APPENDIX F3 AMEC 2010 and 2014 Wetland Baseline Survey Report

Attachment D – Wetland Functional Assessment Forms

Attachment E – Additional Wetland Delineation Data Sheets

Black Point Quarry Project Guysborough County, NS SLR Project No.: 210.05913.00000



APPENDIX D Wetland Functional Assessment Forms

APPENDIX D: W	/L1 Nova Scotia Wetland Evaluat	ion Technique Fi	eld Data Sheet								
Project Name: Bla	ck Point Quarry	Evaluator: So	cott Burley		GPS Coordi	inates:	645437 E	x 5022529 N			
PID:35212497, 35	212505, 35212521, 35212513, 35044056, 35214014, 35214022, 352	14022 and 35213	990	Site Address:	Black Point, (Guysborough C	ounty, NS				
Sources and Date	s of Mapping/Images: NS Wetlands Inventory (2012); NS Forest Inver	itory (Current Fo	rest Data - 2004)	; Google Earth (2003)						
Evaluation Date:	04-Sep	o-14 Site Visit Dat	te:	19-Aug-14	4						
Weather Condition	ns (past 48 hours): Periods of rain with clouds										
Seasonal Weather	Conditions: Typical										
SECTION ONE: W	ATERSHED CHARACTERISTICS										
1 Watershed	Name (tertiary): 1EQ-SD	Size: 518	km²								
2 % Watersh	ed Land Cover	For: 43	Nat: 36	Past/Hay: <1	Crop: <1	Urb/Com: 2	Road: <1	Other Dev: <1	. (Gravel Pit	, Landfill, Ir	ndustrial
3 % Watersho	ed WL Cover and by Class	Total: 10%	SM: <1	BO: 6	FE: 1	FM: 2	FS: 1	SS: 1	CP: <1	VP: Prese	nt
SF1 Watershed	condition	H	М	L							
SF2 Proportion	of WL area in watershed & opportunity for floodwater detention	Н (M	L							
SECTION TWO: W	ETLAND CHARACTERISTICS										
Wetland Type: Bo	g/Swamp	WL size: 1	15 hectares		Landform:	Basin		Landscape Po	sition: Lotio	-Stream Co	onfined
Water flow path:	Throughflow	Wetland Ori	gin: Natural								
1 Water Regi	me	PF (SF	TF	SS	(PS)	RfT	IfT	AF		
2 # WL's with	in 30m project area	Total# 0	SM:	BO:	FE:	FM:	FS:	SS:	CP:	VP:	
3 Is WL part of	of complex	Yes	No								
4 % each wet	land type in complex	SM:	BO: 43	FE:	FM:	FS: 32	SS: 25	CP:	VP:		
5 Is WL borde	ering or associated with a lake or pond?	bordering		within 100m		N/A		specify			
6 Standing w	eter?	Yes	Avg Dep: 5-20		% Inundate	ed: 10%	No				
	let (circle all that apply)?	nlet	Outlet								
	pland Land Use within 100m (%)	For: 90	Nat:	PasHay:	Crop:	UrbCm:	Road:	Other Dev: 10) Powerline	corridor	
9 Are there s	ressors in WL or WL buffer area? Circle primary stressor(s).		_, WcS, O/C								
			NTV_X_DG,EA_		1					nd	
	Altered (circle all that apply)?	Ditching	Dams	Tiles	Culvert	Well	Diversion	Other Specify	:		
SF3 Rate the ge	neral wetland condition/integrity	(H)	М	L							
	ADJACENT LAND CONDITION AND INTEGRITY										
	dth of adjacent naturalized buffer	>1000n	-								
2 Widths for	• •	H >1	M 8-15	(1<8)		located along o					
	wildlife habitat	H >1 0 0	M 15-100	[<15	Powerline l	located along o	ne side of	wetland			
	ea vegetation condition (list % in each category)	H 90%	М	L 10%							
	ea diversity and structure (list % in each category)	Н 90%	М	L 10%							
	pland Slope (list % in each category)	Steep 5%	Mod 20%	Gentle 75%							
	nd supports water quality	Yes	No	Specify:							
	nd supports wildlife habitat	Yes	No	Specify:	1						
	erall condition and integrity land adjacent to wetland	(H)	М	L	is buffer re	quired to mair	ntain red fl	ag functions of	wetland?	f yes if no	<u> </u>
	OCUMENTED IMPORTANT FEATURES										
SF5 Is the WL a	WSS?	Yes	(No								

SF6 Does the WL support commercial/recreational fish/shellfish?	Yes	(No)				_		
SF7 Species of concern (Fed/Prov)? Specify. Cladonia stygia	End	Thr	SpC	Red	Yellow S1	52	S3	N/A
SF8 Wetland has conservation/compensation agreements/activity?	Yes	No	specify:					
SF9 Wetland is calcerous fen, black ash or cedar swamp?	Yes	No						
SF10 Within Drinking Water Protected Area (designated watershed/wellfield)	Yes	No	specify:					
SF11 WL within a floodplain and upstream of or within of a populated area?	Yes	No						
SF12 Fed/Prov/Municipal area of interest?	Yes	No	specify:					
SECTION FIVE: HYDROLOGIC CONDITION AND INTEGRITY								
1 Is WL source of stream or headwater(wc order 1 or 2)	(Yes)	No	Specify: Loca	ted along a f	first order stream			
2 Is WL geographically isolated?	Yes	No	Specify:					
3 WL ability to maintain characteristic hydrologic regime	High		Med		Low			
4 Water Storage Depth (list % in each class)	>30cm	15-30cm 10%	up to 15cm 1	.0%	No ponding			
5 Signs of surface water retention observed?	SW_30_cm,	, WSL, WCD,	WMcm, SM	cm, SD,	, AD, ID, PMT_x_,	AI, BT, AR_	_, Other:	
6 Describe observable/historical anthropogenic sediment delivery	Low		Med		High			
7 Disturbance of WL soils	Low		Med		High			
8 Predominant soils adjacent to WL	Sand		Silt/loam		Clay bedrock			
9 Capacity of WL to alter/retard flows	High		Med		Low			
10 Roughness coefficient for surface water flow path	High		Med		Low			
11 Strormwater/Wastewater/Agricultural runoff detention	High		Med		Low			
12 Water Source	Natural		Mostly natur	al	Partly altered	Controlle	t	
13 Hydrology of tidal wetlands	Unrestricted	d	Reduced		Restricted	N/A)		
14 Coastal storm surge	Yes	No						
SF13 WL hydrologic condition	Natural	Modified		Significan	itly Modified			
SF14 WL important for maintaining stream flow?	Yes	No						
SF15 WL ability to detain surface water	High	(Med)	Low					
SECTION SIX: WATER QUALITY								
1 Strormwater/Wastewater/Agricultural runoff as water source?	High		Med		Low			
2 Nutrients/sediments from surrounding land	High		Med		Low			
3 Significant flood/stormwater attenuation	Yes	No)						
4 Vegetation capacity to settle suspended sediments	High		Med		Low			
5 WL type /landscape position holds/filters runoff?	Yes	No						
SF16 Wetland improves water quality?	Yes	No						
SF17 Evidence of excess nutrient loading/contamination?	(low)	Med	High					
SF18 WL contributes to water quality in downstream resources	High	Med	Low					
SECTION SEVEN: GROUNDWATER INTERACTIONS								
1 Describe soils in wetland	Recharge		Discharge					
2 Land use / run off in subwatershed upstream	Recharge		Discharge					
3 Conditions of upland soils within 200m of wetland	Recharge)	Discharge					
4 Hydroperiod of wetland	Recharge		Discharge					
5 Describe inlet/outlet configuration	Recharge		Discharge					
6 Characterize topographic relief surrounding wetland	Recharge		Discharge					

1 Wetand finging ocean/estuary/lake/pond/river/stream? 2 Scores of rooted regestation in shallow water zone 3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour 4 Prevalence of strong-stemmed amery, veg (shoreline marshes and fers only) 5 Describe shoreline revision potential 6 Shoreline/streambank weg condition upstope of water level 1 Low Med 6 Shoreline/streambank weg condition upstope of water level 1 Low Med 6 Shoreline/streambank weg condition upstope of water level 1 Low Med 6 Shoreline/streambank weg condition upstope of water level 1 Low Med 6 Shoreline/streambank weg condition upstope of water level 1 Low Med 6 Shoreline/streambank weg condition upstope of water level 1 Low Med 6 Shoreline/streambank weg condition upstope of water level 1 Low Med 6 Shoreline/streambank weg condition upstope of water level 1 Low Med 6 Shoreline/streambank weg condition upstope of water level 1 Low Med 6 Shoreline/streambank weg condition upstope of water level 1 Low Med 6 Shoreline/streambank weg condition upstope of water level 1 Low Med 6 Shoreline/streambank weg condition upstope of water level 1 Low Med 6 Shoreline/streambank weg condition upstope of water level 1 Low Med 6 Shoreline/streambank weg condition upstope of water level 1 Low Med 6 Shoreline/streambank weg condition upstope of water level 1 Low Med 1 Low 1 Visce morning (30%)/chamaedophne calyculate (20%)/, Nemoparthes mucronate (15%) 1 Dominant lohal to streambank upstope of the William of the Shoreline/shoreline	SF19 WL serves as a recharge site	Yes	No								
1 Wetand fringing ocean/estuary/lake/plond/river/stream?	SF20 WL serves as a discharge site	Yes	No								
2 Scover of rosted wegetation in shallow water zone A yee yell width DW shorten(systembank & 2 m depth contour 4 Prevalence of strong stemmed emerg. veg (shoreline marshes and fens only) 4 Prevalence of strong stemmed emerg. veg (shoreline marshes and fens only) 5 Describe shoreline erosion potential 6 Shoreline/reambank veg condition upslope of water level 1 Low Med (gigh) Artificial 5 Describe shoreline erosion potential 1 Vegetation diversity 1 Vegetation diversity 1 Vegetation diversity 1 Dominant Non-native or invasive species and % cover in the WL 3 Dominant Non-native or invasive species and % cover in the WL 3 Dominant Non-native or invasive species and % cover in the WL 5 Disturbance Types 5 Disturbance Types 7 Vegetation Disturbance 1 H M D Dominant Community 1 Low Med (gigh) Artificial 1 Vegetation diversity 1 Vegetation Disturbance or make species and % cover in the WL 1 Dominant Non-native or invasive species and % cover in the WL 2 Describe the undersity of plant community in the M D Describe the undersity of plant community in the M D Describe the undersity of plant community in the M D Describe the undersity of plant communities 4 H M D Describe the undersity of plant communities 5 Disturbance Types 7 Vegetation in adversity of plant communities 4 H M L STATULE ARTIFICIAL COMMUNITY 1 Interspersion of pen water and vegetation (upon water types only) 1 M L STATULE ARTIFICIAL COMMUNITY 2 Interspersion of open water and vegetation (upon water types only) 3 Welland condition related to detrinus 4 H M L VA D D D D D D D D D D D D D D D D D D	SECTION EIGHT: SHORELINE STABILIZATION AND INTEGRITY	_									
3 Age veg W width fly shoreline/streambank & 2 m depth contour 4 Prevalence of strong-stemmed energy veg (shoreline marshes and fens only) 5 Describe shoreline erasion potential 6 Storeline/streambank veg condition upslope of water level C Storeline/storel	1 Wetland fringing ocean/estuary/lake/pond/river/stream?	(Yes)	No	streamwidth >	>4m	streamwic	th<4m	WB Exposed	WB Sh	neltered	
4 Prevalence of strong-stemmed emerg, veg (shoreline marshes and fens only) 5 Describe shoreline erosion potential 6 Shoreline/streambank veg condition upslope of water level 1 Low Med (ligh) Artificial 7 Low Dality to stabilize shoreline 8 Low Med (ligh) Artificial 8 Low Med (ligh) Artificial 9 Low Med (ligh	2 % cover of rooted vegetation in shallow water zone	H >50%	M 10-50	L <10%					•		
5 Siboreline ronsion potential 6 Siboreline groadition upslope of water (evel Clow Med (ligh) Artificial 7 Noteworthy wildlife or evidence (birds, mammals, amphibians, etc) 8 Section Nine: PISH AND Wildlife shoreline 9	3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour	H >10m	M 3-10	L <3m	-						
6 Shoreline/Streambank veg condition upslope of water level W Ability to stabilize shoreline W 1	4 Prevalence of strong-stemmed emerg. veg (shoreline marshes and fens only)	High	Med	Low							
Section Nine: PLANT COMMUNITY Tolera plant species and % cover in the WL Sit: Picea marina (30%)/Chamaedaphne colyculata (20%)/ Nemopanthes mucronata (15%)	5 Describe shoreline erosion potential	High	Med	Low							
SECTION NINE: PLANT COMMUNITY Security	6 Shoreline/streambank veg condition upslope of water level	Low	Med	High	Artificial						
1 Vegetation diversity	SF21 WL ability to stabilize shoreline	Н	M	L	N/A						
Dominant plant species and % cover in the WL list: Picea mariana (30%)/Chamaedaphne colyculata (20%)/ Nemopanthes mucronata (15%)	SECTION NINE: PLANT COMMUNITY										
3 Dominant Non-native or Invasive species and % cover 4 Vegetation Disturbance 4 Negetation Disturbance 4 Negetation Disturbance 5 Disturbance Types 4 Negetative Integrity of plant community 5 Disturbance Types 5 No Specify: % 5 Specify type(s) below 5 Disturbance Types 5 No Specify: % 5 No Specify: S	1 Vegetation diversity	High	Med	Low							
4 Vegetation Disturbance 5 Disturbance Types 7 Vegetative Integrity of plant community E	1b Dominant plant species and % cover in the WL		ariana (30%)/Ch	amaedaphne co	alyculata (209	%)/ Nemopo	inthes muci	ronata (15%)	•	•	
S Disturbance Types 7 Vegetative Integrity of plant community 8 Pt	3 Dominant Non-native or Invasive species and % cover	Yes	No	specify: %							
7 Vegetative Integrity of plant community First is the plant community in plant communities First is plant in plant communities First is plant in plant community? First is plant in plant community. First plant community in plant community. First plant in plant	4 Vegetation Disturbance	Н	M		specify type	(s) below					
Section Sect	5 Disturbance Types	H,ATV	_,G,,M,lr	n, D/D, Im	, OAH	, Ii, Sd	_,E,,oth	ner,			
Does the WL contain a diversity of plant communities H M L	7 Vegetative Integrity of plant community	(E)	Н	M	L						
Does the WL contain a diversity of plant communities H M L	SF22 Is the plant community unique or rare regionally or provincially?	Yes	no	specify:							
SF25 Are there any observed rare or endangered plant species? Specify. SECTION TEX: FISH AND WILDLIFE HABITAT AND INTEGRITY 1 Interspersion of open water and vegetation (open water types only) 1 Interspersion of open water and vegetation (open water types only) 1 Interspersion of open water and vegetation (open water types only) 2 Interspersion that best fits entire wetland 3 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity 4 Interspersion of other wetlands in vicinity 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 Wet provides habitat for: SF26 Does wetland support fish/fish habitat? Fest No specify: SF27 Rare or endangered fish/wildlife species found in the wetland? Fish Describe community use NV_CP_CO_PO_PAAV_X_GB_E_HIWV_BO_HU_PG_X_BP_X_F_E_R_Other:	SF23 Does the WL contain a diversity of plant communities	(H)		L							
SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY 1 Interspersion of open water and vegetation (open water types only) 1b % cover in vegetation verus open water 2 Interspersion that best fits entire wetland 3 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity 4 Interspersion of other wetlands in vicinity 5 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: 5F26 Does wetland support fish/fish habitat? Fish Provides habitat for: 5F27 Rare or endangered fish/wildlife species found in the wetland? Find Thr SpC Red Yellow 51 S2 S3 (N/A) 1 Describe community use VV_CP_CO_PO_PA_A, N_x_GB_E_HI_WV_BO_HU_PG_x_BP_x_F_E_R_Other:	SF24 Rate the overall integrity/quality of plant community?	(H)	М	L				_			
1 Interspersion of open water and vegetation (open water types only) 1 Interspersion of open water and vegetation (open water types only) 2 Interspersion that best fits entire wetland 3 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity 4 Interspersion of other wetlands in vicinity 5 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians, etc) 8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: 12 WL provides habitat for: 13 Waterfowl 14 WL provides habitat for: 15 Does wetland support fish/fish habitat? 16 Wetland support fish/fish habitat? 17 Poscribe community use 18 Waterfowl 19 SpC Red Yellow 10 Wetland yellow 10 Waterbirds 10 Waterbirds 10 Waterbirds 10 Waterbirds 11 WL provides habitat for: 12 SpC Red Yellow 13 Sp Sp Sp N/A 14 Sp	SF25 Are there any observed rare or endangered plant species? Specify.	End	Thr	SpC	Red	Yellow	S1	52	<i>S3</i>	N/A	C. stygia
1b % cover in vegetation verus open water 2 Interspersion that best fits entire wetland 3 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity 4 Interspersion of other wetlands in vicinity 5 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: 5 Does wetland support fish/fish habitat? 5 F27 Rare or endangered fish/wildlife species found in the wetland? 5 F28 Overall fish and wildlife habitat quality 1 Describe community use 1 Describe community use 8 Wetland part of contiguous upland or wetland: 1 Describe community use 9 O	SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY										
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4 Interspersion of other wetlands in vicinity	2 Interspersion that best fits entire wetland	Н	M	L	N/A						
6 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: 5526 Does wetland support fish/fish habitat? 5527 Rare or endangered fish/wildlife species found in the wetland? 5528 Overall fish and wildlife habitat quality 1 Describe community use VVCPCOPOPA,AV_xGBEHI,WV, BOHU, PG_xBP_xF E, R, Other:	3 Wetland condition related to detritus	Н	M	L	N/A						
7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: 5526 Does wetland support fish/fish habitat? 5577 Rare or endangered fish/wildlife species found in the wetland? 5578 Overall fish and wildlife habitat quality 1 Describe community use No list: Dragon files, Passerines, Beaver, Moose Tracks Med Low N/A 1 list: Dragon files, Passerines, Beaver, Moose Tracks No N/A 1 list: Dragon files, Passerines, Beaver, Moose Tracks No N/A No N/A 1 list: Dragon files, Passerines, Beaver, Moose Tracks No N/A No N/A 1 list: Dragon files, Passerines, Beaver, Moose Tracks No N/A No N/A 1 list: Dragon files, Passerines, Beaver, Moose Tracks No N/A 1 list: Dragon files, Passerines, Beaver, Moose Tracks No N/A 1 list: Dragon files, Passerines, Beaver, Moose Tracks No N/A 1 list: Dragon files, Passerines, Beaver, Moose Tracks No N/A 1 list: Dragon files, Passerines, Beaver, Moose Tracks No N/A 1 list: Dragon files, Passerines, Beaver, Moose Tracks No N/A 1 list: Dragon files, Passerines, Beaver, Moose Tracks No N/A 1 list: Dragon files, Passerines, Beaver, Moose Tracks No N/A No N/A 1 list: Dragon files, Passerines, Beaver, Moose Tracks No N/A No N/A 1 list: Dragon files, Passerines, Beaver, Moose Tracks No N/A No N/A 1 list: Dragon files, Passerines, Beaver, Moose Tracks No N/A No N/A 1 list: Dragon files, Passerines, Beaver, Moose Tracks No N/A No N/A No N/A 1 list: Dragon files, Passerines, leaver, Moose Tracks No N/A N	4 Interspersion of other wetlands in vicinity	H	M	L		•					
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9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: SF26 Does wetland support fish/fish habitat? SF27 Rare or endangered fish/wildlife species found in the wetland? SF28 Overall fish and wildlife habitat quality 1 Describe community use Yes No Ilist: 10 10-25ha 210 10-25ha	7 Noteworthy wildlife or evidence (birds, mammals, amphibians, etc)	Yes	No	list: Dragon fli	es, Passerine	s, Beaver, M	oose Track	S			
10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: SF26 Does wetland support fish/fish habitat? SF27 Rare or endangered fish/wildlife species found in the wetland? SF28 Overall fish and wildlife habitat quality SF28 Overall fish and wildlife habitat quality 1 Describe community use SF27 Describe community use 1 Describe community use	8 Connected to permanent water (accessible to fish)?	Exceptional	High	Med	Low	N/A					
11 WL provides habitat for: SF26 Does wetland support fish/fish habitat? SF27 Rare or endangered fish/wildlife species found in the wetland? SF28 Overall fish and wildlife habitat quality SECTION ELEVEN: COMMUNITY USE/VALUE 1 Describe community use Amphibians Reptiles Waterfowl Waterbirds Mammals Fish R/E species Specify: Specify: Specify: L Specify: L Specify: Specify:	9 Fish species observed or evidence seen (list)	Yes	No	list:							
SF26 Does wetland support fish/fish habitat? SF27 Rare or endangered fish/wildlife species found in the wetland? SF28 Overall fish and wildlife habitat quality SECTION ELEVEN: COMMUNITY USE/VALUE 1 Describe community use Yes No Specify: SpC Red Yellow S1 S2 S3 N/A L SECTION ELEVEN: COMMUNITY USE/VALUE VV_,CP_,CO_,PO_,PA_,,AV_x,GB_,E_,HI_, WV_,BO_,HU_,PG_x_,BP_x_,F_,E_,R_,Other:	10 Wetland part of contiguous upland or wetland:	>50ha	25-50ha	10-25ha	<10h						
SF27 Rare or endangered fish/wildlife species found in the wetland? SF28 Overall fish and wildlife habitat quality SECTION ELEVEN: COMMUNITY USE/VALUE 1 Describe community use Thr SpC Red Yellow S1 S2 S3 N/A L W L VV_,CP_,CO_,PO_,PA_,AV_x_,GB_,E_,HI_, WV_,BO_,HU_,PG_x_,BP_x_,F_,E_,R_,Other:	11 WL provides habitat for:	Amphibians	Reptiles	Waterfowl	Waterbirds	Mammals	Fish	R/E species			
SF28 Overall fish and wildlife habitat quality SECTION ELEVEN: COMMUNITY USE/VALUE 1 Describe community use VV_,CP_,CO_,PO_,PA_,,AV_x_,GB_,E_,HI_, WV_,BO_,HU_,PG_x_,BP_x_,F_,E_,R_,Other:	SF26 Does wetland support fish/fish habitat?	Yes	No	specify:							
SECTION ELEVEN: COMMUNITY USE/VALUE 1 Describe community use VV,CPCO,PO,PA,,AV_x_,GB,E,HI, WV, BO,HU, PG_x_, BP_x_,F, E, R, Other:	SF27 Rare or endangered fish/wildlife species found in the wetland?	End	Thr	SpC	Red	Yellow	S1	52	<i>S3</i>	N/A	
1 Describe community use VV,CPCO,PO,PA,,AV_x_,GB,E,HI, WV, BO,HU, PG_x_, BP_x_,F, E, R, Other:	SF28 Overall fish and wildlife habitat quality	Н	M	L							
	SECTION ELEVEN: COMMUNITY USE/VALUE										
	1 Describe community use	VV,CP,(CO,PO,PA	,,AV_x_,GB,E	,HI, WV_	, BO,HU	, PG_x_,	BP_x_,F, E,	R, Oth	ner:	
SF29 Rate the wetland's community use/value H M L	SF29 Rate the wetland's community use/value	Н									

