

Permit Application # 30841316
 Mine: Harvey Mine LW-4
 Watershed: Bates Creek, Browns Creek, Enlow Fork

Date: November 2011-October 2013
 pre-mining
 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-12	0.065	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-13	0.123	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-14	0.014	0.000	0.000				NO	NO	NO	NO	YES	YES	NO	NO	NO								
W-15	0.016	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	NO	NO	NO							
W-16	0.006	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	NO	NO	NO							
W-17a	0.000	0.074	0.000				NO	NO	YES	NO	NO	YES	YES	NO	NO	NO							
W-17b	0.000	0.031	0.000				NO	NO	YES	NO	NO	YES	YES	NO	NO	NO							
W-19	0.007	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-32	0.061	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-32b	0.015	0.000	0.000				NO	NO	YES	NO	YES	NO	YES	YES	NO	NO							
W-32c	0.019	0.000	0.000				NO	NO	YES	NO	YES	NO	YES	YES	NO	NO							
W-32d	0.004	0.000	0.000				NO	NO	YES	NO	YES	NO	YES	YES	NO	NO							
W-33	0.032	0.000	0.000				NO	NO	NO	NO	YES	YES	YES	YES	NO	NO							
W-34	0.003	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	NO	NO	NO							
W-35	0.035	0.000	0.000				NO	NO	YES	NO	YES	NO	YES	YES	NO	NO							
W-36	0.338	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-41d	0.027	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-42	0.042	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-42b	0.015	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-42c	0.004	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-42d	0.012	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-42e	0.025	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-42f	0.024	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-42g	0.016	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-42h	0.032	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-42i	0.369	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-72Y	0.048	0.000	0.005				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
	1.352	0.105	0.005																				
Total		1.4619																					

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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-85	0.005	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	NO	NO	NO							
W-85b	0.015	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	NO	NO	NO							
W-86	0.074	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-87	0.036	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	NO	NO	NO							
W-87b	0.002	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	NO	NO	NO							
W-87c	0.013	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	NO	NO	NO							
W-88	0.051	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	NO	NO	NO							
W-88b	0.013	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	NO	NO	NO							
W-89	0.008	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-89b	0.0003	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-89c	0.044	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-89d	0.002	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-90	0.171	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	NO	NO	NO							
W-90b	0.019	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	NO	NO	NO							
W-91	0.035	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-91b	0.001	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-91c	0.035	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-91e	0.036	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-92	0.026	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO							
W-106	0.002	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	NO	NO	NO							
W-112	0.013	0.000	0.000				NO	NO	NO	NO	YES	NO	NO	YES	NO	NO							
W-112b	0.005	0.000	0.000				NO	NO	NO	NO	YES	NO	NO	YES	NO	NO							
W-113	0.023	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO							
W-114	0.044	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO							
W-114b	0.001	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO							
W-114c	0.011	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO							
W-115	0.038	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	YES	NO	NO							
W-115b	0.003	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	YES	NO	NO							
W-115c	0.003	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	YES	NO	NO							
W-115d	0.259	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	YES	NO	NO							
	0.987	0.000	0.000																				
Total	0.9873																						

Permit Application # 30841316
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Date: November 2011-October 2013
 pre-mining
 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-115e	0.001	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	YES	NO	NO							
W-115f	0.002	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	YES	NO	NO							
W-115g	0.002	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	YES	NO	NO							
W-115h	0.004	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	YES	NO	NO							
W-115i	0.004	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	YES	NO	NO							
W-115j	0.012	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	YES	NO	NO							
W-115k	0.001	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	YES	NO	NO							
W-115l	0.032	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	YES	NO	NO							
W-116	0.004	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO							
W-117	0.035	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-117b	0.005	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-118	0.007	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO							
W-119	0.011	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	YES	NO	NO							
W-119b	0.002	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	YES	NO	NO							
W-119c	0.014	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	YES	NO	NO							
W-119d	0.001	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	YES	NO	NO							
W-119e	0.025	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	YES	NO	NO							
W-119f	0.009	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	YES	NO	NO							
W-119g	0.002	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	YES	NO	NO							
W-120	0.017	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	YES	NO	NO							
W-121	0.014	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO							
W-122	0.036	0.000	0.000				NO	NO	NO	NO	YES	YES	YES	YES	NO	NO							
W-123	0.002	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO							
W-124	0.018	0.000	0.000				NO	NO	NO	NO	YES	NO	NO	NO	NO	NO							
W-125	0.005	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO							
W-126	0.051	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-127	0.037	0.000	0.000				NO	NO	NO	NO	YES	YES	YES	YES	NO	NO							
W-128	0.033	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	YES	NO	NO							
	0.384	0.000	0.000																				
Total	0.3840																						

