES	NO	YES	NO	YES	YES	NO	NO								
W-120	0.118			0.276			NO	YES	NO	YES	YES	YES	YES	NO	NO								
W-121	0.046	0.002		0.048			NO	YES	NO	NO	YES	YES	NO	NO	NO								
W-122*	0.757	0.042	0.042	1.594	0.207	0.207	NO	YES	NO	YES	NO	YES	YES	NO	NO							W-122,W-43 Combined	
W-123	0.122	0.014		0.171	0.049	0.024	NO	YES	NO	YES	NO	YES	YES	NO	NO								
W-129	0.047			0.064			NO	YES	NO	NO	YES	NO	NO	NO	NO								
W-129b	0.003			0.003			NO	YES	NO	NO	YES	NO	NO	NO	NO								
W-130	0.012			0.012			NO	YES	NO	NO	YES	NO	NO	NO	NO								
W-131	0.022			0.031	0.031	0.041	NO	YES	NO	NO	YES	NO	NO	NO	NO								
W-131b	0.014			0.014			NO	YES	NO	NO	YES	NO	NO	NO	NO								
W-131c	0.011			0.011			NO	YES	NO	NO	YES	NO	NO	NO	NO								
W-131d	0.011			0.010	0.001		NO	YES	NO	NO	YES	NO	NO	NO	NO								
W-132	0.024			0.024			NO	YES	NO	NO	YES	NO	NO	NO	NO								
W-132b	0.012			0.012			NO	YES	NO	NO	YES	NO	NO	NO	NO								
W-133	0.034			0.034			NO	YES	NO	NO	YES	NO	NO	NO	NO								
<b>Total</b>																							
	+ / - 0.001 acre			+ / - 0.001 acre																			

Notes: \* Post Mining delineations determined that these Pre-Mining Wetlands now have a combined acreage.

Permit Application # 30841316  
 Mine: Harvey Mine - Upper East Longwall A1-A3  
 Watershed: South Fork Tenmile

Date: November-2013  
 pre-mining  
 April-2016-August-2019  
 post-mining

Form 8.12A - Wetland Inventory

Wetland Number	Premining Wetland Size by Cowardin Classification			Post Mining Wetland Size by Cowardin Classification				Chapter 105 Classification										Anticipated Adverse Impact to Wetland		Type of Adverse Impact to Wetland		Mitigative Action
	PEM	PSS	PFO	PEM	PSS	PFO	EV	Other	General Habitat	Study Area	Flood Storage	Discharge area	Recharge Area	Pollution Prevention	Recreation	Other	No	Yes	Dewatering	Inundation	Gate Cutting	
W-134	0.024			0.031			NO	YES	NO	NO	YES	NO	NO	NO	NO							
W-155A	0.008	0.004		0.006	0.008		NO	YES	NO	YES	YES	NO	NO	NO	NO							
W-155A1	0.007			0.007			NO	YES	NO	YES	YES	NO	NO	NO	NO							
W-155A2	0.011	0.001	0.001	0.004	0.008	0.001	NO	YES	NO	YES	YES	NO	NO	NO	NO							
W-155A3	0.006	0.006		0.006	0.006		NO	YES	NO	YES	YES	NO	NO	NO	NO							
W-155B	0.070			0.04			NO	YES	NO	NO	YES	NO	NO	NO	NO							
W-156A	0.078	0.033		0.080	0.034		NO	YES	NO	NO	YES	NO	NO	NO	NO							
W-156A1	0.045			0.034	0.009		NO	YES	NO	NO	YES	NO	NO	NO	NO							
W-156B	0.007	0.001		0.043	0.006	0.008	NO	YES	NO	NO	YES	NO	NO	NO	NO							
W-157A	0.009			0.009			NO	YES	NO	YES	NO	YES	NO	NO	NO							
W-157B	0.128			0.152			NO	YES	NO	YES	NO	YES	NO	NO	NO							
W-157B1	0.049			0.052			NO	YES	NO	YES	NO	YES	NO	NO	NO							
W-158B	0.085	0.005		0.098			NO	YES	NO	NO	NO	NO	NO	NO	NO							
W-159B	0.050			0.045			NO	YES	NO	YES	YES	YES	NO	NO	NO							
W-159B1	0.024			0			NO	YES	NO	YES	YES	YES	NO	NO	NO							
W-159B2	0.034			0.048			NO	YES	NO	YES	YES	YES	NO	NO	NO							
W-160A	0.014	0.005	0.001	0.017	0.014	0.003	NO	YES	NO	YES	YES	YES	NO	NO	NO							
W-161B	0.026	0.001		0.037			NO	YES	NO	YES	NO	YES	NO	NO	NO							
7N2_W1	0.013			0.010	0.003		NO	YES	NO	YES	YES	NO	YES	NO	NO							
RS-6	0.101	0.005		0.101	0.005		NO	YES	NO	NO	NO	NO	YES	NO	NO							
AS-1*	0.080	0.004		0.087	0.029		NO	YES	NO	YES	NO	NO	NO	NO	NO							
AS-2*	0.036	0.002		0.036	0.002		NO	YES	NO	YES	NO	NO	NO	NO	NO							
W01ABK041619				0.028		0.001	NO	YES	NO	YES	NO	NO	NO	NO	NO							
W01SHD041619				0.197			NO	YES	NO	YES	NO	NO	NO	NO	NO							
<b>Total</b>																						
	+ / - 0.001 acre			+ / - 0.001 acre																		