APPENDIX D: WL2 Nova Scotia Wetland Evaluation	n Technique Fi	ield Data Sheet							
Project Name: Black Point Quarry	Evaluator: S	cott Burley		GPS Coordin	nates:	645430 E	x 5024058 N		
PID:35212497, 35212505, 35212521, 35212513, 35044056, 35214014, 35214022, 35214	022 and 35213	3990	Site Address: E	Black Point, G	uysborough C	County, NS			
Sources and Dates of Mapping/Images: NS Wetlands Inventory (2012); NS Forest Invento	ory (Current Fo	rest Data - 2004)	Google Earth (2	2003)					
Evaluation Date: 04-Sep-1	4 Site Visit Da	te:	20-Aug-14	1					
Weather Conditions (past 48 hours): Periods of rain with clouds; sun and cloud									
Seasonal Weather Conditions: Typical									
SECTION ONE: WATERSHED CHARACTERISTICS									
1 Watershed Name (tertiary): 1EQ-SD	Size: 518	km²							
2 % Watershed Land Cover	For: 43	Nat: 36	Past/Hay: <1	Crop: <1	Urb/Com: 2	Road: <1	Other Dev: <1	1 (Gravel Pit	, Landfill, Industrial
3 % Watershed WL Cover and by Class	Total: 10%	SM: <1	BO: 6	FE: 1	FM: 2	FS: 1	SS: 1	CP: <1	VP: Present
SF1 Watershed condition	Н	М	L						
SF2 Proportion of WL area in watershed & opportunity for floodwater detention	H (M	L						
SECTION TWO: WETLAND CHARACTERISTICS									
Wetland Type: Fen/Swamp/Marsh	WL size:	6 hectares		Landform: B	Basin		Landscape Po	sition: Lotio	Pond
Water flow path: Inflow	Wetland Ori	igin: Natural							
1 Water Regime	(PF)	SF	TF	SS (PS	RfT	IfT	AF	
2 # WL's within 30m project area	Total# 0	SM:	BO:	FE:	FM:	FS:	SS:	CP:	VP:
3 Is WL part of complex	Yes	No							
4 % each wetland type in complex	SM:	BO:	FE: 23	FM: 45	FS: 32	SS:	CP:	VP:	
5 Is WL bordering or associated with a lake or pond?	bordering		within 100m		N/A		specify: small	pond at no	rthern end of wetlan
6 Standing water?	Yes	Avg Dep: 5-20		% Inundated	d: 15%	No			
7 Inlet or Outlet (circle all that apply)?	Inlet	Outlet							
8 Adjacent Upland Land Use within 100m (%)	For: 90	Nat:	PasHay:	Crop:	UrbCm:	Road:	Other Dev: 10	O gravel col	oble beach
9 Are there stressors in WL or WL buffer area? Circle primary stressor(s).	DD, CW_	_, WcS, O/C,	EB,DP,F,	M, ES,NI	E,DwP,				
	M,GC,A	ATV,DG_x_,EA_	_, R,Rr,U/0	CD,F_x_,FA	, other (spe	cify): Coast	tal garbage		
10 Hydrology Altered (circle all that apply)?	Ditching	Dams	Tiles	Culvert	Well	Diversion	Other Specify	/ :	
SF3 Rate the general wetland condition/integrity	(H)	M	L						
SECTION THREE: ADJACENT LAND CONDITION AND INTEGRITY									
1 Average width of adjacent naturalized buffer	>1000r	nı							
2 Widths for water quality	H >1	M 8-15	(<8)	gravel/cobb	le/boulder Be	ach along r	northern end of	f wetland	
3 Widths for wildlife habitat	H >100	M 15-100	(<15)						
4 Adjacent area vegetation condition (list % in each category)	H 90%	M	L 10%						
5 Adjacent area diversity and structure (list % in each category)	H 90%	М	L 10%						
6 Adjacent Upland Slope (list % in each category)	Steep 5%	Mod 20%	Gentle 75%						
7 Adjacent land supports water quality	Yes	No	Specify:						
8 Adjacent land supports wildlife habitat	Yes	No	Specify:						_
SF4 Rate the overall condition and integrity land adjacent to wetland	H	М	L	is buffer red	quired to mai	ntain red fl	ag functions of	wetland?	f yes if no
SECTION FOUR: DOCUMENTED IMPORTANT FEATURES									
SF5 Is the WL a WSS?	Yes	No							

SF6 Does the WL support commercial/recreational fish/shellfish?	Yes	(No)							
SF7 Species of concern (Fed/Prov)? Specify.	End		Thr	SpC	Red	Yellow	<i>S</i> 1	<i>S2</i>	<i>S3</i>	(N/A)
SF8 Wetland has conservation/compensation agreements/activity?	Yes		(No	specify:						
SF9 Wetland is calcerous fen, black ash or cedar swamp?	Yes		No							
SF10 Within Drinking Water Protected Area (designated watershed/	wellfield) Yes		No	specify:						
SF11 WL within a floodplain and upstream of or within of a populate	d area? Yes		No							
SF12 Fed/Prov/Municipal area of interest?	Yes		No	specify:						
SECTION FIVE: HYDROLOGIC CONDITION AND INTEGRITY										
1 Is WL source of stream or headwater(wc order 1 or 2)	Yes		No	Specify:						
2 Is WL geographically isolated?	Yes		No	Specify:						
3 WL ability to maintain characteristic hydrologic regime	High)		Med		Low				
4 Water Storage Depth (list % in each class)	>30cr	n	15-30cm 10%	up to 15cm 5%	6	No ponding				
5 Signs of surface water retention observed?	SW_3	0_cm, \	WSL_x_, WCD_>	_, WMcm, SN	/lcm, SD	, AD_x_, ID,	PMT_x_, A	ΛΙ, BT, AF	R, Other:	
6 Describe observable/historical anthropogenic sediment delivery	Low			Med		High				
7 Disturbance of WL soils	Low)		Med		High				
8 Predominant soils adjacent to WL	Sand			Silt/loam		Clay(bedroc	(V			
9 Capacity of WL to alter/retard flows	High			Med		Low				
10 Roughness coefficient for surface water flow path	High)		Med		Low				
11 Strormwater/Wastewater/Agricultural runoff detention	High			Med		Low				
12 Water Source	Natur	ral		Mostly natura	l	Partly altere	d	Controlled		
13 Hydrology of tidal wetlands	Unres	tricted		Reduced		Restricted		N/A)		
14 Coastal storm surge	Yes		No							
SF13 WL hydrologic condition	Natur	ral	Modified		Significantl	ly Modified				
SF14 WL important for maintaining stream flow?	Yes		No)							
SF15 WL ability to detain surface water	High)	Med	Low						
SECTION SIX: WATER QUALITY										
1 Strormwater/Wastewater/Agricultural runoff as water source?	High			Med		Low				
2 Nutrients/sediments from surrounding land	High			Med		Low				
3 Significant flood/stormwater attenuation	Yes		No							
4 Vegetation capacity to settle suspended sediments	High)		Med		Low				
5 WL type /landscape position holds/filters runoff?	Yes)	No							
SF16 Wetland improves water quality?	Yes)	No							
SF17 Evidence of excess nutrient loading/contamination?	Low)	Med	High						
SF18 WL contributes to water quality in downstream resources	High		Med	Low						
SECTION SEVEN: GROUNDWATER INTERACTIONS										
1 Describe soils in wetland	Recha	arge		Discharge						
2 Land use / run off in subwatershed upstream	Recha			Discharge						
3 Conditions of upland soils within 200m of wetland	Recha	arge		Discharge						
4 Hydroperiod of wetland	Recha	arge		Discharge						
5 Describe inlet/outlet configuration	Recha	arge		Discharge						
6 Characterize topographic relief surrounding wetland	Recha	arge		Discharge						

