

FORM 8.12A - WETLAND INVENTORY

Operator: Tunnel Ridge, LLC
 Operation Name: Tunnel Ridge Mine
 Permit No.: 63091301
 Watershed: Ohio River-Middle Wheeling Creek

Date: 10/20/2016
Pre-mining
 Date: 6/12/2020
Post-mining

Wetland Number	Premining Wetland Size by Cowardin Classification			Postmining Wetland Size by Cowardin Classification			Chapter 105 Classification		Primary Wetland Function							Anticipated Adverse Impact to Wetland		Type of Adverse Impact to Wetland		Mitigation Action	
	PEM	PSS	PFO	PEM	PSS	PFO	EV	Other	General Habitat	Study Area	Flood Storage	Discharge Area	Recharge Area	Pollution Prevention	Other	No	Yes	Dewatering	Inundation	Gate Cutting	Compensatory Replacement
34	0.010			---				X	X						X						
37	0.058			---				X		X	X				X						
38	0.044			---				X	X						X						
40	0.343			---				X	X						X						
41	0.625			---				X	X	X					X						
42	0.039			---				X		X		X			X						
76	0.366			---				X	X						X						
77	0.017			---				X	X						X						
78	0.014			---				X	X					X	X						
79	0.151			---				X	X					X	X						
80	0.054			---				X	X						X						
81	0.018			---				X	X			X	X		X						
82	0.034			---				X	X			X	X		X						
87*	0.037			0.056				X			X	X		X	X						
88*	0.031			0.000																	
89*	0.034			0.004				X			X			X	X						
90*	0.047			0.022				X			X			X	X						
91*	0.060			0.060				X			X	X		X	X						
92*	0.016			0.568				X	X	X	X	X	X	X	X						
93*	0.026			0 ⁽¹⁾																	

Notes: --- Wetland not checked at time of June 2020 renewal (i.e. not undermined or still within 12 month window of undermining).
 * - Wetland checked post-mining prior to June 2020 renewal.
 0⁽¹⁾ - Wetlands 93 and 100 combined with Wetland 92; See Wetland 92 for acreage.

(Attach Field Data Sheets to Form)

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	PEM	PSS	PFO	PEM	PSS	PFO	EV	Other	General Habitat	Study Area	Flood Storage	Discharge Area	Recharge Area	Pollution Prevention	Other	No	Yes	Dewatering	Inundation	Gate Cutting	Compensatory Replacement
94*	0.017			0.012				X			X				X						
95*	0.056			0.024				X				X			X						
96*	0.020			0.033				X	X	X	X			X		X					
97*	0.112			0 ⁽²⁾																	
98*	0.024			0.027				X			X			X	X	X					
99*	0.110			0.123				X	X	X	X			X	X	X					
100*	0.088			0 ⁽¹⁾																	
101*	0.047			0.074				X	X	X		X	X	X	X	X					
102*	0.068			0.073				X	X	X	X	X	X	X	X	X					
103*	0.009			0.007				X				X				X					
104*	0.022			0.038				X			X			X		X					
105*	0.016			0.019				X			X				X	X					
106*	0.010			0.003				X			X				X	X					
107*	0.764			0.764				X	X	X	X	X	X	X	X	X					
108*	0.046			0.048				X			X			X		X					
109*	0.056			0.056				X				X			X	X					
110*	0.068			0.073				X		X	X	X	X	X	X	X					
111*	0.035			0.035				X				X			X	X					
112*	0.069			0.069				X	X		X				X	X					
115	0.035			---				X		X		X	X	X	X	X					

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0⁽¹⁾ - Wetlands 93 and 100 combined with Wetland 92; See Wetland 92 for acreage.

0⁽²⁾ - Pond embankment fixed by property owner; Wetland no longer present; Not Mining Related.