Notes: \* Post Mining delineations determined that these Pre-Mining Wetlands now have a combined acreage.

AS-1,AS-2 Combined

Permit Application # 30841316  
 Mine: Harvey Mine - Upper East Longwall A1-A3  
 Watershed: South Fork Tenmile

Date: November-2013  
pre-mining  
April-2016-August-2019  
post-mining

Form 8.12A - Wetland Inventory

Wetland Number	Premining Wetland Size by Cowardin Classification			Post Mining Wetland Size by Cowardin Classification				Chapter 105 Classification					Primary Wetland Function					Anticipated Adverse Impact to Wetland		Type of Adverse Impact to Wetland		Mitigative Action					
	PEM	PSS	PFO	PEM	PSS	PFO	EV	Other	General Habitat	Study Area	Flood Storage	Discharge area	Recharge Area	Pollution Prevention	Recreation	Other	No	Yes	Dewatering	Inundation	Gate Cutting		Compensatory Replacement				
1-BC-W03	0.001	0.001		0	0			NO	YES	NO	YES	YES	YES	NO	NO	NO											
1-BC-W04	0.127	0.007		0.113				NO	YES	NO	YES	YES	YES	NO	NO	NO											
1-BC-W05	0.019			0.019				NO	YES	NO	YES	YES	YES	NO	NO	NO											
1-BC-W06	0.038			0.033				NO	YES	NO	NO	YES	YES	YES	NO	NO											
1-BC-W08	0.012	0.001		0.008	0.005			NO	YES	NO	NO	YES	YES	NO	NO	NO											
1-BC-W09*	0.193	0.011	0.011	0.209	0.130			NO	YES	NO	YES	YES	YES	YES	NO	NO							1-BC-W09,2-BC-W13				
2-BC-W13*	0.128	0.014		0.128	0.014			NO	YES	NO	YES	YES	YES	NO	NO	NO							Combined				
2-BC-W14	0.034			0.111	0.047			NO	YES	NO	NO	YES	YES	YES	NO	NO											
2-BC-W15	0.038			0.030				NO	YES	NO	NO	YES	YES	YES	NO	NO											
1-EF-W01	0.052			0.052				NO	YES	NO	YES	YES	NO	NO	NO	NO											
1-EF-W01A*	0.131			0.131				NO	YES	NO	YES	YES	NO	NO	NO	NO							1-EF-W02,1-EF-W01A				
1-EF-W02*	0.087			0.472	0.032			NO	YES	NO	YES	YES	YES	NO	NO	NO							Combined				
1-EF-W04	0.023	0.003		0.011	0.015			NO	YES	NO	NO	YES	NO	NO	NO	NO											
1-EF-W04A	0.006	0.002		0.003	0.011			NO	YES	NO	NO	YES	NO	NO	NO	NO											
1-EF-W05	0.042			0.046	0.011			NO	YES	NO	YES	YES	YES	NO	NO	NO											
1-EF-W06	0.028		0.001	0.024		0.006		NO	YES	NO	NO	YES	YES	NO	NO	NO											
1-EF-W07	0.089	0.005	0.011	0.051	0.077			NO	YES	NO	YES	YES	YES	NO	NO	NO											
1-EF-W08	0.215		0.011	0.263				NO	YES	NO	YES	YES	YES	NO	NO	NO											
1-EF-W09	0.170			0.321				NO	YES	NO	YES	YES	NO	YES	NO	NO											
1-EF-W10	0.058		0.003	0.027		0.040		NO	YES	NO	YES	YES	YES	NO	NO	NO											
1-EF-W11	0.012			0.042				NO	YES	NO	YES	NO	YES	NO	NO	NO											
1-EF-W12	0.265			0.296		0.016		NO	YES	NO	YES	NO	YES	NO	NO	NO											
1-EF-W13	0.114		0.006	0.114		0.006		NO	YES	NO	YES	YES	YES	YES	NO	NO											
1-EF-W13A	0.177		0.020	0.187	0.010			NO	YES	NO	YES	YES	YES	YES	NO	NO											
<b>Total</b>																											
	+ / - 0.001 acre			+ / - 0.001 acre																							