SF21 WL ability to stabilize shoreline H							
1 Wetland fringing ocean/estuary/lake/pond/river/stream? Small pond 2 % cover of rooted vegetation in shallow water zone 3 Avg veg WL width by shoreline/streambank & 2 m depth contour 4 Prevalence of strong-stemmed emerg, veg (shoreline marshes and fens only) 5 Describe shoreline erosion potential 6 Shoreline/streambank veg condition upslope of water level 6 Shoreline/streambank veg condition upslope of water level 7 WL ability to stabilize shoreline 8 M L N/A 8							
2 % cover of rooted vegetation in shallow water zone 3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour 4 Prevalence of strong-stemmed emerg. veg (shoreline marshes and fens only) 5 Describe shoreline erosion potential 6 Shoreline/streambank veg condition upslope of water level 6 Shoreline/streambank veg condition upslope of water level 6 Shoreline/streambank veg condition upslope of water level 7 WL ability to stabilize shoreline 8 WL ability to stabilize shoreline 8 WL ability to stabilize shoreline 8 WL ability to stabilize shoreline 9 WL ability to shoreline 1 WL provides habitat for: 9 WL ability to shoreline 1 WL provides habitat for: 9 WL ability to shoreline 1 WL provides habitat for: 9 WL ability to shoreline shoreline 1 WL provides habitat for: 9 WL ability to shoreline 1 WL provides habitat for: 1 WL provides habi							
3 Avg veg WL width b,w shoreline/streambank & 2 m depth contour 4 Prevalence of strong-stemmed emerg, veg (shoreline marshes and fens only) 5 Describe shoreline erosion potential 6 Shoreline/streambank veg condition upslope of water level	lth >4m	streamwidth	n<4m	WB Exposed	WB She	eltered	
4 Prevalence of strong-stemmed emerg, veg (shoreline marshes and fens only) 5 Describe shoreline erosion potential 6 Shoreline/streambank veg condition upslope of water level 7 Low Med Gligh Arti 7 W. Ability to stabilize shoreline 8 M L N/A 8 L N/A 8 L N/A 8 ECTION NINE: PLANT COMMUNITY 1 Vegetation diversity 1 Dominant plant species and % cover in the WL 3 Dominant Non-native or Invasive species and % cover 4 Vegetation Disturbance 4 Vegetation Disturbance 5 Disturbance Types 6 Disturbance Types 7 Vegetative Integrity of plant community 8 L M M L 8 L 8 SP22 Is the plant community unique or rare regionally or provincially? 8 Tate the overall integrity/ quality of plant communities 9 L M M L 9 L SP25 Are there any observed rare or endangered plant species? Specify. 8 End Thr SpC Rea 8 ECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY 1 Interspersion of open water and vegetation (open water types only) 1 M Vegetation between wetland and other habitat 1 Noteworthy wildlife or evidence (birds, mammals, amphibians, etc) 8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 1 WL provides habitat for: 1 WL provides habitat for: 1 Inter power or end support of the WL SpC Rea 8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 1 WL provides habitat for: 1 WL provides habitat for: 1 WL provides habitat for: 2 M Vegetal fish and wildlife species found in the wetland? 5 M Vetand part of contiguous upland or wetland: 5 M C Rea 6 Series observed or evidence seen (list) 1 WL provides habitat for: 2 M Vegetal fish and wildlife species found in the wetland? 8 M Vetand part of contiguous upland or wetland: 9 SpC Rea 8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 1 WL provides habitat for: 1 ML provides habitat for: 2 ML ML Provides habitat for: 3 ML Provides habitat for: 4							
Specific possible provided by the provided b	_						
6 Shoreline/streambank veg condition upslope of water level Wat ability to stabilize shoreline							
SF21 WL ability to stabilize shoreline							
SECTION NINE: PLANT COMMUNITY 1 Vegetation diversity	Artificial						
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SF22 Is the plant community unique or rare regionally or provincially? Yes	, Im, OAH,	, Ii, Sd,	E,,othe	er,			
SF22 Is the plant community unique or rare regionally or provincially? Yes	L						
SF24 Rate the overall integrity/quality of plant community? H M L							
SF25 Are there any observed rare or endangered plant species? Specify. End Thr SpC Real SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY							
SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY 1 Interspersion of open water and vegetation (open water types only) 1 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity 6 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians, etc) 8 Connected to permanent water (accessible to fish)? 8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 550ha 10-25ha 11 WL provides habitat for: 5726 Does wetland support fish/fish habitat? 5727 Rare or endangered fish/wildlife species found in the wetland? 5728 Overall fish and wildlife habitat quality H M L M M L N/A N N L N/A N N L N/A N N N N L N N N N N N N N							
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10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: SF26 Does wetland support fish/fish habitat? SF27 Rare or endangered fish/wildlife species found in the wetland? SF28 Overall fish and wildlife habitat quality SF30 Does wetland support fish/wildlife species found in the wetland? SF27 Rare or endangered fish/wildlife habitat quality SF28 Overall fish and wildlife habitat quality	Low	N/A					
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SF27 Rare or endangered fish/wildlife species found in the wetland? End Thr SpC Red SF28 Overall fish and wildlife habitat quality H	l Waterbirds	Mammals	Fish	R/E species			
SF28 Overall fish and wildlife habitat quality H M L							
	Red	Yellow	<i>S</i> 1	52	<i>S3</i>	N/A)	
SECTION ELEVEN: COMMUNITY USE/VALUE							
1 Describe community use VVCP,COPOPA,,AV_x_GBEHI	_,E,HI, WV_	, BO,HU	, PG, BP	P,F, E, R_	_, Other:		
SF29 Rate the wetland's community use/value							
1 Describe community use VVCP,CO,PO,PA,AV_x_,GBE,HI_	_,E,HI, WV_	_, BO,HU	_, PG, BP	P,F, E, R_	, Other:		

APPE	NDIX D: WL3 Nova Scotia Wetland Evaluation 1	echnique Fie	eld Data Sheet								
Proje	ct Name: Black Point Quarry	Evaluator: Sc	ott Burley		GPS Coordin	nates:	645076 E	x 5024059 N			
PID:3	5212497, 35212505, 35212521, 35212513, 35044056, 35214014, 35214022, 3521402	2 and 352139	990	Site Address: E	Black Point, G	uysborough C	ounty, NS				
Sourc	es and Dates of Mapping/Images: NS Wetlands Inventory (2012); NS Forest Inventory	(Current Fore	est Data - 2004);	Google Earth (2003)						
Evalu	ation Date: 04-Sep-14	Site Visit Date	e:	20-Aug-14	ļ						
Weat	her Conditions (past 48 hours): Sun and Clouds										
Seaso	nal Weather Conditions: Typical										
SECTI	ON ONE: WATERSHED CHARACTERISTICS										
1	Watershed Name (tertiary): 1EQ-SD	Size: 518	km²								
2	% Watershed Land Cover	For: 43	Nat: 36	Past/Hay: <1	Crop: <1	Urb/Com: 2	Road: <1	Other Dev: <1	(Gravel Pit	, Landfill, I	ndustrial
3	% Watershed WL Cover and by Class	Total: 10%	SM: <1	BO: 6	FE: 1	FM: 2	FS: 1	SS: 1	CP: <1	VP: Prese	ent
SF1	Watershed condition	Н	М	L							
SF2	Proportion of WL area in watershed & opportunity for floodwater detention	Н	M	L							
SECTI	ON TWO: WETLAND CHARACTERISTICS										
	,,	WL size: 0.	5 hectares		Landform: S	lope		Landscape Po	sition: Lotic	-Stream Co	onfined
Wate	r flow path: Throughflow	Wetland Orig	gin: Natural								
1	Water Regime	PF	SF	TF	SS (PS	RfT	IfT	AF		
2	# WL's within 30m project area	Total# 0	SM:	BO:	FE:	FM:	FS:	SS:	CP:	VP:	
3	Is WL part of complex	Yes (No								
4	% each wetland type in complex	SM:	BO:	FE: 100	FM:	FS:	SS:	CP:	VP:		
5	Is WL bordering or associated with a lake or pond?	bordering		within 100m		N/A		specify			
6	Standing water?	Yes	Avg Dep: 5-10		% Inundated	d: 5%	No				
7	Inlet or Outlet (circle all that apply)?	Inlet	Outle:								
8	Adjacent Upland Land Use within 100m (%)	For: 100	Nat:	PasHay:	Crop:	UrbCm:	Road:	Other Dev:			
9	Are there stressors in WL or WL buffer area? Circle primary stressor(s).	DD, CW,	. WcS, O/C,E	B,DP,F,	M, ES,NE	,DwP,					
		M,GC,A1	ΓV,DG,EA	, R,Rr,U/C	D,F,FA	, other (specif	fy):				
10	Hydrology Altered (circle all that apply)?	Ditching	Dams	Tiles	Culvert	Well	Diversion	Other Specify:			
SF3	Rate the general wetland condition/integrity	н	M	L							
SECTI	ON THREE: ADJACENT LAND CONDITION AND INTEGRITY										
1	Average width of adjacent naturalized buffer	>1000m									
	, ,	H >1	M 8-15	L <8							
3	Widths for wildlife habitat	H >1 0 0	M 15-100	L <15							
4	Adjacent area vegetation condition (list % in each category)	H 100%	M	L							
5	Adjacent area diversity and structure (list % in each category)	H 100%	M	L							
6	Adjacent Upland Slope (list % in each category)	Steep 80%	Mod 15%	Gentle 5%							
7	Adjacent land supports water quality	Yes	No	Specify:							
		Yes	No	Specify:							
SF4	Rate the overall condition and integrity land adjacent to wetland	H	M	L	is buffer rec	uired to mair	ntain red fl	ag functions of	wetland? I	f yes if no	
SECTI	ON FOUR: DOCUMENTED IMPORTANT FEATURES										
SF5	Is the WL a WSS?	Yes	(No								

SF6 Does the WL support commercial/recreational fish/shellfish?	Yes	(No						
SF7 Species of concern (Fed/Prov)? Specify.	End	Thr - SARA	SpC	Red	Yellow S1	S2	<i>S3</i>	(N/A)
SF8 Wetland has conservation/compensation agreements/activity?	Yes	No	specify:					
SF9 Wetland is calcerous fen, black ash or cedar swamp?	Yes	No						
SF10 Within Drinking Water Protected Area (designated watershed/wellfield)	Yes	No	specify:					
SF11 WL within a floodplain and upstream of or within of a populated area?	Yes	(No						
SF12 Fed/Prov/Municipal area of interest?	Yes	No	specify:					
SECTION FIVE: HYDROLOGIC CONDITION AND INTEGRITY								
1 Is WL source of stream or headwater(wc order 1 or 2)	Yes	No	Specify: sma	ll first order	stream flows through	wetland		
2 Is WL geographically isolated?	Yes	No	Specify:					
3 WL ability to maintain characteristic hydrologic regime	High		Med		Low			
4 Water Storage Depth (list % in each class)	>30cm	15-30cm	up to 15cm 5	5%	No ponding			
5 Signs of surface water retention observed?	SW_10_cm,	, WSL, WCD_	, WMcm, SM	cm, SD	, AD, ID, PMT, <i>F</i>	Ν, BT, AR_	_, Other:	
6 Describe observable/historical anthropogenic sediment delivery	Low		Med		High			
7 Disturbance of WL soils	Low		Med		High			
8 Predominant soils adjacent to WL	Sand		Silt/loam		Clay bedrock			
9 Capacity of WL to alter/retard flows	High		Med		Low			
10 Roughness coefficient for surface water flow path	High		Med		Low			
11 Strormwater/Wastewater/Agricultural runoff detention	High		Med		Low			
12 Water Source	Natural		Mostly natur	al	Partly altered	Controlle	ed	
13 Hydrology of tidal wetlands	Unrestricte	d	Reduced		Restricted	N/A		
14 Coastal storm surge	Yes	No						
SF13 WL hydrologic condition	Natural	Modified		Significa	ntly Modified			
SF14 WL important for maintaining stream flow?	(Yes)	No						
SF15 WL ability to detain surface water	High	Med	Low					
SECTION SIX: WATER QUALITY								
1 Strormwater/Wastewater/Agricultural runoff as water source?	High		Med		Low			
2 Nutrients/sediments from surrounding land	High		Med		Low			
3 Significant flood/stormwater attenuation	Yes	No						
4 Vegetation capacity to settle suspended sediments	High		Med		Low			
5 WL type /landscape position holds/filters runoff?	Yes	No						
SF16 Wetland improves water quality?	Yes	No						
SF17 Evidence of excess nutrient loading/contamination?	(low)	Med	High					
SF18 WL contributes to water quality in downstream resources	High	Med	(Low)					
SECTION SEVEN: GROUNDWATER INTERACTIONS								
1 Describe soils in wetland	Recharge		Discharge					
2 Land use / run off in subwatershed upstream	Recharge		Discharge					
3 Conditions of upland soils within 200m of wetland	Recharge)	Discharge					
4 Hydroperiod of wetland	Recharge		Discharge					
5 Describe inlet/outlet configuration	Recharge		Discharge					
6 Characterize topographic relief surrounding wetland	Recharge		Discharge					

SECTION BIRST: ShoRELINE STABILIZATION AND INTEGRITY SECTION BIRST: ShoRELINE STABILIZATION BIRST: ShoRELINE STAB	SECTION EIGHT: SHORELINE STABILIZATION AND INTEGRITY 1 Wetland fringing ocean/estuary/lake/pond/river/stream? 2 % cover of rooted vegetation in shallow water zone 3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour 4 Prevalence of strong-stemmed emerg. veg (shoreline marshes and fens only) 5 Describe shoreline erosion potential 6 Shoreline/streambank veg condition upslope of water level 5F21 WL ability to stabilize shoreline SECTION NINE: PLANT COMMUNITY 1 Vegetation diversity 1b Dominant plant species and % cover in the WL 3 Dominant Non-native or Invasive species and % cover 4 Vegetation Disturbance 5 Disturbance Types 7 Vegetative Integrity of plant community SF22 Is the plant community unique or rare regionally or provincially? SF23 Does the WL contain a diversity of plant communities H SF24 Rate the overall integrity/quality of plant community? E SF25 Are there any observed rare or endangered plant species? Specify.	es									
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11 WL provides habitat for: Amphibians Reptiles Waterfowl Waterbirds Mammals Fish R/E species	9 Fish species observed or evidence seen (list)			list:							
	10 Wetland part of contiguous upland or wetland:	50ha	25-50ha								
	11 WL provides habitat for:	mphibians	Reptiles	Waterfowl	Waterbirds	Mammals	Fish	R/E species			
SF26 Does wetland support fish/fish habitat? Yes No specify:	SF26 Does wetland support fish/fish habitat? Yes	es (No	specify:							
SF27 Rare or endangered fish/wildlife species found in the wetland? End Thr-SARA SpC Red Yellow S1 S2 S3 (V/A)	SF27 Rare or endangered fish/wildlife species found in the wetland?	nd	Thr-SARA	SpC	Red	Yellow	<i>S</i> 1	S2	<i>S3</i>	(N/A)	
SF28 Overall fish and wildlife habitat quality H M L	SF28 Overall fish and wildlife habitat quality		M	L							
SECTION ELEVEN: COMMUNITY USE/VALUE	SECTION ELEVEN: COMMUNITY USE/VALUE										
1 Describe community use VVCPCOPOPA,AV_x_GB,EHI, WV, BO,HU, PG, BP,F, E, R, Other:	1 Describe community use	V,CP,CC),PO,PA,,	AV_x_,GB,E_	_,HI, WV	, BO,HU,	. PG, BP_	_,F, E, R_	, Other:		
	SF29 Rate the wetland's community use/value		М	L)							