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	PEM	PSS	PFO	PEM	PSS	PFO	EV	Other	General Habitat	Study Area	Flood Storage	Discharge Area	Recharge Area	Pollution Prevention	Other	No	Yes	Dewatering	Inundation	Gate Cutting	Compensatory Replacement
116	0.053			---				X	X	X	X	X	X	X	X						
117	0.015			---				X				X	X	X		X					
118	0.093			---				X		X	X	X	X	X		X					
119	0.016			---				X			X	X	X	X		X					
120	0.016			---				X			X	X				X					
121	0.076			---				X			X	X				X					
122	0.114			---				X							X	X					
123	0.021			---				X			X	X				X					
124	0.021			---				X				X				X					
125	0.037			---				X			X	X			X	X					
126	0.015			---				X				X	X	X		X					
127	0.073			---				X						X	X	X					
128	0.023			---				X				X				X					
129	0.042			---				X				X				X					
130	0.186			---				X		X					X	X					
131	0.171			---				X				X				X					
132	0.111			---				X		X		X				X					
133	0.031			---				X		X		X	X			X					
135	0.098			---				X				X	X	X		X					
137	0.033			---				X		X			X	X		X					

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	PEM	PSS	PFO	PEM	PSS	PFO	EV	Other	General Habitat	Study Area	Flood Storage	Discharge Area	Recharge Area	Pollution Prevention	Other	No	Yes	Dewatering	Inundation	Gate Cutting	Compensatory Replacement
138	0.036			---				X			X	X	X	X	X	X					
139	0.010			---				X			X		X	X	X	X					
140	0.080			---				X			X	X	X	X	X	X					
155	0.055			---				X			X					X					
156	0.031			---				X				X				X					
158	0.219			---				X	X		X	X		X	X	X					
159	0.265			---				X	X	X		X	X	X	X	X					
160	0.031			---				X	X	X	X	X	X	X	X	X					
161	0.070			---				X		X	X	X	X	X	X	X					
162 ⁽³⁾	0.471			---				X	X	X		X	X	X	X	X					
163	0.025			---				X							X	X					
164	0.178			---				X		X					X	X					
165	0.027			---				X		X					X	X					
166	0.025			---				X							X	X					
171	0.019			---				X		X				X	X	X					
174	0.293			---				X	X	X	X	X	X	X		X					
175	0.202			---				X	X	X	X	X		X	X	X					
187	0.007			---				X			X	X				X					
211	0.015			---				X		X				X	X	X					
212	0.020			---				X						X	X	X					

Notes: --- Wetland not checked at time of June 2020 renewal (i.e. not undermined or still within 12 month window of undermining).
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 162⁽³⁾ - No access to property due to property owner refusal (wetland present - acreage assumed same).

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	PEM	PSS	PFO	PEM	PSS	PFO		EV	Other	General Habitat	Study Area	Flood Storage	Discharge Area	Recharge Area	Pollution Prevention	Other	No	Yes	Dewatering	Inundation	Gate Cutting
213	0.018			---				X			X			X	X	X					
214	0.247			---				X	X	X		X				X					
215	0.040			---				X						X	X	X					
216	0.019			---				X						X	X	X					
217	0.006			---				X		X	X			X	X	X					
218	0.065			---				X		X	X	X		X		X					
219	0.065			---				X	X	X						X					
220	0.162			---				X	X	X	X				X	X					
221	0.083			---				X		X	X	X		X	X	X					
222	0.019			---				X		X	X	X		X	X	X					
223	0.023			---				X		X	X	X		X	X	X					
268*	0.027			0.034				X			X			X	X	X					
269*	0.004			0.006				X			X	X		X	X	X					
270	0.007			---				X				X				X					
271	0.025			---				X		X		X	X	X	X	X					
272*	0.230 ⁽⁴⁾		0.026 ⁽⁴⁾	0.230 ⁽⁴⁾		0.026 ⁽⁴⁾		X	X	X	X	X	X	X	X	X					
312*	0.016			0.039				X		X		X	X	X	X	X					
313	0.116			---				X		X		X	X	X	X	X					
314	0.066			---				X	X	X		X				X					
315	7.559	0.211	0.012	---				X	X	X	X	X	X	X	X	X					

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* - Wetland checked post-mining prior to June 2020 renewal.

0.230⁽⁴⁾ - PFO Acreage not reported due to error; Acreages adjusted accordingly.