Notes: \* Post Mining delineations determined that these Pre-Mining Wetlands now have a combined acreage.

Permit Application # 30841316  
 Mine: Harvey Mine - Upper East Longwall A1-A3  
 Watershed: South Fork Tenmile

Date: November-2013  
 pre-mining  
 April-2016-August-2019  
 post-mining

Form 8.12A - Wetland Inventory

Wetland Number	Premining Wetland Size by Cowardin Classification			Post Mining Wetland Size by Cowardin Classification				Chapter 105 Classification										Anticipated Adverse Impact to Wetland		Type of Adverse Impact to Wetland		Mitigative Action	
	PEM	PSS	PFO	PEM	PSS	PFO	EV	Other	General Habitat	Study Area	Flood Storage	Discharge area	Recharge Area	Pollution Prevention	Recreation	Other	No	Yes	Dewatering	Inundation	Gate Cutting		Compensatory Replacement
1-EF-W13B	0.033			0.033			NO	YES	NO	NO	YES	YES	YES	NO	NO								
1-EF-W14*	0.034			0.065			NO	YES	NO	YES	YES	YES	NO	NO	NO								1-EF-W14, 1-EF-W14A Combined
1-EF-W14A*	0.016			0.016			NO	YES	NO	NO	YES	YES	NO	NO	NO								
1-EF-W16	0.018			0.010	0.001		NO	YES	NO	NO	NO	YES	NO	NO	NO								
1-EF-W16A	0.013			0.013			NO	YES	NO	NO	YES	NO	NO	NO	NO								
1-EF-W17	0.055			0.055			NO	YES	NO	NO	YES	YES	NO	NO	NO								
1-EF-W18	0.060			0.060			NO	YES	NO	NO	YES	YES	YES	NO	NO								
1-EF-W18A	0.027			0.027			NO	YES	NO	YES	YES	YES	YES	NO	NO								
2-EF-W01	0.011			0.011			NO	YES	NO	YES	YES	YES	NO	NO	NO								
2-EF-W02	0.066			0.066			NO	YES	NO	YES	NO	YES	NO	NO	NO								
2-EF-W02A	0.030			0.030			NO	YES	NO	YES	NO	YES	NO	NO	NO								
2-EF-W03	0.029			0.029			NO	YES	NO	YES	NO	YES	NO	NO	NO								
2-EF-W04	0.134	0.023	0.068	0.158		0.067	NO	YES	NO	NO	YES	YES	NO	NO	NO								
2-EF-W05	0.021	0.001		0.022			NO	YES	NO	YES	NO	YES	NO	NO	NO								
2-EF-W07	0.072			0.072			NO	YES	NO	NO	YES	YES	NO	NO	NO								
2-EF-W08	0.009			0.009			NO	YES	NO	NO	YES	YES	NO	NO	NO								
2-EF-W09*	0.015		0.001	0.019			NO	YES	NO	NO	YES	YES	NO	NO	NO								2-EF-W09,2-EF-W09A Combined
2-EF-W09A*	0.040			0.040			NO	YES	NO	NO	YES	YES	NO	NO	NO								
2-EF-W10	0.157			0.157			NO	YES	NO	NO	YES	YES	NO	NO	NO								
2-EF-W11	0.098			0.098			NO	YES	NO	NO	YES	YES	NO	NO	NO								
2-EF-W11A	0.007			0.007			NO	YES	NO	NO	NO	YES	NO	NO	NO								
2-EF-W12	0.143			0.143			NO	YES	NO	NO	YES	YES	NO	NO	NO								
2-EF-W13	0.263			0.263			NO	YES	NO	NO	YES	YES	YES	NO	NO								
1-PC-W1	0.073	0.004		0.069	0.004	0.004	NO	YES	NO	YES	YES	YES	NO	NO	NO								
<b>Total</b>																							
	+ / - 0.001 acre			+ / - 0.001 acre																			