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Date: November 2011-October 2013
 pre-mining
 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-128b	0.028	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	YES	NO	NO						
W-128c	0.008	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	YES	NO	NO						
W-128d	0.002	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	YES	NO	NO						
W-128e	0.018	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	YES	NO	NO						
W-128f	0.005	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	YES	NO	NO						
W-129	0.003	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO						
W-129b	0.021	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO						
W-129c	0.060	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO						
W-129d	0.088	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO						
W-129e	0.004	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO						
W-129f	0.012	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO						
W-129g	0.008	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO						
W-129h	0.047	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO						
W-130	0.063	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO						
W-130b	0.027	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO						
W-130c	0.004	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO						
W-131	0.085	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO						
W-132	0.076	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO						
W-133	0.017	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO						
W-134a	0.001	0.000	0.000				NO	NO	NO	NO	YES	YES	YES	YES	NO	NO						
W-134b	0.003	0.000	0.000				NO	NO	NO	NO	YES	YES	YES	YES	NO	NO						
W-134c	0.020	0.000	0.000				NO	NO	NO	NO	YES	YES	YES	YES	NO	NO						
W-134d	0.012	0.000	0.000				NO	NO	NO	NO	YES	YES	YES	YES	NO	NO						
W-134e	0.006	0.000	0.000				NO	NO	NO	NO	YES	YES	YES	YES	NO	NO						
W-134f	0.008	0.000	0.000				NO	NO	NO	NO	YES	YES	YES	YES	NO	NO						
W-135	0.244	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO						
W-135b	0.009	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO						
W-135c	0.004	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO						
Total	0.883	0.000	0.000																			
	0.8826																					

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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-135d	0.0003	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-135e	0.031	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-135f	0.011	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-135g	0.017	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-135h	0.010	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-136	0.005	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO							
W-137	0.258	0.386	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-137b	0.044	0.067	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-138	0.012	0.000	0.000				NO	NO	NO	NO	YES	YES	YES	YES	NO	NO							
W-139	0.047	0.000	0.000				NO	NO	NO	NO	YES	YES	YES	YES	NO	NO							
W-139b	0.001	0.000	0.000				NO	NO	NO	NO	YES	YES	YES	YES	NO	NO							
W-139c	0.004	0.000	0.000				NO	NO	NO	NO	YES	YES	YES	YES	NO	NO							
W-139d	0.002	0.000	0.000				NO	NO	NO	NO	YES	YES	YES	YES	NO	NO							
W-139e	0.003	0.000	0.000				NO	NO	NO	NO	YES	YES	YES	YES	NO	NO							
W-140a	0.004	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO							
W-140b	0.001	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO							
W-140c	0.010	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO							
W-140d	0.002	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO							
W-140e	0.004	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO							
W-141	0.004	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO							
W-141b	0.002	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO							
W-141c	0.010	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO							
W-141d	0.002	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO							
W-141e	0.001	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO							
W-142	0.006	0.000	0.000				NO	NO	NO	NO	YES	YES	YES	YES	NO	NO							
Total	0.493	0.453	0.000																				
	0.9456																						