APPEI	NDIX D: WL4 Nova Scotia Wetland Evaluation T	echnique Fie	ld Data Sheet							
Projec	t Name: Black Point Quarry	Evaluator: Sc	ott Burley		GPS Coordin	nates:	645076 E	x 5024059 N		
PID:35	5212497, 35212505, 35212521, 35212513, 35044056, 35214014, 35214022, 3521402	2 and 352139	990	Site Address: E	Black Point, G	uysborough C	County, NS			
Sourc	es and Dates of Mapping/Images: NS Wetlands Inventory (2012); NS Forest Inventory	(Current For	est Data - 2004);	Google Earth (2	2003)					
Evalua	ation Date: 04-Sep-14	Site Visit Date	e:	20-Aug-14	1					
Weatl	ner Conditions (past 48 hours): Sun and Clouds									
Seaso	nal Weather Conditions: Typical									
SECTI	ON ONE: WATERSHED CHARACTERISTICS									
1	Watershed Name (tertiary): 1EQ-SD	Size: 518	km²							
2	% Watershed Land Cover	For: 43	Nat: 36	Past/Hay: <1	Crop: <1	Urb/Com: 2	Road: <1	Other Dev: <1	(Gravel Pit	, Landfill, Industrial
3	% Watershed WL Cover and by Class	Total: 10%	SM: <1	BO: 6	FE: 1	FM: 2	FS: 1	SS: 1	CP: <1	VP: Present
SF1	Watershed condition	Н	М	L						
SF2	Proportion of WL area in watershed & opportunity for floodwater detention	н (M	L						
SECTI	ON TWO: WETLAND CHARACTERISTICS									
Wetla	nd Type: Bog	WL size: 0.	2 hectares		Landform: B	Basin		Landscape Pos	ition: Terr	ene
Water	flow path: Isolated	Wetland Orig	gin: Natural							
1	Water Regime	PF	SF	TF	SS (PS	RfT	IfT	AF	
2	# WL's within 30m project area	Total# 0	SM:	BO:	FE:	FM:	FS:	SS:	CP:	VP:
3	Is WL part of complex	Yes (No							
4	% each wetland type in complex	SM:	BO: 100	FE:	FM:	FS:	SS:	CP:	VP:	
5	Is WL bordering or associated with a lake or pond?	bordering		within 100m		N/A		specify		
6	Standing water?	Yes	Avg Dep: 5-10		% Inundated	d:				
7	Inlet or Outlet (circle all that apply)?	Inlet	Outlet							
8	Adjacent Upland Land Use within 100m (%)	For: 100	Nat:	PasHay:	Crop:	UrbCm:	Road:	Other Dev:		
9	Are there stressors in WL or WL buffer area? Circle primary stressor(s).	DD, CW	, WcS, O/C,E	B,DP,F,	M, ES,NI	E,DwP,				
		M,GC,A ⁻	TV,DG,EA	, R,Rr,U/CI	D,F,FA	, other (speci	fy):			
10	Hydrology Altered (circle all that apply)?	Ditching	Dams	Tiles	Culvert	Well	Diversion	Other Specify:		
SF3	Rate the general wetland condition/integrity	Н	М	L						
SECTI	ON THREE: ADJACENT LAND CONDITION AND INTEGRITY									
1	Average width of adjacent naturalized buffer	>1000m	1							
2	. ,	H >1	M 8-15	L <8						
3	Widths for wildlife habitat	H >1 0 0	M 15-100	L <15						
	, , , , , , , , , , , , , , , , , , , ,	H 100%	M	L						
5	Adjacent area diversity and structure (list % in each category)	H 100%	M	L						
6	Adjacent Upland Slope (list % in each category)	Steep 40%	Mod 40%	Gentle 20%						
7	Adjacent land supports water quality	Yes	No	Specify:						
		Yes	No	Specify:						
SF4	Rate the overall condition and integrity land adjacent to wetland	\mathcal{H}	M	L	is buffer red	quired to mai	ntain red fl	ag functions of v	wetland? I	f yes if no
SECTI	ON FOUR: DOCUMENTED IMPORTANT FEATURES									
SF5	Is the WL a WSS?	Yes	No)							

SF6 Does the WL support commercial/recreational fish/shellfish?	Yes	No						
SF7 Species of concern (Fed/Prov)? Specify.	End	Thr - SARA	SpC	Red	Yellow S1	S2	<i>S3</i>	(N/A)
SF8 Wetland has conservation/compensation agreements/activity?	Yes	No	specify:					
SF9 Wetland is calcerous fen, black ash or cedar swamp?	Yes	No						
SF10 Within Drinking Water Protected Area (designated watershed/wellfield)	Yes	No	specify:					
SF11 WL within a floodplain and upstream of or within of a populated area?	Yes	No						
SF12 Fed/Prov/Municipal area of interest?	Yes	No	specify:					
SECTION FIVE: HYDROLOGIC CONDITION AND INTEGRITY								
1 Is WL source of stream or headwater(wc order 1 or 2)	Yes	No	Specify:					
2 Is WL geographically isolated?	Yes	No	Specify:					
3 WL ability to maintain characteristic hydrologic regime	High		Med		Low			
4 Water Storage Depth (list % in each class)	>30cm	15-30cm	up to 15cm		No ponding			
5 Signs of surface water retention observed?	SWcm, W	VSL, WCD,	WMcm, SM	_cm, SD, <i>I</i>		, BT, AR,	Other:	
6 Describe observable/historical anthropogenic sediment delivery	Low		Med		High			
7 Disturbance of WL soils	Low		Med		High			
8 Predominant soils adjacent to WL	Sand		Silt/loam		Clay bedrock			
9 Capacity of WL to alter/retard flows	High		Med		Low			
10 Roughness coefficient for surface water flow path	High		Med		Low			
11 Strormwater/Wastewater/Agricultural runoff detention	High		Med		Low			
12 Water Source	Natural		Mostly natu	ral	Partly altered	Controlle	ed	
13 Hydrology of tidal wetlands	Unrestricte	d	Reduced		Restricted	N/A		
14 Coastal storm surge	Yes	No						
SF13 WL hydrologic condition	Natural	Modified		Significa	ntly Modified			
SF14 WL important for maintaining stream flow?	Yes	No						
SF15 WL ability to detain surface water	High	Med	Low					
SECTION SIX: WATER QUALITY								
1 Strormwater/Wastewater/Agricultural runoff as water source?	High		Med		Low			
2 Nutrients/sediments from surrounding land	High		Med		Low			
3 Significant flood/stormwater attenuation	Yes	No						
4 Vegetation capacity to settle suspended sediments	High		Med		Low			
5 WL type /landscape position holds/filters runoff?	Yes	No						
SF16 Wetland improves water quality?	Yes	(No)						
SF17 Evidence of excess nutrient loading/contamination?	(low)	Med	High					
SF18 WL contributes to water quality in downstream resources	High	Med	Low					
SECTION SEVEN: GROUNDWATER INTERACTIONS								
1 Describe soils in wetland	Recharge		Discharge					
2 Land use / run off in subwatershed upstream	Recharge		Discharge)				
3 Conditions of upland soils within 200m of wetland	Recharge)	Discharge					
4 Hydroperiod of wetland	Recharge		Discharge					
5 Describe inlet/outlet configuration	Recharge		Discharge					
6 Characterize topographic relief surrounding wetland	Recharge		Discharge					

	SF19 WL serves as a recharge site	Yes	(No								
1 Wetland fringing occar/ostuary/lake/pond/inver/stream? 2 % Cover of rooted vegetablo in shallow water zone 4 Prevalence of strong streamed emerg. weg (shoreline marshes and fens only) 4 Prevalence of strong streamed emerg. weg (shoreline marshes and fens only) 5 Describe shoreline ensisting potential 6 Shoreline-pistreambank veg condition upslope of water level Cov. Med. 6 Shoreline-pistreambank veg condition upslope of water level Cov. Med. 7 Noteward vegetable of the strong streamed emerg. weg (shoreline marshes and fens only) 8 Describe shoreline ensisting upslope of water level Cov. Med. 8 High. Med. Cov. Med. 8 High. 8 Describe shore of Med. 8 High. Med. Cov. Med. 8 Describe shore of Med. 8 High. Med. Cov. Med. 8 Describe shore of Med. 8 High. Med. Cov. Med. 8 Describe shore of Med. 8 High. 8 High. Med. Cov. Med. 8 Describe shore of Med. 8 High. 8 High	SF20 WL serves as a discharge site	Yes	No								
2 \$ cover of rooted vegetation in shallow water zone	SECTION EIGHT: SHORELINE STABILIZATION AND INTEGRITY		_								
3 Avg. yee, WL width Nor shoreline/streambank & 2 m depth contour. 4 Prevalence of strong stemmed emerg, veg (shoreline marshes and fens only) 5 Describe shoreline erosion potential 6 Shoreline/streambank veg condition upslope of water level 1 Low Med High Med Low 7 Med High Med Low 8 Med High Med Low 8 Med High Med Low 9 Med Low Med Low Med High Med Low Me	1 Wetland fringing ocean/estuary/lake/pond/river/stream?	Yes	No	streamwidth >	4m	streamwidt	h<4m	WB Exposed	WB Shelt	ered	
4 Prevalence of strong-stemmed emerg, veg (shoreline marshes and fens only) High Med Low	2 % cover of rooted vegetation in shallow water zone	H >50%	M 10-50	L <10%							
5 Describe shoreline erosion potential 6 Shoreline/streambank veg condition upslope of water level Cow Med High Artificial 7521 Wc ability to stabilize shoreline 8 H M L N/A 8ECTION NINE: PLANT COMMUNITY 1 Vegetation diversity 1 Dominant plant species and % cover in the WL State and water of the WL Stat	3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour	H >10m	M 3-10	L <3m							
6 Shoreline/streambank veg condition upsiope of water level W M L N/A SECTION NINE: PLANT COMMUNITY 1 Vegetation diversity 1 Dominant plant species and % cover in the WL 3 Dominant Non-native or invasive species and % cover 4 Vegetation invariance 4 N M L Specify: % 5 Disturbance Types 5 Disturbance Types 6 Disturbance Types 7 Vegetative Integrity of plant community 7 Vegetative Integrity of plant community 8 Disturbance Types 8 Disturbance Types 9 Disturbance Types 1 Deminant Non-native or invasive species and % cover 1 Disturbance Types 2 Disturbance Types 2 Disturbance Types 2 Disturbance Types 2 Disturbance Types 3 Disturbance Types 4 Disturbance Types 5 Disturbance Type	4 Prevalence of strong-stemmed emerg. veg (shoreline marshes and fens only)	High	Med	Low							
M L N/A	5 Describe shoreline erosion potential	High	Med	Low							
SECTION NINE: PLANT COMMUNITY 1 Vegetation diversity 1 Dominant plant species and % cover in the WL 1 list: Placed mariana (70%)/Carex trisperma (40%)/ Malinanthenum trifolium (25%) 3 Dominant Non-native or Invasive species and % cover Yes (No specift; % 4 Vegetation Disturbance 5 Disturbance Types 6 List And Community Invalve or rare regionally or provincially? 7 Vegetative integrity of plant community 8 List And Community unique or rare regionally or provincially? 8 List But overall integrity/quality of plant community? 9 List But overall integrity of plant community? 9 List But overall integrity/quality of pla	6 Shoreline/streambank veg condition upslope of water level	Low	Med	High	Artificial						
1 Vegetation diversity	SF21 WL ability to stabilize shoreline	Н	М	L	N/A	•					
1b) Dominant plant species and % cover in the WL 3 Dominant Non-native or Invasive species and % cover 4 Vegetation Disturbance 4 Vegetation Disturbance 5 Disturbance Types 5 Disturbance Types 6 Disturbance Types 7 Vegetative Integrity of plant community 8 EVEX Interpret of the WL contain a diversity of plant community 8 Does the WL contain a diversity of plant community 8 Does the WL contain a diversity of plant community 9 Post Rate the overall integrity/quality of plant community 9 Post Rate the overall integrity/quality of plant community 1 Interspersion of open water and vegetation (open water types only) 1 Interspersion of open water and vegetation (open water water and vegetation verus open water 2 Interspersion of other wetlands in vicinity 4 Interspersion of other wetlands in vicinity 4 Interspersion of the wetlands and other habitat 5 Roteworthy wildlife or evidence (birds, mammals, amphibians, etc) 8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: 12 My Devention Species observed or evidence seen (list) 13 Vest (No Specify: 14 Species observed or evidence fish, wildlife species found in the wetland? 10 Wetland part of contiguous upland or wetland: 10 Vest (No Specify: 11 WL provides habitat for: 12 My Devention Specify: 13 Vest (No Specify: 14 Specify Vest (No Specify: 15 Specify Vest (No Specify: 16 Specify Vest (No Specify: 17 Specify Vest (No Specify: 18 Vest (No Specify: 19 Specify Vest (No Specify: 19 Specify Vest (No Specify: 19 Specify Vest (No Specify: 25 No Specify: 25 Specify Vest (No Specify: 25 No	SECTION NINE: PLANT COMMUNITY										
3 Dominant Non-native or Invasive species and % cover 4 Vegetation Disturbance H M L Specify type(s) below 5 Disturbance Types 7 Vegetative Integrity of plant community E H M L 5F22 Is the plant community unique or rare regionally or provincially? FF23 Does the W. contain a diversity of plant communities H M L 5F24 Rate the overall integrity/quality of plant community: FF25 Are there any observed are or endangered plant species? Specify. Better the overall integrity/quality of plant community? 1 Interspersion of open water and vegetation (open water types only) Secort or vegetation verus open water 2 Interspersion of other wetlands in vicinity H M L N/A 3 Wetland condition related to detritus H M L N/A 4 Interspersion of other wetlands in vicinity H M L Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) FF26 Reception of open vert water water (accessible to fish)? Exceptional High Med (ow) N/A Fish species observed or evidence seen (list) Ves (o) list: Diveland part of contiguous upland or wetlands: Description of open water and water (accessible to fish)? Fish species observed or evidence seen (list) Ves (o) list: Diveland part of contiguous upland or wetlands: Description of open water water (accessible to fish)? Fish species observed or evidence seen (list) Ves (o) list: Diveland part of contiguous upland or wetlands: Description of open water water (accessible to fish)? Fish species observed or evidence seen (list) Ves (verue) Fish species observed or evidence seen (list) Ves (verue) Fish species observed or evidence seen (list) Ves (verue) Fish species observed or evidence seen (list) Ves (verue) Fish species observed or evidence seen (list) Fish R/E species Fish and wildlife habitat quality H M L	1 Vegetation diversity	High	Med	Low							
4 Vegetation Disturbance 5 Disturbance Yipes 7 Vegetative Integrity of plant community E	1b Dominant plant species and % cover in the WL	list: Picea m	ariana (70%)/Ca	rex trisperma (4	0%)/ Mainan	themum trifo	lium (25%)	•	-		
Specific contents Spec	3 Dominant Non-native or Invasive species and % cover	Yes	No	specify: %							
7 Vegetative Integrity of plant community 7 Vegetative Integrity of plant community 8	4 Vegetation Disturbance	Н	M (L	specify type	(s) below					
Second	5 Disturbance Types	H,ATV	_,G,M,In	_, D/D, Im_	, OAH,	Ii, Sd	,E,,othe	r,			
SF23 Does the WL contain a diversity of plant communities ### M	7 Vegetative Integrity of plant community	E	Н	M	L						
SF23 Does the WL contain a diversity of plant communities ## M	SF22 Is the plant community unique or rare regionally or provincially?	Yes	no	specify:							
SF25 Are there any observed rare or endangered plant species? Specify. SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY 1 Interspersion of open water and vegetation (open water types only) 1 M	SF23 Does the WL contain a diversity of plant communities	Н		D							
SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY 1 Interspersion of open water and vegetation (open water types only) 1 Interspersion of open water and vegetation (open water types only) 2 Interspersion that best fits entire wetland 3 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity 6 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: 5F26 Does wetland support fish/fish habitat? 5F27 Rare or endangered fish/wildlife species found in the wetland? End Thr SARA 5PC Red Yellow 51 52 53 WA SPC SPC SPC SPC SPC SPC SPC SP	SF24 Rate the overall integrity/quality of plant community?	H	М	L							
1 Interspersion of open water and vegetation (open water types only) Mathematical Provides habitat for: Interspersion of open water and vegetation verus open water 100_%	SF25 Are there any observed rare or endangered plant species? Specify.	End	Thr	SpC	Red	Yellow	<i>5</i> 1	S2	S3	(N/A)	
1b % cover in vegetation verus open water 2 Interspersion that best fits entire wetland 3 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity 4 Interspersion of other wetlands in vicinity 6 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: 5F26 Does wetland support fish/fish habitat? Fish are or endangered fish/wildlife species found in the wetland? Find Thr-SARA SPC Red Yellow 51 S2 S3 W/A Fish species S9 Vellow 51 S2 S3 W/A Find Thr-SARA SPC Red Yellow 51 S2 S3 W/A Find Thr-SARA SPC Red Yellow 51 S2 S3 W/A	SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY										
2 Interspersion that best fits entire wetland 3 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity 4 Interspersion of other wetlands in vicinity 6 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians, etc) 8 Connected to permanent water (accessible to fish)? Exceptional High Med (ow N/A 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: SF26 Does wetland support fish/fish habitat? Yes (No) specify: SF27 Rare or endangered fish/wildlife species found in the wetland? End Thr-SARA SpC Red Yellow S1 S2 S3 M/A SF28 Overall fish and wildlife habitat quality H M L	1 Interspersion of open water and vegetation (open water types only)	Н	М (L							
Wetland condition related to detritus H M L V/A Interspersion of other wetlands in vicinity H M L Barriers/restriction between wetland and other habitat Ves No list: Connected to permanent water (accessible to fish)? Fish species observed or evidence seen (list) Wetland part of contiguous upland or wetland: Wetland part of contiguous upland or wetland: Wetland support fish/fish habitat? Wes No specify: Waterfowl Waterbirds Mammals Fish R/E species Fish R/E species SF27 Rare or endangered fish/wildlife species found in the wetland? H M M L V/A L V	1b % cover in vegetation verus open water	100%									
4 Interspersion of other wetlands in vicinity Barriers/restriction between wetland and other habitat Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) Exceptional High Med Low N/A Sconnected to permanent water (accessible to fish)? Exceptional High Med Low N/A Fish species observed or evidence seen (list) Wetland part of contiguous upland or wetland: Wetland part of contiguous upland or wetland: Multiprovides habitat for: Mamphibians Reptiles Waterfowl Waterbirds Mammals Fish R/E species	2 Interspersion that best fits entire wetland	Н	М	L	N/A						
6 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: 550 Does wetland support fish/fish habitat? 572 Rare or endangered fish/wildlife species found in the wetland? 6 Barriers/restriction between wetland and other habitat 1 Wes No Iist:	3 Wetland condition related to detritus	Н	М	L	N/A)						
7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: SF26 Does wetland support fish/fish habitat? SF27 Rare or endangered fish/wildlife species found in the wetland? Find Thr-SARA SPC Red Yellow S1 S2 S3 W/A S52 S3 W/A S72 S73 W/A S74 S75 Wetland part of contiguous upland or wetland: S75 S75 S76 S77 S77 S78 S78 S78 S78 S78	4 Interspersion of other wetlands in vicinity	Н	М	L		•					
8 Connected to permanent water (accessible to fish)? Fish species observed or evidence seen (list) Wetland part of contiguous upland or wetland: WL provides habitat for: Med Low N/A N/A	6 Barriers/restriction between wetland and other habitat		М	Н							
9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: SF26 Does wetland support fish/fish habitat? Fish R/E species	7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc)	Yes	No	list:							
10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: 4mphibians Reptiles Waterfowl Waterbirds Mammals Fish R/E species	8 Connected to permanent water (accessible to fish)?	Exceptional	High	Med	Low	N/A					
11 WL provides habitat for: SF26 Does wetland support fish/fish habitat? SF27 Rare or endangered fish/wildlife species found in the wetland? SF28 Overall fish and wildlife habitat quality Amphibians Reptiles Waterfowl Waterbirds Mammals Fish R/E species SF26 No specify: SF27 Rare or endangered fish/wildlife species found in the wetland? SF28 Overall fish and wildlife habitat quality Amphibians Reptiles Waterfowl Waterbirds Mammals Fish R/E species SF26 No specify: SF28 Overall fish and wildlife habitat quality	9 Fish species observed or evidence seen (list)	Yes	No	list:							
SF26 Does wetland support fish/fish habitat? SF27 Rare or endangered fish/wildlife species found in the wetland? SF28 Overall fish and wildlife habitat quality H M L	10 Wetland part of contiguous upland or wetland:	>50ha	25-50ha	10-25ha	<10h						
SF27 Rare or endangered fish/wildlife species found in the wetland? End Thr-SARA SpC Red Yellow S1 S2 S3 N/A SF28 Overall fish and wildlife habitat quality H M L	11 WL provides habitat for:	Amphibians	Reptiles	Waterfowl	Waterbirds	Mammals	Fish	R/E species			
SF28 Overall fish and wildlife habitat quality H M L	SF26 Does wetland support fish/fish habitat?	Yes	No	specify:							
	SF27 Rare or endangered fish/wildlife species found in the wetland?	End	Thr-SARA	SpC	Red	Yellow	<i>5</i> 1	52	S3	(N/A)	
SECTION ELEVEN: COMMUNITY USE/VALUE	SF28 Overall fish and wildlife habitat quality	Н	M	L							
	SECTION ELEVEN: COMMUNITY USE/VALUE										
1 Describe community use VV,CPCO,PO,PA,,AV,GB,E,HI, WV, BO,HU, PG, BP,F, E, R, Other:	1 Describe community use	VV .CP .0	CO ,PO ,PA	.AV .GB .E	.HI . WV	. BO .HU	. PG . BP	.F .E .R	. Other:		
SF29 Rate the wetland's community use/value H M L					_,,	,,	, . _,				