Notes: \* Post Mining delineations determined that these Pre-Mining Wetlands now have a combined acreage.



Permit Application # 30841316

Mine: Harvey Mine - Upper East Longwall A1-A3

Watershed: South Fork Tenmile

Date: November-2013

pre-mining

April-2016-August-2019

post-mining

Form 8.12A - Wetland Inventory

Wetland Number	Premining Wetland Size by Cowardin Classification			Post Mining Wetland Size by Cowardin Classification			Chapter 105 Classification										Anticipated Adverse Impact to Wetland		Type of Adverse Impact to Wetland		Mitigative Action	
	PEM	PSS	PFO	PEM	PSS	PFO	EV	Other	General Habitat	Study Area	Flood Storage	Discharge area	Recharge Area	Pollution Prevention	Recreation	Other	No	Yes	Dewatering	Inundation		Gate Cutting
1-PC-W2	0.162			0.162			NO	YES	NO	YES	YES	YES	NO	NO	NO							
1-PC-W2A	0.021			0.021			NO	YES	NO	YES	YES	YES	NO	NO	NO							
1-PC-W3	0.029			0.029			NO	YES	NO	YES	YES	YES	NO	NO	NO							
1-PC-W4	0.184	0.010		0.194			NO	YES	NO	YES	YES	YES	NO	NO	NO							
1-PC-W5	0.230			0.230			NO	YES	NO	YES	YES	YES	NO	NO	NO							
1-PC-W6*	0.634	0.013		0.731			NO	YES	NO	YES	YES	NO	NO	NO	NO							
1-PC-W7*	0.591			0.591			NO	YES	NO	YES	YES	YES	NO	NO	NO							1-PC-W6, 1-PC-W7, 1-PC-W7A Combined
1-PC-W7A*	0.030			0.030			NO	YES	NO	YES	YES	YES	NO	NO	NO							
1-PC-W8	0.661	0.037	0.037	0.812			NO	YES	NO	YES	YES	YES	NO	NO	NO							
1-PC-W8A	0.027	0.001	0.001	0.014			NO	YES	NO	YES	NO	NO	NO	NO	NO							
1-PC-W9	0.016			0.002			NO	YES	NO	NO	YES	YES	NO	NO	NO							
1-PC-W9A	0.008			0.008			NO	YES	NO	NO	YES	YES	NO	NO	NO							
1-PC-W10	0.034	0.002		0.002			NO	YES	NO	YES	YES	YES	NO	NO	NO							
1-PC-W10A	0.003	0.001		0.001			NO	YES	NO	YES	YES	YES	NO	NO	NO							
1-PC-W11	0.005			0.005			NO	YES	NO	YES	NO	YES	NO	NO	NO							
1-PC-W12	0.099			0.099			NO	YES	NO	YES	YES	YES	NO	NO	NO							
1-PC-W12A	0.030			0.026	0.003	0.001	NO	YES	NO	YES	YES	YES	NO	NO	NO							
1-PC-W13	0.047	0.002		0.049			NO	YES	NO	YES	YES	YES	NO	NO	NO							
1-PC-W14	0.005			0.005			NO	YES	NO	YES	YES	YES	NO	NO	NO							
1-PC-W15	0.012	0.001		0.011	0.001	0.001	NO	YES	NO	YES	NO	YES	NO	NO	NO							
1-PC-W16*	0.112	0.012		0.094	0.042		NO	YES	NO	YES	YES	YES	NO	NO	NO							1-PC-W16, 1-PC-W16A Combined
1-PC-W16A*	0.006	0.001		0.006	0.001		NO	YES	NO	YES	YES	YES	NO	NO	NO							
1-PC-W17	0.005	0.001		0.006			NO	YES	NO	YES	NO	YES	NO	NO	NO							
1-PC-W18	0.254	0.045		0.290			NO	YES	NO	YES	YES	YES	NO	NO	NO							
<b>Total</b>																						
	+ / - 0.001 acre			+ / - 0.001 acre																		