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W-142b	0.003	0.000	0.000				NO	NO	NO	NO	YES	YES	YES	YES	NO	NO							
W-142c	0.013	0.000	0.000				NO	NO	NO	NO	YES	YES	YES	YES	NO	NO							
W-142d	0.006	0.000	0.000				NO	NO	NO	NO	YES	YES	YES	YES	NO	NO							
W-143	0.003	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO							
W-143b	0.003	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO							
W-143c	0.005	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO							
W-143d	0.007	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO							
W-143e	0.015	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO							
W-143f	0.042	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO							
W-143g	0.029	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO							
W-143h	0.061	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	YES	NO	NO							
W-144	0.018	0.000	0.000				NO	NO	NO	NO	NO	YES	YES	NO	NO	NO							
W-152C	0.037	0.002	0.002				NO	NO	YES	NO	NO	YES	YES	NO	NO	NO							
W-153C	0.030	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO	NO							
W-153C1	0.019	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO	NO							
W-153C2	0.017	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO	NO							
W-153C3	0.022	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO	NO							
W-153C4	0.045	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO	NO							
W-154C	0.009	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-155C	0.032	0.004	0.002				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-156C	0.0017	0.0003	0.000				NO	NO	YES	NO	NO	NO	NO	NO	NO	NO							
W-156C1	0.005	0.000	0.000				NO	NO	YES	NO	NO	NO	NO	NO	NO	NO							
W-156C2	0.0036	0.0004	0.000				NO	NO	YES	NO	NO	NO	NO	NO	NO	NO							
W-157C	0.045	0.000	0.000				NO	NO	YES	NO	YES	NO	YES	YES	NO	NO							
W-158C	0.233	0.041	0.000				NO	NO	YES	NO	YES	NO	YES	YES	NO	NO							
W-158C1	0.034	0.000	0.000				NO	NO	YES	NO	YES	NO	YES	YES	NO	NO							
W-162A	0.071	0.013	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
Total	0.809	0.061	0.004																				
	0.8742																						

Permit Application # 30841316
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 Watershed: Bates Creek, Browns Creek, Enlow Fork

Date: November 2011-October 2013
 pre-mining
 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-163A	0.043	0.000	0.000				NO	NO	NO	YES	YES	YES	NO	NO	NO								
W-164A	0.011	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO								
W-164A1	0.059	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO								
W-165A	0.009	0.001	0.001				NO	NO	YES	NO	YES	YES	YES	NO	NO								
W-166A	0.086	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO								
W-166A1	0.024	0.003	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO								
W-167A	0.039	0.000	0.000				NO	NO	NO	NO	YES	YES	YES	NO	NO								
W-167A1	0.006	0.000	0.000				NO	NO	NO	NO	YES	YES	YES	NO	NO								
W-168A	0.035	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO								
W-168A1	0.012	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO								
W-169A	0.014	0.001	0.001				NO	NO	YES	NO	YES	YES	NO	NO	NO								
W-170A	0.006	0.001	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO								
W-171A	0.040	0.004	0.004				NO	NO	YES	NO	YES	YES	YES	NO	NO								
W-171A1	0.006	0.001	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO								
W-171B	0.041	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO								
W-171C	0.028	0.001	0.000				NO	NO	YES	NO	NO	YES	YES	NO	NO								
W-172A	0.045	0.005	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO								
W-172B	0.009	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	NO	NO								
W-172C	0.006	0.001	0.000				NO	NO	YES	NO	NO	YES	YES	NO	NO								
W-173A	0.021	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	NO	NO								
W-173A1	0.008	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	YES	NO								
W-173B	0.028	0.001	0.000				NO	NO	YES	NO	NO	YES	YES	YES	NO								
W-173C	0.004	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO								
W-174A	0.017	0.001	0.001				NO	NO	YES	NO	NO	YES	YES	NO	NO								
W-174A1	0.003	0.002	0.000				NO	NO	YES	NO	NO	YES	YES	NO	NO								
W-174A2	0.005	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	NO	NO								
W-174B	0.017	0.002	0.002				NO	NO	YES	NO	YES	YES	YES	NO	NO								
Total	0.624	0.024	0.009																				
		0.6565																					

Permit Application # 30841316
 Mine: Harvey Mine LW-4
 Watershed: Bates Creek, Browns Creek, Enlow Fork