SF ratings highlighted in red indicate critical wetland functions or watershed conditions that are highly degraded. Whenever a wetland is found to have red-highlighted SFs the proponent

APPE	NDIX D: WL5 Nova Scotia Wetland Evaluation T	echnique Fie	ld Data Sheet							
Proje	ct Name: Black Point Quarry	Evaluator: So	ott Burley		GPS Coordina	ates:	644431 E	x 5024129 N		
PID:3	5212497, 35212505, 35212521, 35212513, 35044056, 35214014, 35214022, 3521402	2 and 35213	990	Site Address: E	Black Point, Gu	ıysborough (County, NS			
Sourc	es and Dates of Mapping/Images: NS Wetlands Inventory (2012); NS Forest Inventory	(Current For	est Data - 2004);	Google Earth (2	2003)					
Evalu	ation Date: 04-Sep-14	Site Visit Dat	e:	20-Aug-14						
Weat	her Conditions (past 48 hours): Sun and Clouds									
Seaso	onal Weather Conditions: Typical									
SECT	ON ONE: WATERSHED CHARACTERISTICS									
1	Watershed Name (tertiary): 1EQ-SD	Size: 518	km²							
2	% Watershed Land Cover	For: 43	Nat: 36	Past/Hay: <1	Crop: <1	Urb/Com: 2	Road: <1	Other Dev: <1	(Gravel Pit	, Landfill, Industrial
3	% Watershed WL Cover and by Class	Total: 10%	SM: <1	BO: 6	FE: 1	FM: 2	FS: 1	SS: 1	CP: <1	VP: Present
SF1	Watershed condition	Н								
SF2	Proportion of WL area in watershed & opportunity for floodwater detention	н (M)	L						
SECT	ON TWO: WETLAND CHARACTERISTICS									
Wetla	and Type: Fen	WL size: 0.	.5 hectares		Landform: SI	оре		Landscape Po	sition: Lotic	Stream-Confined
Wate	r flow path: Throughflow	Wetland Ori	gin: Natural							
1	Water Regime	PF	SF	TF	ss (PS	RfT	IfT	AF	
2	# WL's within 30m project area	Total# 0	SM:	BO:	FE:	FM:	FS:	SS:	CP:	VP:
3	Is WL part of complex	Yes (No							
4	% each wetland type in complex	SM:	BO:	FE: 100	FM:	FS:	SS:	CP:	VP:	
5	Is WL bordering or associated with a lake or pond?	bordering		within 100m		N/A		specify		
6	Standing water?	Yes	Avg Dep: 5-10		% Inundated	:				
7	Inlet or Outlet (circle all that apply)?	Inlet	Outle							
8	Adjacent Upland Land Use within 100m (%)	For: 90	Nat: 10	PasHay:	Crop:	UrbCm:	Road:	Other Dev:		
9	Are there stressors in WL or WL buffer area? Circle primary stressor(s).	DD, CW	, WcS, O/C,E	B,DP,F,	M, ES,NE	,DwP,				
		M,GC,A	TV,DG,EA,	R,Rr,U/CI	D,F,FA,	other (speci	ify):			
10	Hydrology Altered (circle all that apply)?	Ditching	Dams	Tiles	Culvert	Well	Diversion	Other Specify		
SF3	Rate the general wetland condition/integrity	H	M	L						
SECT	ON THREE: ADJACENT LAND CONDITION AND INTEGRITY									
1	Average width of adjacent naturalized buffer	>1000m	n e							
2	Widths for water quality	H >1	M 8-15	L <8						
3	Widths for wildlife habitat	H >1 0 0	M 15-100	L <15						
4	Adjacent area vegetation condition (list % in each category)	H 100%	М	L						
5	Adjacent area diversity and structure (list % in each category)	H 100%	М	L						
6	Adjacent Upland Slope (list % in each category)	Steep 70%	Mod 25%	Gentle 5%						
7	Adjacent land supports water quality	Yes	No	Specify:						
8	Adjacent land supports wildlife habitat	Yes	No	Specify:						
SF4	Rate the overall condition and integrity land adjacent to wetland	H	М	L	is buffer req	uired to mai	ntain red fla	ag functions of	wetland? I	f yes if no
SECT	ON FOUR: DOCUMENTED IMPORTANT FEATURES									
CEE	Is the WL a WSS?	Yes	No)							

SF6 Does the WL support commercial/recreational fish/shellfish?	Yes	No						
SF7 Species of concern (Fed/Prov)? Specify.	End	Thr - SARA	SpC	Red	Yellow S1	S2	<i>S3</i>	(N/A)
SF8 Wetland has conservation/compensation agreements/activity?	Yes	(No	specify:					
SF9 Wetland is calcerous fen, black ash or cedar swamp?	Yes	No						
SF10 Within Drinking Water Protected Area (designated watershed/wellfield)	Yes	No	specify:					
SF11 WL within a floodplain and upstream of or within of a populated area?	Yes	No						
SF12 Fed/Prov/Municipal area of interest?	Yes	No	specify:					
SECTION FIVE: HYDROLOGIC CONDITION AND INTEGRITY								
1 Is WL source of stream or headwater(wc order 1 or 2)	Yes	No	Specify:					
2 Is WL geographically isolated?	Yes	No	Specify:					
3 WL ability to maintain characteristic hydrologic regime	High		Med		Low			
4 Water Storage Depth (list % in each class)	>30cm	15-30cm	up to 15cm		No ponding			
5 Signs of surface water retention observed?	SWcm, W	VSL, WCD,	WMcm, SM	_cm, SD, <i>F</i>		, BT, AR,	Other:	
6 Describe observable/historical anthropogenic sediment delivery	Low		Med		High			
7 Disturbance of WL soils	Low		Med		High			
8 Predominant soils adjacent to WL	Sand		Silt/loam		Clay bedrock			
9 Capacity of WL to alter/retard flows	High		Med		Low			
10 Roughness coefficient for surface water flow path	High		Med		Low			
11 Strormwater/Wastewater/Agricultural runoff detention	High		Med		Low			
12 Water Source	Natural		Mostly natu	ral	Partly altered	Controlle	ed	
13 Hydrology of tidal wetlands	Unrestricte	d	Reduced		Restricted	N/A		
14 Coastal storm surge	Yes	No						
SF13 WL hydrologic condition	Natural	Modified		Significa	ntly Modified			
SF14 WL important for maintaining stream flow?	Yes	No						
SF15 WL ability to detain surface water	High	(Med)	Low					
SECTION SIX: WATER QUALITY								
1 Strormwater/Wastewater/Agricultural runoff as water source?	High		Med		Low			
2 Nutrients/sediments from surrounding land	High		Med		Low			
3 Significant flood/stormwater attenuation	Yes	No						
4 Vegetation capacity to settle suspended sediments	High		Med		Low			
5 WL type /landscape position holds/filters runoff?	Yes	No						
SF16 Wetland improves water quality?	Yes	No						
SF17 Evidence of excess nutrient loading/contamination?	(low)	Med	High					
SF18 WL contributes to water quality in downstream resources	High	Med	Low					
SECTION SEVEN: GROUNDWATER INTERACTIONS								
1 Describe soils in wetland	Recharge		Discharge					
2 Land use / run off in subwatershed upstream	Recharge		Discharge)				
3 Conditions of upland soils within 200m of wetland	Recharge)	Discharge					
4 Hydroperiod of wetland	Recharge		Discharge					
5 Describe inlet/outlet configuration	Recharge		Discharge					
6 Characterize topographic relief surrounding wetland	Recharge		Discharge					

SF19 WL serves as a recharge site	Yes	(No								
SF20 WL serves as a discharge site	Yes	No								
SECTION EIGHT: SHORELINE STABILIZATION AND INTEGRITY										
1 Wetland fringing ocean/estuary/lake/pond/river/stream?	Yes	No	streamwidth >	4m	streamwidth	n<4m	WB Exposed	WB Shelt	ered	
2 % cover of rooted vegetation in shallow water zone	H >50%	M 10-50	L <10%							
3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour	H >10m	M 3-10	L <3m							
4 Prevalence of strong-stemmed emerg. veg (shoreline marshes and fens only)	High	Med	Low							
5 Describe shoreline erosion potential	High	Med	Low							
6 Shoreline/streambank veg condition upslope of water level	Low	Med	High	Artificial						
SF21 WL ability to stabilize shoreline	H	М	L	N/A						
SECTION NINE: PLANT COMMUNITY										
1 Vegetation diversity	High	Med	Low							
1b Dominant plant species and % cover in the WL	list: <i>Illex glal</i>	bra (20%)/Osmu	nda cinnamome	a (20%)/ Pice	a mariana (10	0%)			•	
3 Dominant Non-native or Invasive species and % cover	Yes	No	specify: %							
4 Vegetation Disturbance	Н	M	L	specify type	(s) below					
5 Disturbance Types	H,ATV	_,G,M,In	, D/D, lm_	, OAH,	. Ii, Sd,	E,,othe	`,			
7 Vegetative Integrity of plant community	E	Н	М	L						
SF22 Is the plant community unique or rare regionally or provincially?	Yes	no	specify:							
SF23 Does the WL contain a diversity of plant communities	н (M	L							
SF24 Rate the overall integrity/quality of plant community?	H	М	L							
SF25 Are there any observed rare or endangered plant species? Specify.	End	Thr	SpC	Red	Yellow	<i>S</i> 1	<i>S2</i>	<i>S3</i>	(V/A)	
SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY										
1 Interspersion of open water and vegetation (open water types only)	Н	М (L							
1b % cover in vegetation verus open water	100%									
2 Interspersion that best fits entire wetland	Н	M	L	N/A						
3 Wetland condition related to detritus	Н	M	L	N/A						
4 Interspersion of other wetlands in vicinity	Н (М	L							
6 Barriers/restriction between wetland and other habitat	L	М	Н							
7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc)	Yes	No	list: Passerines	, Wood frog,	Brown Snake					
8 Connected to permanent water (accessible to fish)?	Exceptional	High	Med	Low	N/A					
9 Fish species observed or evidence seen (list)	Yes	No	list:							
10 Wetland part of contiguous upland or wetland:	>50ha	25-50ha	10-25ha	<10h						
11 WL provides habitat for:	Amphibians	Reptiles	Waterfowl	Waterbirds	Mammals	Fish	R/E species			
SF26 Does wetland support fish/fish habitat?	Yes	No	specify:							
SF27 Rare or endangered fish/wildlife species found in the wetland?	End	Thr-SARA	SpC	Red	Yellow	S1	S2	<i>S3</i>	(N/A)	
SF28 Overall fish and wildlife habitat quality	H (M	L							
SECTION ELEVEN: COMMUNITY USE/VALUE										
1 Describe community use	VV,CP,0	CO,PO,PA,	,,AV_x_,GB,E_	_,HI, WV_	_, BO,HU_	_, PG, BP	,F, E, R_	_, Other:		
SF29 Rate the wetland's community use/value	Н	M (L				_			
	VV,CP,0			,HI, WV_ 	_, BO,HU	_, PG, BP_	,F, E, R	_, Other:		