Notes: \* Post Mining delineations determined that these Pre-Mining Wetlands now have a combined acreage.

Permit Application # 30841316  
 Mine: Harvey Mine - Upper East Longwall A1-A3  
 Watershed: South Fork Tenmile

Date: November-2013  
 pre-mining  
 April-2016-August-2019  
 post-mining

Form 8.12A - Wetland Inventory

Wetland Number	Premining Wetland Size by Cowardin Classification			Post Mining Wetland Size by Cowardin Classification				Chapter 105 Classification							Anticipated Adverse Impact to Wetland		Type of Adverse Impact to Wetland		Mitigative Action				
	PEM	PSS	PFO	PEM	PSS	PFO	EV	Other	General Habitat	Study Area	Flood Storage	Discharge area	Recharge Area	Pollution Prevention	Recreation	Other	No	Yes		Dewatering	Inundation	Gate Cutting	Compensatory Replacement
1-PC-W19*	0.022	0.006		0.026	0.002			NO	YES	NO	NO	YES	YES	NO	NO	NO							1-PC-W19,1-PC-W19A Combined
1-PC-W19A*	0.001	0.001		0.001	0.001			NO	NO	NO	NO	NO	NO	NO	NO	NO							
1-PC-W20	0.029	0.003		0.029	0.003			NO	YES	NO	YES	YES	YES	NO	NO	NO							
1-PC-W21	0.134	0.007		0.141				NO	YES	NO	YES	YES	YES	NO	NO	NO							
1-PC-W22	0.125	0.007		0.106		0.026		NO	YES	NO	YES	YES	YES	NO	NO	NO							
1-PC-W23	0.004			0.004				NO	YES	NO	NO	YES	YES	NO	NO	NO							
1-PC-W24	0.005			0.005				NO	YES	NO	YES	YES	YES	NO	NO	NO							
1-PC-W24A	0.001			0.001				NO	YES	NO	YES	YES	YES	NO	NO	NO							
1-PC-W24B	0.035			0.035				NO	YES	NO	YES	YES	YES	NO	NO	NO							
1-PC-W25	0.056	0.003	0.003	0.062				NO	YES	NO	NO	YES	YES	NO	NO	NO							
1-PC-W26	0.010			0.025				NO	NO	NO	NO	NO	NO	NO	NO	NO							
1-PC-W27	0.028			0.028				NO	YES	NO	YES	YES	YES	NO	NO	NO							
1-PC-W28	0.009	0.001		0.009	0.001			NO	YES	NO	YES	YES	YES	NO	NO	NO							
1-PC-W29	0.017			0.013	0.001	0.003		NO	YES	NO	YES	YES	YES	NO	NO	NO							
1-PC-W30	0.018	0.002	0.001	0.019	0.002			NO	YES	NO	NO	NO	YES	NO	NO	NO							
1-PC-W31	0.023	0.003		0.025	0.001			NO	YES	NO	YES	YES	YES	NO	NO	NO							
2-PC-W01	0.027			0.027				NO	YES	NO	YES	YES	YES	NO	NO	NO							
2-PC-W02	0.117	0.006		0.053				NO	YES	NO	YES	YES	YES	YES	NO	NO							
2-PC-W03	0.006		0.001	0.006		0.001		NO	YES	NO	NO	YES	NO	NO	NO	NO							
2-PC-W04	0.041	0.002	0.002	0.043		0.002		NO	YES	NO	YES	YES	YES	NO	NO	NO							
2-PC-W05	0.038		0.004	0.038		0.004		NO	YES	NO	YES	YES	YES	NO	NO	NO							
2-PC-W06	0.036			0.045				NO	YES	NO	YES	YES	YES	NO	NO	NO							
2-PC-W09	0.018			0.018				NO	YES	NO	NO	YES	YES	YES	NO	NO							
2-PC-W10	0.091			0.091				NO	YES	NO	YES	YES	YES	YES	NO	NO							
<b>Total</b>																							
	+ / - 0.001 acre			+ / - 0.001 acre																			

Notes: \* Post Mining delineations determined that these Pre-Mining Wetlands now have a combined acreage.