Date: November 2011-October 2013
 pre-mining
 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-174C	0.015	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO								
W-175A	0.041	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	NO	NO	NO							
W-175A1	0.001	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	NO	NO	NO							
W-175A2	0.013	0.000	0.000				NO	NO	YES	NO	NO	YES	YES	NO	NO	NO							
W-175B	0.085	0.004	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO	NO							
W-176A	0.002	0.001	0.000				NO	NO	YES	NO	NO	YES	YES	NO	NO	NO							
W-176A1	0.008	0.001	0.000				NO	NO	YES	NO	NO	YES	YES	NO	NO	NO							
W-177A	0.002	0.001	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO	NO							
W-177B	0.010	0.001	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO	NO							
W-178B	0.003	0.002	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO	NO							
W-179B	0.008	0.006	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO	NO							
W-181B	0.011	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO	NO							
W-181C	0.008	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO	NO							
W-182A	0.021	0.011	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO	NO							
W-182B	0.047	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO	NO							
W-182C	0.038	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO	NO							
W-182C1	0.013	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO	NO							
W-183A	0.016	0.002	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO	NO							
W-183A1	0.002	0.001	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO	NO							
W-183B	0.003	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO	NO							
W-183B1	0.005	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO	NO							
W-183C	0.083	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO	NO							
Total	0.436	0.030	0.000																				
	0.4661																						

Permit Application # 30841316
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Date: November 2011-October 2013
 pre-mining
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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-184A	0.019	0.001	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO	NO							
W-184A1	0.005	0.001	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO	NO							
W-184B	0.017	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-184C	0.067	0.007	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO	NO							
W-185B	0.007	0.002	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO	NO							
W-185C	0.064	0.003	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-186C	0.031	0.000	0.003				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-186C1	0.066	0.000	0.007				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-187C	0.108	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-188B	0.012	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-188C	0.064	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-191A	0.012	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-191B	0.046	0.005	0.005				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-192B	0.065	0.007	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-193B	0.017	0.002	0.001				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-193B1	0.003	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-194B	0.008	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-195A	0.039	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	NO	NO	NO							
W-203A	0.032	0.009	0.004				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-203B	0.054	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-204A	0.008	0.001	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-204B	0.047	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-205A	0.023	0.001	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-206A	0.022	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-206A1	0.010	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-207A	0.005	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-208A	0.029	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
Total		0.880	0.039	0.020																			
			0.9389																				

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	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-209A	0.014	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-210A	0.002	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-211A	0.054	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-211A1	0.002	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-212A	0.088	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-212B	0.242	0.033	0.048				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-213A	0.008	0.001	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-213A1	0.014	0.001	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-214A	0.005	0.001	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-214B	0.057	0.003	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-215B	0.200	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-215B1	0.004	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-216A	0.005	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-216B	0.025	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-217B	0.004	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-218B	0.050	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-219B	0.041	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-219B1	0.002	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-219B2	0.032	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-219B3	0.005	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-220B	0.275	0.032	0.016				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-221B	0.013	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-221B1	0.071	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-222B	0.016	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-223B	0.069	0.008	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-223B1	0.023	0.003	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-224B	0.019	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
Total	1.338	0.082	0.064																				
		1.4837																					

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	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-225B	0.218	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-225B1	0.019	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-226B	0.029	0.002	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-227B	0.061	0.000	0.003				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-227B1	0.042	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-228B	0.123	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-229B	0.029	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-229B1	0.007	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-230B	0.035	0.000	0.002				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-231B	0.138	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-231B1	0.014	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-233B	0.049	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-234B	0.033	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-235B	0.032	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-236B	0.033	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-237B	0.141	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-237B1	0.006	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-238B	0.357	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-238B1	0.016	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-239B	0.027	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-239B1	0.011	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-240B	0.023	0.002	0.004				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-241B	0.136	0.000	0.000				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
W-242B	0.139	0.020	0.040				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
5-BF-W01	0.555	0.000	0.062				NO	NO	YES	NO	YES	YES	YES	YES	NO	NO							
	2.272	0.024	0.111																				
Total	2.4069																						