SF ratings highlighted in red indicate critical wetland functions or watershed conditions that are highly degraded. Whenever a wetland is found to have red-highlighted SFs the proponent

APPE	NDIX D: WL6 Nova Scotia Wetland Evaluation To	echnique Fiel	d Data Sheet								
Projec	t Name: Black Point Quarry	Evaluator: Sco	ott Burley		GPS Coordin	ates:	644737 E	x 5024077 N			
PID:3	5212497, 35212505, 35212521, 35212513, 35044056, 35214014, 35214022, 3521402	2 and 352139	90	Site Address: B	Black Point, Gu	uysborough C	ounty, NS				
Sourc	es and Dates of Mapping/Images: NS Wetlands Inventory (2012); NS Forest Inventory	(Current Fore	est Data - 2004);	Google Earth (2	2003)						
Evalua	ation Date: 04-Sep-14	Site Visit Date	: :	20-Aug-14							
Weat	ner Conditions (past 48 hours): Sun and Clouds										
	nal Weather Conditions: Typical										
SECTI	ON ONE: WATERSHED CHARACTERISTICS										
1	Watershed Name (tertiary): 1EQ-SD	Size: 518	km²								
2	% Watershed Land Cover	For: 43	Nat: 36	Past/Hay: <1	Crop: <1	Urb/Com: 2	Road: <1	Other Dev: <1	. (Gravel Pit	., Landfill, Inc	lustrial
3	% Watershed WL Cover and by Class	Total: 10%	SM: <1	BO: 6	FE: 1	FM: 2	FS: 1	SS: 1	CP: <1	VP: Presen	t
SF1	Watershed condition	Н	М	L							
SF2	Proportion of WL area in watershed & opportunity for floodwater detention	н (M	Ĺ							
SECTI	ON TWO: WETLAND CHARACTERISTICS										
Wetla	nd Type: Bog	WL size: 0.3	3 hectares		Landform: B	asin		Landscape Po	sition: Terr	ene outflow	
Wate	flow path: Outflow	Wetland Orig	in: Natural								
1	Water Regime	PF	SF	TF	SS (PS	RfT	IfT	AF		
2	# WL's within 30m project area	Total# 0	SM:	BO:	FE:	FM:	FS:	SS:	CP:	VP:	
3	Is WL part of complex	Yes (No								
4	% each wetland type in complex	SM:	BO: 100	FE:	FM:	FS:	SS:	CP:	VP:		
5	Is WL bordering or associated with a lake or pond?	oordering		within 100m		N/A		specify			
6	Standing water?	Yes	Avg Dep: 5-10		% Inundated	l:					
	11 77	nlet	Outlet								
8	Adjacent Upland Land Use within 100m (%)	For: 90	Nat: 10	PasHay:	Crop:	UrbCm:	Road:	Other Dev:			
9			WcS, O/C,E			,DwP,					
			V,DG,EA,		•	, other (speci	-	_			
	,	Ditching	Dams	Tiles	Culvert	Well	Diversion	Other Specify			
SF3	Rate the general wetland condition/integrity	H)	М	L							
	ON THREE: ADJACENT LAND CONDITION AND INTEGRITY										
	Average width of adjacent naturalized buffer	_>1000m			-						
	· · ·	H >1	M 8-15	L <8							
	<u> </u>	H >100	M 15-100	L <15							
	, , , , , , , , , , , , , , , , , , , ,	H 100%	М	L							
		H 100%	M	L							
		$\overline{}$		Gentle 5%							
		Yes		Specify:							
		Yes		Specify:	_						_
	Rate the overall condition and integrity land adjacent to wetland	''	М	L	is buffer req	uired to mair	ntain red fla	ag functions of	wetland?	f yes if no	<u> </u>
	ON FOUR: DOCUMENTED IMPORTANT FEATURES										
SF5	Is the WL a WSS?	Yes	No								

SF6 Does the WL support commercial/recreational fish/shellfish?	Yes	(No	\neg					
SF7 Species of concern (Fed/Prov)? Specify.	End	Thr - SARA	SpC	Red	Yellow S1	S2	<i>S3</i>	(N/A)
SF8 Wetland has conservation/compensation agreements/activity?	Yes	No	specify:					
SF9 Wetland is calcerous fen, black ash or cedar swamp?	Yes	No						
SF10 Within Drinking Water Protected Area (designated watershed/wellfield)	Yes	No	specify:					
SF11 WL within a floodplain and upstream of or within of a populated area?	Yes	(No						
SF12 Fed/Prov/Municipal area of interest?	Yes	No	specify:					
SECTION FIVE: HYDROLOGIC CONDITION AND INTEGRITY								
1 Is WL source of stream or headwater(wc order 1 or 2)	(Yes)	No	Specify: Sma	ll outlet stre	eam at east and west er	nd of wetlands		
2 Is WL geographically isolated?	Yes	No	Specify:					
3 WL ability to maintain characteristic hydrologic regime	High		Med		Low			
4 Water Storage Depth (list % in each class)	>30cm	15-30cm	up to 15cm		No ponding			
5 Signs of surface water retention observed?	SWcm, W	VSL, WCD,	WMcm, SM	cm, SD, <i>A</i>		_, BT, AR,	Other:	
6 Describe observable/historical anthropogenic sediment delivery	Low		Med		High			
7 Disturbance of WL soils	Low		Med		High			
8 Predominant soils adjacent to WL	Sand		Silt/loam		Clay bedrock			
9 Capacity of WL to alter/retard flows	High		Med		Low			
10 Roughness coefficient for surface water flow path	High		Med		Low			
11 Strormwater/Wastewater/Agricultural runoff detention	High		Med		Low			
12 Water Source	Natural		Mostly natur	al	Partly altered	Controlle	ed	
13 Hydrology of tidal wetlands	Unrestricte	d	Reduced		Restricted	N/A		
14 Coastal storm surge	Yes	No						
SF13 WL hydrologic condition	Natural	Modified		Significa	ntly Modified			
SF14 WL important for maintaining stream flow?	Yes	No						
SF15 WL ability to detain surface water	High	Med	Low					
SECTION SIX: WATER QUALITY								
1 Strormwater/Wastewater/Agricultural runoff as water source?	High		Med		Low			
2 Nutrients/sediments from surrounding land	High		Med		Low			
3 Significant flood/stormwater attenuation	Yes	No						
4 Vegetation capacity to settle suspended sediments	High		Med		Low			
5 WL type /landscape position holds/filters runoff?	Yes	No						
SF16 Wetland improves water quality?	Yes	No						
SF17 Evidence of excess nutrient loading/contamination?	(Low)	Med	High					
SF18 WL contributes to water quality in downstream resources	High	Med	(Low)					
SECTION SEVEN: GROUNDWATER INTERACTIONS								
1 Describe soils in wetland	Recharge		Discharge					
2 Land use / run off in subwatershed upstream	Recharge		Discharge					
3 Conditions of upland soils within 200m of wetland	Recharge)	Discharge					
4 Hydroperiod of wetland	Recharge		Discharge					
5 Describe inlet/outlet configuration	Recharge		Discharge					
6 Characterize topographic relief surrounding wetland	Recharge		Discharge					

SECTION BIRST: ShorELINE STABULATION AND INTEGRITY ShorELINE STABULATION BIRST: ShorELINE STABULATION AND INTEGRITY ShorELINE STABULATION BIRST: ShorELINE STABULATIO	F19 WL serves as a recharge site	Yes	No								
Section Sect	F20 WL serves as a discharge site	Yes	No								
2 St. Cover of rooted vegetation in shallow water zone	ECTION EIGHT: SHORELINE STABILIZATION AND INTEGRITY										
A year year. W.L. width befur shoreline/streambank & 2 m depth contour H > 10m M 3-10 L < 3m	1 Wetland fringing ocean/estuary/lake/pond/river/stream?	Yes	No	streamwidth >	>4m	streamwic	lth<4m	WB Exposed	WB She	eltered	
4 Prevalence of strong-stemmed emerg, veg (shoreline marshes and fens only) 5 Describe shoreline erosion potential 6 Shoreline/streambank veg condition upslope of water level Low Med High Med Low 5 SP21 WL ability to stabilize shoreline 5 F272 WL ability to stabilize shoreline 5 ECTION INIES PLANT COMMUNITY 1 Vegetation diversity 1 Degetation diversity 1 Degetation diversity 4 Vegetation Disturbance of unsalve species and % cover in the WL list. Mainanthemum trifolium (20%)/Gaylussocia baccota (10%)/ Eriophorum virginicum (10%) 3 Dominant plant species and % cover in the WL list. Mainanthemum trifolium (20%)/Gaylussocia baccota (10%)/ Eriophorum virginicum (10%) 3 Dominant Non-native or Invasive species and % cover 4 Vegetation Disturbance 4 H M L specify type(s) below 5 Disturbance yes No specify: 7 Vegetative Integrity of plant community E H M L Specify type(s) below 5 Disturbance yes no diversity of plant community E H M L Specify: 5 F22 A Rate the overall integrity/quality of plant community? F3 A Rate the overall integrity/quality of plant community? 1 Interspersion of open water and vegetation (open water types only) 1 Interspersion of open water and vegetation (open water types only) 1 Interspersion of open water and vegetation (open water types only) 4 M L N/A F3 Describe the WL control and Albust Health and No INTEGRITY 1 Interspersion of open water and vegetation (open water types only) 4 M L N/A B Section Test: F15H AND WILDIEF HaBITTA TAID INTEGRITY 1 Interspersion of open water and vegetation (open water types only) 4 M L N/A B Section Test: F15H AND WILDIEF HaBITTA TAID INTEGRITY 1 Interspersion of other wetlands in vicinity 4 Interspersion of other wetlands in vicinity 5 B Section Test: F15H AND WILDIEF HaBITTA TAID INTEGRITY 1 Interspersion of other wetlands in vicinity 5 B Section Test: F15H AND WILDIEF HaBITTA This province in the best fits entire wetland and other habitat L M M L N/A 1 Interspersion of other wetlands in vicinity 5 B Section Test: F15H AN	2 % cover of rooted vegetation in shallow water zone	H >50%	M 10-50	L <10%							
Specific storeline erosion potential High Med Low	3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour	H >10m	M 3-10	L <3m							
G Shoreline/streambank veg condition upslope of water level Low Med High Artificial SF21 W ability to stabilize shoreline H M L N/A	4 Prevalence of strong-stemmed emerg. veg (shoreline marshes and fens only)	High	Med	Low							
M L N/A	5 Describe shoreline erosion potential	High	Med	Low							
SECTION NINE: PLANT COMMUNITY 1 Vegetation diversity High Med Low	6 Shoreline/streambank veg condition upslope of water level	Low	Med	High	Artificial						
1 Vegetation diversity	F21 WL ability to stabilize shoreline	Н	М	L	N/A						
15 Dominant plant species and % cover in the WL	ECTION NINE: PLANT COMMUNITY										
3 Dominant Non-native or Invasive species and % cover 4 Vegetation Disturbance 4 Vegetation Disturbance 5 Disturbance Types 7 Vegetative Integrity of plant community F522 Is the plant community unique or rare regionally or provincially? F523 Does the WI. contain a diversity of plant communities F524 Rate the overall integrity/quality of plant community? F525 Are there any observed rare or endangered plant species? Specify. F526 Are there any observed rare or endangered plant species? Specify. F527 Interspersion of open water and vegetation (open water types only) 1b % cover in vegetation verus open water 2 Interspersion that best fits entire wetland 3 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity 4 Interspersion of other wetlands in vicinity 4 Interspersion of between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 10 Lyprovides habitat for: Waterfowl Waterbirds Waterbirds Waterfowl Waterbirds Waterbirds Waterfowl Waterbirds Waterbirds Waterbirds Waterbirds Waterbirds Waterbirds	1 Vegetation diversity	High	Med	Low							
4 Vegetation Disturbance H	1b Dominant plant species and % cover in the WL	list: Mainan	themum trifoliu	ım (20%)/Gayluss	sacia baccati	a (10%)/ Erio	phorum vir	ginicum (10%)	-		
S Disturbance Types	3 Dominant Non-native or Invasive species and % cover	Yes	No	specify: %							
7 Vegetative Integrity of plant community E H M L SF22 Is the plant community unique or rare regionally or provincially? Yes (no) specify: SF23 Does the WL contain a diversity of plant communities H M L SF24 Rate the overall integrity/quality of plant community? H M L SF25 Are there any observed rare or endangered plant species? Specify. SECION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY 1 Interspersion of open water and vegetation (open water types only) 1 Wetland condition related to detritus H M L M L N/A Wetland condition related to detritus H M L N/A Interspersion of other wetlands in vicinity 6 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? Fish species observed or evidence seen (list) Vest No list: SSON 2 SA WA L M L N/A L N/A Interspersion of other wetland and other habitat L M H M L Wetland part of contiguous upland or wetland: SSONa 25-50ha 10-25ha 10-10 Weterfowl Waterbirds Mammals Fish R/E species	4 Vegetation Disturbance	Н	М		specify typ	e(s) below					
SF22 Is the plant community unique or rare regionally or provincially? Yes no specify:	5 Disturbance Types	H,ATV_	_,G,,M,	ln, D/D, lm_	, OAH	_, Ii, Sd	_,E,,oth	ier,			
SF23 Does the WL contain a diversity of plant communities H M L	7 Vegetative Integrity of plant community	(E)	Н	M	L						
SF24 Rate the overall integrity/quality of plant community?	F22 Is the plant community unique or rare regionally or provincially?	Yes	no	specify:							
SF25 Are there any observed rare or endangered plant species? Specify. SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY 1 Interspersion of open water and vegetation (open water types only) 1 Interspersion that best fits entire wetland 3 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 2 S3 (V/A) 8 CRed Yellow S1 S2 S3 (V/A) 8 L N/A L N/A L N/A L N/A L N/A H M L N/A Fish species observed or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? Fish species observed or evidence seen (list) Yes NO Iist: 10 Wetland part of contiguous upland or wetland: 250ha 25-50ha 10-25ha 4mphibians Reptiles Waterfowl Waterbirds Mammals Fish R/E species	F23 Does the WL contain a diversity of plant communities	Н	M								
SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY 1 Interspersion of open water and vegetation (open water types only) 1 Interspersion of open water and vegetation (open water types only) 2 Interspersion that best fits entire wetland 3 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity 4 Interspersion of other wetlands in vicinity 6 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians, etc) 8 Connected to permanent water (accessible to fish)? 8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) Yes No list: 10 Wetland part of contiguous upland or wetland: > Soha 25-50ha 10-25ha (10h) R/E species	F24 Rate the overall integrity/quality of plant community?	(H)	М	L							
1 Interspersion of open water and vegetation (open water types only) 1b % cover in vegetation verus open water 2 Interspersion that best fits entire wetland 3 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity 6 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians, etc) 8 Connected to permanent water (accessible to fish)? Exceptional High Med (ow N/A) 9 Fish species observed or evidence seen (list) Yes No list: 10 Wetland part of contiguous upland or wetland: 2 Interspersion of open water and vegetation (open water types only). H M L N/A L N/A L N/A H H M L W/A L W/A H H M M L W/A L W/A H M H M M L W/A Itis: Passerines, Wood frog, Passerines No list: Passerines, Wood frog, Passerines No list: 10 Wetland part of contiguous upland or wetland: > 50ha 25-50ha 10-25ha 10h	F25 Are there any observed rare or endangered plant species? Specify.	End	Thr	SpC	Red	Yellow	51	S2	<i>S3</i>	(N/A)	
1b % cover in vegetation verus open water 2 Interspersion that best fits entire wetland 3 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity 4 Interspersion of other wetlands in vicinity 5 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians, etc) 8 Connected to permanent water (accessible to fish)? Fish species observed or evidence seen (list) 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: M	ECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY										
2 Interspersion that best fits entire wetland 3 Wetland condition related to detritus H M L N/A 4 Interspersion of other wetlands in vicinity H M L 6 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? Exceptional High Med Low N/A 9 Fish species observed or evidence seen (list) Yes No list: 10 Wetland part of contiguous upland or wetland: >50ha 25-50ha 10-25ha (10h) 11 WL provides habitat for: Waterfowl Waterbirds Mammals Fish R/E species	1 Interspersion of open water and vegetation (open water types only)	Н	M								
3 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity 5 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: H M L N/A H H M L N/A I L N/A M H M H M H M H M H M H M H M	b % cover in vegetation verus open water	100%									
4 Interspersion of other wetlands in vicinity 6 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? Exceptional High Med Low N/A 9 Fish species observed or evidence seen (list) Yes No list: 10 Wetland part of contiguous upland or wetland: >50ha 25-50ha 10-25ha 10-25ha Mammals Fish R/E species R/E species	2 Interspersion that best fits entire wetland	Н	М		N/A						
6 Barriers/restriction between wetland and other habitat L M H 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? Exceptional High Med Low N/A 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: Amphibians Reptiles Waterfowl Waterbirds Mammals Fish R/E species	3 Wetland condition related to detritus	Н	М	L	N/A						
7 Noteworthy wildlife or evidence (birds, mammals, amphibians, etc) 8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: No list: Passerines, Wood frog, Passerines Med Low N/A Iist: No list: Passerines wood frog, Passerines No N	4 Interspersion of other wetlands in vicinity	Н (M	L							
8 Connected to permanent water (accessible to fish)? Exceptional High Med Low N/A 9 Fish species observed or evidence seen (list) Yes No list: 10 Wetland part of contiguous upland or wetland: >50ha 25-50ha 10-25ha <10h	6 Barriers/restriction between wetland and other habitat		М	Н							
9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: Yes No Iist: 25-50ha 25-50ha 10-25ha Waterfowl Waterfowl Waterbirds Mammals Fish R/E species	7 Noteworthy wildlife or evidence (birds, mammals, amphibians, etc)	Yes	No	list: Passerines	s, Wood frog	g, Passerines					
10 Wetland part of contiguous upland or wetland: >50ha 25-50ha 10-25ha <10h3	8 Connected to permanent water (accessible to fish)?	Exceptional	High	Med	Low	N/A					
11 WL provides habitat for: Amphibians Reptiles Waterfowl Waterbirds Mammals Fish R/E species	9 Fish species observed or evidence seen (list)	Yes	No	list:							
	10 Wetland part of contiguous upland or wetland:	>50ha	25-50ha	10-25ha							
	11 WL provides habitat for:	Amphibians	Reptiles	Waterfowl	Waterbirds	Mammals	Fish	R/E species			
SF26 Does wetland support fish/fish habitat? Yes No specify:	F26 Does wetland support fish/fish habitat?	Yes	No	specify:							
SF27 Rare or endangered fish/wildlife species found in the wetland? End Thr-SARA SpC Red Yellow S1 S2 S3 (V/A)	F27 Rare or endangered fish/wildlife species found in the wetland?	End	Thr-SARA	SpC	Red	Yellow	51	S2	<i>S3</i>	(N/A)	
SF28 Overall fish and wildlife habitat quality H M L	F28 Overall fish and wildlife habitat quality	Н	M	L							
SECTION ELEVEN: COMMUNITY USE/VALUE	ECTION ELEVEN: COMMUNITY USE/VALUE										
1 Describe community use VVCPCOPOPA,AVGBEHI, WV, BO,HU, PG, BP,F, E, R, Other: SF29 Rate the wetland's community use/value H M L	1 Describe community use										
SF29 Rate the wetland's community use/value H M (L)	1 Describe community use	VV,CP,(CO,PO,PA_	_,,AV,GB,E_	_,HI, WV_	_, BO,HU_	_, PG, BI	P,F, E, R	, Other:		