Permit Application # 30841316  
 Mine: Harvey Mine - Upper East Longwall A1-A3  
 Watershed: South Fork Tenmile

Date: November-2013  
 pre-mining  
 April-2016-August-2019  
 post-mining

Form 8.12A - Wetland Inventory

Wetland Number	Premining Wetland Size by Cowardin Classification			Post Mining Wetland Size by Cowardin Classification				Chapter 105 Classification							Primary Wetland Function			Anticipated Adverse Impact to Wetland		Type of Adverse Impact to Wetland		Mitigative Action
	PEM	PSS	PFO	PEM	PSS	PFO	EV	Other	General Habitat	Study Area	Flood Storage	Discharge area	Recharge Area	Pollution Prevention	Recreation	Other	No	Yes	Dewatering	Inundation	Gate Cutting	
2-PC-W11	0.085		0.004	0.053		0.036	NO		YES	NO	YES	YES	YES	YES	NO	NO						
2-PC-W12	0.043		0.005	0.029	0.019		NO		YES	NO	YES	YES	YES	YES	NO	NO						
2-PC-W13	0.134			0.134			NO		YES	NO	YES	YES	YES	YES	NO	NO						
2-PC-W14	0.016			0.016			NO		YES	NO	YES	YES	YES	YES	NO	NO						
4-PC-W01	0.052	0.006		0.025		0.003	NO		YES	NO	NO	NO	YES	NO	NO	NO						
4-PC-W02	0.067	0.004		0.067	0.004		NO		YES	NO	YES	YES	YES	NO	NO	NO						
4-PC-W03	0.121	0.035	0.017	0.171		0.019	NO		YES	NO	NO	YES	YES	NO	NO	NO						
4-PC-W04	0.038			0.038			NO		YES	NO	YES	YES	YES	NO	NO	NO						
4-PC-W04A	0.026			0.026			NO		YES	NO	NO	YES	NO	YES	NO	NO						
5-PC-W01	0.008	0.001		0.008	0.001		NO		YES	NO	YES	YES	YES	NO	NO	NO						
5-PC-W02	0.008	0.001	0.001	0.009	0.001		NO		YES	NO	YES	YES	YES	NO	NO	NO						
W01DAM42216				0.018			NO		YES	NO	YES	YES	YES	NO	NO	NO						
W01DAM52416				0.137			NO		YES	NO	YES	YES	YES	NO	NO	NO						
W02DAM52416				0.053			NO		YES	NO	YES	YES	YES	NO	NO	NO						
W03DAM52416				0.038			NO		YES	NO	YES	YES	YES	NO	NO	NO						
W01DAM6616				0.016			NO		YES	NO	YES	YES	YES	NO	NO	NO						
W01DAM6716				0.024			NO		YES	NO	YES	YES	YES	NO	NO	NO						
W02DAM6716				0.027			NO		YES	NO	YES	YES	YES	NO	NO	NO						
W01DAM92017				0.008			NO		NO	NO	NO	YES	NO	NO	NO	NO						
W02DAM92017				0.031			NO		NO	NO	NO	YES	NO	NO	NO	NO						
W03DAM92017				0.044			NO		YES	NO	NO	YES	NO	NO	NO	NO						
W04DAM92017				0.270			NO		YES	NO	YES	NO	NO	YES	NO	NO						
W05DAM92017				0.493			NO		YES	NO	YES	NO	NO	YES	NO	NO						
W01DAM92517				0.012			NO		NO	NO	NO	NO	NO	NO	NO	NO						
<b>Total</b>								Notes:														
	+ / - 0.001 acre			+ / - 0.001 acre																		