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	PEM	PSS	PFO	PEM	PSS	PFO	EV	Other	General Habitat	Study Area	Flood Storage	Discharge Area	Recharge Area	Pollution Prevention	Other	No	Yes	Dewatering	Inundation	Gate Cutting	Compensatory Replacement
316	0.044			---				X			X	X	X	X	X	X					
317*	0.302			2.327				X	X		X		X	X	X	X					
318	0.037			---				X			X		X	X	X	X					
319*	0.061			0.044				X	X		X	X	X		X	X					
320*	0.187			0.491				X	X		X	X	X		X	X					
321*	0.020			0 ⁽⁵⁾				X	X		X	X			X	X					
322*	0.329			0.329				X	X		X	X	X	X	X	X					
323*	0.005			0.005				X	X		X			X		X					
324*	0.215			0.215				X	X		X	X			X						
325*	0.011			0.008				X	X		X			X		X					
326*	0.025			0.025				X	X		X			X		X					
327*	0.042			0.047				X			X			X		X					
328*	0.019			0.026				X			X	X		X		X					
329*	0.112			0.111				X			X	X		X	X	X					
330*	0.135			0.154				X			X	X		X	X	X					
331*	0.018			0.018				X			X			X		X					
332*	0.009			0.012				X	X		X				X	X					
333*	0.017			0.000																	
334*	0.020			0.038				X			X				X	X					
335	0.029			---				X			X				X	X					

Notes: --- Wetland not checked at time of June 2020 renewal (i.e. not undermined or still within 12 month window of undermining).
 * - Wetland checked post-mining prior to June 2020 renewal.
 0⁽⁵⁾ - Wetland 321 combined with Wetland 320; See Wetland 320 for acreage.

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	PEM	PSS	PFO	PEM	PSS	PFO	EV	Other	General Habitat	Study Area	Flood Storage	Discharge Area	Recharge Area	Pollution Prevention	Other	No	Yes	Dewatering	Inundation	Gate Cutting	Compensatory Replacement
336	0.009			---				X			X			X	X						
337*	0.011			0.011				X			X			X	X						
338*	0.040			0.052				X			X			X	X						
339*	0.029			0.040				X	X		X			X	X						
340*	0.209			0.292				X	X		X			X	X						
341*	0.168			0 ⁽⁶⁾																	
342*	0.148			0.112				X	X	X	X			X	X	X					
343*	0.070			0.070				X	X		X	X		X	X	X					
344*	0.011			0.004				X			X				X						
345*	0.096			0.096				X	X		X			X	X	X					
346*	0.115			0.115				X	X	X	X			X		X					
347*	0.017			0.008				X			X				X						
348*	0.029			0.024				X	X	X	X				X						
349	0.036			---				X	X			X		X	X	X					
350	0.146			---				X	X			X		X	X	X					
351*	0.011			0.000																	
352*	0.015			0.000																	
353	0.086			---				X	X		X			X	X	X					
354	0.149			---				X	X	X	X			X	X	X					
WL-2	0.032			---				X	X						X						

Notes: --- Wetland not checked at time of June 2020 renewal (i.e. not undermined or still within 12 month window of undermining).
 * - Wetland checked post-mining prior to June 2020 renewal.
 0⁽⁶⁾ - Wetland 341 combined with Wetland 317; See Wetland 317 for acreage.

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	PEM	PSS	PFO	PEM	PSS	PFO	EV	Other	General Habitat	Study Area	Flood Storage	Discharge Area	Recharge Area	Pollution Prevention	Other	No	Yes	Dewatering	Inundation	Gate Cutting	Compensatory Replacement	
WL-3	0.076			---				X	X							X						
WL-4	0.220			---				X	X							X						
PM-1 ⁽⁷⁾	0.000			0.023				X			X				X	X						
PM-2 ⁽⁷⁾	0.000			0.006				X						X	X	X						
PM-3 ⁽⁷⁾	0.000			0.064				X			X			X	X	X						
PM-4 ⁽⁷⁾	0.000			0.014				X								X						
PM-5 ⁽⁷⁾	0.000			0.343				X	X	X	X				X	X						
TOTAL	19.177	0.211	0.038	22.137	0.211	0.038																
	19.426		22.386 ⁽⁸⁾																			
	+ 2.960																					

19.177	0.211	0.038	22.137	0.211	0.038
19.426		22.386 ⁽⁸⁾			
+ 2.960					

Post-Mining Checked Wetland Total					
4.661	0.026	7.621	0.026	4.687	7.647
+ 2.960					

Notes: --- Wetland not checked at time of June 2020 renewal (i.e. not undermined or still within 12 month window of undermining).
 * - Wetland checked post-mining prior to June 2020 renewal.
 PM-1⁽⁷⁾ - New wetland gained during post-mining wetland delineations.
 22.369⁽⁸⁾ - Acreage total includes wetlands not yet undermined or checked post-mining as being the same as the time of permitting.

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