APPE	NDIX D: WL7 Nova Scotia Wetland Eva	luation Technique Fie	eld Data Sheet							
Proje	ct Name: Black Point Quarry	Evaluator: So	cott Burley		GPS Coordi	inates:	644845 E	x 5024349 N		
PID:3	5212497, 35212505, 35212521, 35212513, 35044056, 35214014, 35214022,	35214022 and 35213	990	Site Address: I	Black Point, (Guysborough C	County, NS			
Sourc	ces and Dates of Mapping/Images: NS Wetlands Inventory (2012); NS Forest I	nventory (Current For	rest Data - 2004); Google Earth (2003)					
Evalu	oation Date: 04	I-Sep-14 Site Visit Dat	te:	20-Aug-14	1					
Weat	ther Conditions (past 48 hours): Sun and Clouds									
Seaso	onal Weather Conditions: Typical									
SECTI	ION ONE: WATERSHED CHARACTERISTICS									
1	Watershed Name (tertiary): 1EQ-SD	Size: 518	km²							
	% Watershed Land Cover	For: 43	Nat: 36	Past/Hay: <1	Crop: <1	Urb/Com: 2	Road: <1	Other Dev: <1	L (Gravel Pit	, Landfill, Industrial
3	% Watershed WL Cover and by Class	Total: 10%	SM: <1	BO: 6	FE: 1	FM: 2	FS: 1	SS: 1	CP: <1	VP: Present
SF1	Watershed condition	Н	M							
SF2	Proportion of WL area in watershed & opportunity for floodwater detenti	on H	M	L						
SECTI	ION TWO: WETLAND CHARACTERISTICS									
Wetla	and Type: Treed Swamp	WL size: 0.	.5 hectares		Landform:	Slope		Landscape Po	sition: Lotio	Stream-Confined
Wate	er flow path: Throughflow	Wetland Orig	gin: Natural							
1	Water Regime	PF	SF	TF	SS	(PS)	RfT	IfT	AF	
2	# WL's within 30m project area	Total# 0	SM:	BO:	FE:	FM:	FS:	SS:	CP:	VP:
3	B Is WL part of complex	Yes	No							
4	1 % each wetland type in complex	SM:	BO:	FE:	FM:	FS: 100	SS:	CP:	VP:	
5	Is WL bordering or associated with a lake or pond?	bordering		within 100m		N/A	_	specify		
	Standing water?	Yes	Avg Dep: 5-10)	% Inundate	ed:	\bigcirc			
	7 Inlet or Outlet (circle all that apply)?	Inlet	Outlet							
8	Adjacent Upland Land Use within 100m (%)	For: 70	Nat: 20	PasHay:	Crop:	UrbCm:	Road:	Other Dev:	10	Rock cliff
9	Are there stressors in WL or WL buffer area? Circle primary stressor(s).			_EBDPF						
			_	, R,Rr,U/C	1			_	•	
	Hydrology Altered (circle all that apply)?	Ditching	Dams	Tiles	Culvert	Well	Diversion	Other Specify	:	
SF3	Rate the general wetland condition/integrity	(H)	М	L						
SECTI	ION THREE: ADJACENT LAND CONDITION AND INTEGRITY									
	Average width of adjacent naturalized buffer	>1000m								
	Widths for water quality	H >1 3	M 8-15	L <8						
	Widths for wildlife habitat	H >1 0 0	M 15-100	L <15						
	Adjacent area vegetation condition (list % in each category)	H 100%	М	L						
	Adjacent area diversity and structure (list % in each category)	H 100%	М	L						
	Adjacent Upland Slope (list % in each category)	Steep 30%	Mod 60%	Gentle 10%						
	Adjacent land supports water quality	Yes	No	Specify:						
	Adjacent land supports wildlife habitat	Yes	No	Specify:	T					
	Rate the overall condition and integrity land adjacent to wetland	(H)	М	L	is buffer re	quired to mail	ntain red fl	ag functions of	wetland?	f yes if nd
	ION FOUR: DOCUMENTED IMPORTANT FEATURES									
SF5	Is the WL a WSS?	Yes	(No							

SF6 Does the WL support commercial/recreational fish/shellfish?	Yes (No							
SF7 Species of concern (Fed/Prov)? Specify.	End	Thr - SARA	SpC	Red	Yellow S1	S2	<i>S3</i>	(N/A)
SF8 Wetland has conservation/compensation agreements/activity?	Yes	No	specify:					
SF9 Wetland is calcerous fen, black ash or cedar swamp?	Yes	No						
SF10 Within Drinking Water Protected Area (designated watershed/wellfield)	Yes	No	specify:					
SF11 WL within a floodplain and upstream of or within of a populated area?	Yes	(No						
SF12 Fed/Prov/Municipal area of interest?	Yes	No	specify:					
SECTION FIVE: HYDROLOGIC CONDITION AND INTEGRITY								
1 Is WL source of stream or headwater(wc order 1 or 2)	Yes	No	Specify:					
2 Is WL geographically isolated?	Yes	No	Specify:					
3 WL ability to maintain characteristic hydrologic regime	High		Med		Low			
4 Water Storage Depth (list % in each class)	>30cm	15-30cm	up to 15cm		No ponding			
5 Signs of surface water retention observed?	SWcm, W	VSL, WCD,	WMcm, SM	_cm, SD, <i>F</i>		_, BT, AR	, Other:	
6 Describe observable/historical anthropogenic sediment delivery	Low		Med		High			
7 Disturbance of WL soils	Low		Med		High			
8 Predominant soils adjacent to WL	Sand		Silt/loam		Clay bedrock			
9 Capacity of WL to alter/retard flows	High		Med		Low			
10 Roughness coefficient for surface water flow path	High		Med		Low			
11 Strormwater/Wastewater/Agricultural runoff detention	High		Med		Low			
12 Water Source	Natural		Mostly natu	ral	Partly altered	Controlle	ed	
13 Hydrology of tidal wetlands	Unrestricte	d	Reduced		Restricted	N/A		
14 Coastal storm surge	Yes	No						
SF13 WL hydrologic condition	Natural	Modified		Significa	ntly Modified			
SF14 WL important for maintaining stream flow?	Yes	No						
SF15 WL ability to detain surface water	High	Med	Low					
SECTION SIX: WATER QUALITY								
1 Strormwater/Wastewater/Agricultural runoff as water source?	High		Med		Low			
2 Nutrients/sediments from surrounding land	High		Med		Low			
3 Significant flood/stormwater attenuation	Yes	No						
4 Vegetation capacity to settle suspended sediments	High		Med		Low			
5 WL type /landscape position holds/filters runoff?	(Yes)	No						
SF16 Wetland improves water quality?	Yes	No						
SF17 Evidence of excess nutrient loading/contamination?	(Low)	Med	High					
SF18 WL contributes to water quality in downstream resources	High	Med	Low					
SECTION SEVEN: GROUNDWATER INTERACTIONS								
1 Describe soils in wetland	Recharge		Discharge					
2 Land use / run off in subwatershed upstream	Recharge		Discharge)				
3 Conditions of upland soils within 200m of wetland	Recharge	>	Discharge					
4 Hydroperiod of wetland	Recharge		Discharge					
5 Describe inlet/outlet configuration	Recharge		Discharge					
6 Characterize topographic relief surrounding wetland	Recharge		Discharge					

SECTION EIGHT SHOREUNE STRANGERING SHORE SECTION EIGHT SHOREUNE SHOREUNG SHOREUN	SF19 WL serves as a recharge site	Yes	No								
No Streamwidth >4m Teamwidth >4m Teamw	SF20 WL serves as a discharge site	Yes	No								
2 Stower of noted vegetation in shallow water zone	SECTION EIGHT: SHORELINE STABILIZATION AND INTEGRITY										
3 Agy veg WL width b/w shoreline/streambank & 2 m depth contour	1 Wetland fringing ocean/estuary/lake/pond/river/stream?	Yes	No	streamwidth >	4m	streamwid	th<4m	WB Exposed	WB She	ltered	
High Med Low Secribe shoreline erosino potential High Med Low Secribe shoreline erosino potential High Med Gow Shoreline/streambank veg condition upslope of water level Low Med High Med Gow Med High Med Gow Low Med High Med Gow Med High High Med High	2 % cover of rooted vegetation in shallow water zone	H >50%	M 10-50	L <10%							
Specific shoreline erosion potential High Med Cow	3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour	H >10m	M 3-10	L <3m							
Specific Notes in the Specific Notes in th	4 Prevalence of strong-stemmed emerg. veg (shoreline marshes and fens only)	High	Med	Low							
SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY H M L N/A	5 Describe shoreline erosion potential	High	Med	Low							
SECTION NINE: PLANT COMMUNITY 1 Vegetation diversity 1 Degetation Distruthance 2 Degetation Distruthance 3 Degetation Distruthance 4 Degetation Distruthance 5 Distruthance Types 5 Distruthance Types 6 Distruthance Types 7 Vegetative Integrity of plant community 8 Degetative Integrity of plant communities 8 Degetative Integrity Office Integrity Off	6 Shoreline/streambank veg condition upslope of water level	Low	Med	High	Artificial						
1 Vegetation diversity	SF21 WL ability to stabilize shoreline	H	M	L	N/A						
1b Dominant plant species and % cover in the WL 3 Dominant Non-native or Invasive species and % cover 4 Vegetation Disturbance 5 Disturbance Types 6 Disturbance Types 7 Vegetative Integrity of plant community 7 Vegetative Integrity of plant community 8 PEZZ Is the plant community unique or rare regionally or provincially? 9 Yes 10 Despecify: 9 PEZZ Is the newer of Integrity of plant communities 9 PEZZ Is the newer of Integrity of Plant communities 9 PEZZ Is the newer of Integrity of Plant communities 9 PEZZ Is the newer of Integrity of Plant communities 9 PEZZ Is the newer of Plant communit	SECTION NINE: PLANT COMMUNITY										
3 Dominant Non-native or Invasive species and % cover 4 Vegetation Disturbance 4 Vegetation Disturbance 5 Disturbance Types 7 Vegetative Integrity of plant community FSF22 Is the plant community unique or rare regionally or provincially? FSF23 Is the plant community unique or rare regionally or provincially? FSF24 Rate the overall integrity/quality of plant communities FSF24 Rate the overall integrity/quality of plant community? H M L FSF25 Are there only observed rare or endangered plant species? Specify. FSCON TEN: FISH AND WILDLEF HABITAT AND INTEGRITY 1 Interspersion of open water and vegetation (open water types only) 1 Interspersion that best fits entire wetland 3 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity 4 Interspersion of other wetlands in vicinity 5 Barriers/restriction between wetland and other habitat 6 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 9 Fish species observed or evidence seen (list) Yes No Interspersion of opiny water and vegetation (open water types only) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: 12 WL provides habitat for: 13 WL provides habitat for: 14 WL provides habitat for: 15 WL provides habitat for: 16 WL provides habitat for: 17 Noteworthy wild waterbirds 18 Waterfowl 19 Waterfowl 10 Waterfowl 10 Waterfowl 11 WL provides habitat for: 12 WL provides habitat for: 13 WL provides habitat for: 14 WL provides habitat for: 15 December 1 A. M. M. L. D. D.	1 Vegetation diversity	High	Med	Low							
4 Vegetation Disturbance 5 Disturbance Types HATV _G _,MInO/DImOAH, IiSdE,other, 7 Vegetative Integrity of plant community E	1b Dominant plant species and % cover in the WL	list: Picea n	nariana (60%)/Os	smunda cinnamo	mea (20%)		•				
Solution	3 Dominant Non-native or Invasive species and % cover	Yes	No	specify: %							
7 Vegetative Integrity of plant community FE H M L SF22 Is the plant community unique or rare regionally or provincially? FS23 Does the WL contain a diversity of plant communities FS24 Rate the overall integrity/quality of plant community? H M L SF25 Are there any observed rare or endangered plant species? Specify. Find Thr SpC Red Yellow S1 S2 S3 M/A SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY 1 Interspersion of open water and vegetation (open water types only) 4 Interspersion of open water and vegetation verus open water 2 Interspersion of other wetlands in vicinity 4 Interspersion of other wetlands in vicinity 4 Interspersion of other wetlands in vicinity Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 10 Veryoldes habitat for: SpC Red Yellow S1 S2 S3 M/A L N/A L N/A L N/A L N/A H M L N/A H M L N/A Interspersion of other wetlands in vicinity H M H M L N/A Interspersion of other wetlands in vicinity H M H M L N/A Interspersion of other wetlands in vicinity H M M L N/A Interspersion of other wetlands in vicinity H M M L N/A Interspersion of other wetlands in vicinity H M M L N/A Interspersion of other wetlands in vicinity H M M L N/A Interspersion of other wetlands in vicinity H M M L N/A Interspersion of other wetlands in vicinity H M L N/A Interspersion of other wetlands in vicinity H M M L N/A Interspersion of other wetlands in vicinity H M M L N/A Interspersion of other wetlands in vicinity H M M L N/A Interspersion of other wetlands in vicinity H M M L N/A Interspersion of other wetlands in vicinity H M M L N/A Interspersion of other wetlands in vicinity H M M L N/A Interspersion of other wetlands in vicinity H M M L N/A Interspersion of other wetlands in vicinity Interspersion of other wetlands in vicinity Intersper	4 Vegetation Disturbance	Н	M		specify type	(s) below					
SF22 Is the plant community unique or rare regionally or provincially? FF23 Does the WL contain a diversity of plant communities H M L SF24 Rate the overall integrity/quality of plant community? FF25 Are there any observed rare or endangered plant species? Specify. End Thr SpC Red Yellow S1 S2 S3 (V/A) SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY 1 Interspersion of open water and vegetation (open water types only) 1 W Cover in vegetation verus open water 2 Interspersion that best fits entire wetland 3 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity 4 Interspersion of other wetlands in vicinity 4 Interspersion of other wetlands in vicinity FF26 Does wetland support fish/fish habitat? Yes No Ist: Yes No Ist: Waterbirds Waterbirds Waterbirds Waterbirds Waterbirds Waterbirds Waterbirds Waterbirds Waterbirds Waterbirds Waterbirds Waterbirds Waterbirds Waterbirds Waterbirds Waterbirds Waterbirds Waterbirds Waterbirds Waterbirds Waterbirds Waterbirds Waterbird	5 Disturbance Types	H,ATV_	,G,,M,l	n, D/D, Im_	, OAH,	, Ii, Sd	_,E,,oth	er,			
SF23 Does the WL contain a diversity of plant communities H M L	7 Vegetative Integrity of plant community	(E)	Н	М	L						
SF24 Rate the overall integrity/quality of plant community?	SF22 Is the plant community unique or rare regionally or provincially?	Yes	no	specify:							
SF25 Are there any observed rare or endangered plant species? Specify. End Thr SpC Red Yellow S1 S2 S3 M/A	SF23 Does the WL contain a diversity of plant communities	Н	M	L							
SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY 1 Interspersion of open water and vegetation (open water types only) 1 Interspersion of open water and vegetation (open water types only) 2 Interspersion that best fits entire wetland 3 Wetland condition related to detritus H M L M/A 4 Interspersion of other wetlands in vicinity Barriers/restriction between wetland and other habitat Noteworthy wildlife or evidence (birds, mammals, amphibians, etc) Connected to permanent water (accessible to fish)? 8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: 4 My L My provides habitat for: 5526 Does wetland support fish/fish habitat? Wes No specify:	SF24 Rate the overall integrity/quality of plant community?	(H)	М	L							
1 Interspersion of open water and vegetation (open water types only) 1b % cover in vegetation verus open water 2 Interspersion that best fits entire wetland 3 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity 6 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: 2 My 4 M 5 No specify: 12 M 4 M 5 No specify: 13 Wetland part of contiguous upland or wetland: 4 M 5 No specify:	SF25 Are there any observed rare or endangered plant species? Specify.	End	Thr	SpC	Red	Yellow	<i>S</i> 1	52	<i>S3</i>	(N/A)	
1b % cover in vegetation verus open water 2 Interspersion that best fits entire wetland 3 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity 6 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians, etc) 8 Connected to permanent water (accessible to fish)? Exceptional High Med Ow N/A 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: Amphibians Reptiles Waterfowl Waterbirds Amphibians Reptiles Waterfowl Waterbirds Fish R/E species R/E species	SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY										
2 Interspersion that best fits entire wetland 3 Wetland condition related to detritus H M L N/A 4 Interspersion of other wetlands in vicinity H M L 6 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians, etc) 8 Connected to permanent water (accessible to fish)? Exceptional High Med Low N/A 9 Fish species observed or evidence seen (list) Yes No list: 10 Wetland part of contiguous upland or wetland: 25-50ha 25-50ha 10-25ha 10hb 11 WL provides habitat for: Materiors Waterfowl Waterbirds Mammals Fish R/E species SF26 Does wetland support fish/fish habitat? Yes No specify:	1 Interspersion of open water and vegetation (open water types only)	Н	M								
3 Wetland condition related to detritus H M L N/A 4 Interspersion of other wetlands in vicinity Barriers/restriction between wetland and other habitat Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) Exceptional High Med Low N/A Sist: Passerines, Wood frog Exceptional High Med Low N/A Fish species observed or evidence seen (list) Wetland part of contiguous upland or wetland: Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) Yes No list: 10 Wetland part of contiguous upland or wetland: Solha 25-50ha 10-25ha 10-25ha 10-25ha It WL provides habitat for: Mamphibians Reptiles Waterfowl Waterbirds Mammals Fish R/E species SF26 Does wetland support fish/fish habitat? Yes No specify:	1b % cover in vegetation verus open water	100%									
4 Interspersion of other wetlands in vicinity 6 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? Fish species observed or evidence seen (list) 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: SF26 Does wetland support fish/fish habitat? H M M H H M H H M H M H M H M H	2 Interspersion that best fits entire wetland	Н	М		N/A						
6 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: Amphibians Reptiles Waterfowl Waterbirds M H Med Ow N/A Iist: 10-25ha 10-25ha 10-25ha 10-25ha 10-25ha Mammals Fish R/E species R/E species	3 Wetland condition related to detritus	Н	М	L	N/A						
7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? Exceptional High Med Low N/A 9 Fish species observed or evidence seen (list) Yes No list: 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: Amphibians Reptiles Waterfowl Waterbirds Mammals Fish R/E species SF26 Does wetland support fish/fish habitat? Yes No specify:	4 Interspersion of other wetlands in vicinity	Н	M	L							
8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: SF26 Does wetland support fish/fish habitat? Exceptional High Med Low N/A Ilist: Ves No list: Waterfowl Waterbirds Mammals Fish R/E species Waterfowl Waterbirds Mammals Fish R/E species Species	6 Barriers/restriction between wetland and other habitat		М	Н							
9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: Amphibians Reptiles Waterfowl Waterbirds Mammals Fish R/E species SF26 Does wetland support fish/fish habitat? Yes No specify:	7 Noteworthy wildlife or evidence (birds, mammals, amphibians, etc)	Yes	No	list: Passerines	, Wood frog						
10 Wetland part of contiguous upland or wetland: >50ha 25-50ha 10-25ha <10h) 11 WL provides habitat for: Amphibians Reptiles Waterfowl Waterbirds Mammals Fish R/E species SF26 Does wetland support fish/fish habitat? Yes No specify:	8 Connected to permanent water (accessible to fish)?	Exceptiona	l High	Med	Low	N/A					
11 WL provides habitat for: Amphibians Reptiles Waterfowl Waterbirds Mammals Fish R/E species SF26 Does wetland support fish/fish habitat? Yes No specify:	9 Fish species observed or evidence seen (list)	Yes		list:							
SF26 Does wetland support fish/fish habitat? Yes No specify:	10 Wetland part of contiguous upland or wetland:	>50ha	25-50ha	10-25ha							
	11 WL provides habitat for:	Amphibians	s Reptiles	Waterfowl	Waterbirds	Mammals	Fish	R/E species			
	SF26 Does wetland support fish/fish habitat?	Yes	(No)	specify:							
SF27 Rare or endangered fish/wildlife species found in the wetland? End Thr-SARA SpC Red Yellow S1 S2 S3 (N/A)	SF27 Rare or endangered fish/wildlife species found in the wetland?	End	Thr-SARA	SpC	Red	Yellow	51	S2	<i>S3</i>	(N/A)	
SF28 Overall fish and wildlife habitat quality H M L	SF28 Overall fish and wildlife habitat quality	H	M	L							
SECTION ELEVEN: COMMUNITY USE/VALUE	SECTION ELEVEN: COMMUNITY USE/VALUE										
1 Describe community use VVCPCOPOPA,AVGB,E,HI, WV, BO,HU, PG, BP,F, E, R, Other:	1 Describe community use	VV,CP	,CO,PO,PA_	_,,AV,GB,E_	,HI, WV	, BO,HU_	, PG, BP	P,F, E, R_	, Other:		
	SF29 Rate the wetland's community use/value	Н	M								
<u></u>		H	M (_,,	_,				

APPE	NDIX D: WL8 Nova Scotia Wetland Evaluation T	echnique Fie	ld Data Sheet								
Proje	t Name: Black Point Quarry	Evaluator: Sc	ott Burley		GPS Coordin	ates:	644009 E	x 5023134 N			
PID:3	5212497, 35212505, 35212521, 35212513, 35044056, 35214014, 35214022, 3521402	22 and 352139	990	Site Address: E	Black Point, Gu	uysborough C	ounty, NS				
Sourc	es and Dates of Mapping/Images: NS Wetlands Inventory (2012); NS Forest Inventory	(Current For	est Data - 2004);	Google Earth (2	2003)						
Evalu	ation Date: 04-Sep-14	Site Visit Dat	e:	22-Aug-14	ļ						
Weat	ner Conditions (past 48 hours): Sun and Clouds										
Seaso	nal Weather Conditions: Typical										
SECTI	ON ONE: WATERSHED CHARACTERISTICS										
1	Watershed Name (tertiary): 1EQ-SD	Size: 518	km²								
2	% Watershed Land Cover	For: 43	Nat: 36	Past/Hay: <1	Crop: <1	Urb/Com: 2	Road: <1	Other Dev: <1	(Gravel Pit	, Landfill, Ind	dustrial
3	% Watershed WL Cover and by Class	Total: 10%	SM: <1	BO: 6	FE: 1	FM: 2	FS: 1	SS: 1	CP: <1	VP: Presen	t
SF1	Watershed condition	Н	М	L				•		•	
SF2	Proportion of WL area in watershed & opportunity for floodwater detention	н (M	L							
SECTI	ON TWO: WETLAND CHARACTERISTICS										
Wetla	nd Type: Swamp/Bog/Fen	WL size: 10	.3 hectares		Landform: Fl	lat		Landscape Po	sition: Lotic	Stream-Cor	ıfined
Wate	flow path: Throughflow	Wetland Orig	gin: Natural								
1	Water Regime	PF	SF	TF	ss (PS	RfT	IfT	AF		
2	# WL's within 30m project area	Total# 0	SM:	BO:	FE:	FM:	FS:	SS:	CP:	VP:	
3	Is WL part of complex	Yes	No								
4	% each wetland type in complex	SM:	BO: 26	FE: 24	FM:	FS: 50	SS:	CP:	VP:		
5	Is WL bordering or associated with a lake or pond?	bordering		within 100m		N/A		specify Portio	n of wetlan	d borers Fog	herty Lakي
	<u> </u>	Yes	Avg Dep: 0-5		% Inundated	l: 2%	No				
	Inlet or Outlet (circle all that apply)?	Inlet	Outle								
	, ,	For: 40		PasHay:	Crop:	UrbCm:	Road:	Other Dev:	10) lake	
9	Are there stressors in WL or WL buffer area? Circle primary stressor(s).		, WcS, O/C,E								
			TV,DG,EA		-		-		1	1	T
			Dams	Tiles	Culvert	Well	Diversion	Other Specify			
	• • • • • • • • • • • • • • • • • • • •	H)	M	L							
	ON THREE: ADJACENT LAND CONDITION AND INTEGRITY										
	Average width of adjacent naturalized buffer	>1000m		Ī							
	1 ,	H >1	M 8-15	L <8							
3	Widths for wildlife habitat	H >1 0 0	M 15-100	L <15							
4	, , , , , , , , , , , , , , , , , , , ,	H 100%	М	L							
			M	L							
			Mod 60%	Gentle 30%							
	Adjacent land supports water quality	Yes	No	Specify:							
	Adjacent land supports wildlife habitat	Yes		Specify:	1				.1 10		_
	Rate the overall condition and integrity land adjacent to wetland		М	L	is buffer req	uired to maii	ntain red fla	g functions of	wetland? I	t yes if no	<u> </u>
	ON FOUR: DOCUMENTED IMPORTANT FEATURES			1							
SF5	Is the WL a WSS?	Yes	(No								

SF6	Does the WL support commercial/recreational fish/shellfish?	Yes	No	\neg					
SF7	Species of concern (Fed/Prov)? Specify. Usnea flammea; Cladonia stygia	End	Thr - SARA	SpC	Red	Yellow 51	<u>S2</u>	53	N/A
SF8	Wetland has conservation/compensation agreements/activity?	Yes	No	specify:					<u> </u>
SF9	Wetland is calcerous fen, black ash or cedar swamp?	Yes	No	, ,					
SF10	Within Drinking Water Protected Area (designated watershed/wellfield)	Yes	No	specify:					
	WL within a floodplain and upstream of or within of a populated area?	Yes	No						
	Fed/Prov/Municipal area of interest?	Yes	No	specify:					
SECT	TON FIVE: HYDROLOGIC CONDITION AND INTEGRITY								
	1 Is WL source of stream or headwater(wc order 1 or 2)	Yes	No	Specify: Sma	ll watercou	rse flows through wetla	nd from nort	n to south	
	2 Is WL geographically isolated?	Yes	No	Specify:					
	3 WL ability to maintain characteristic hydrologic regime	High		Med		Low			
	4 Water Storage Depth (list % in each class)	>30cm	15-30cm	up to 15cm		No ponding			
	5 Signs of surface water retention observed?	SW_5_cm,	WSL, WCD,	. WMcm, SM_	cm, SD,	AD, ID, PMT_x_, A	I, BT, AF	, Other:	
	Describe observable/historical anthropogenic sediment delivery	Low		Med		High			
	7 Disturbance of WL soils	Low		Med		High			
	8 Predominant soils adjacent to WL	Sand		Silt/loam		Clay bedrock			
	9 Capacity of WL to alter/retard flows	High		Med		Low			
1	Roughness coefficient for surface water flow path	High		Med		Low			
1	1 Strormwater/Wastewater/Agricultural runoff detention	High		Med		Low			
1	2 Water Source	Natural		Mostly natur	ral	Partly altered	Contro	lled	
1	3 Hydrology of tidal wetlands	Unrestricte	ed _	Reduced		Restricted	N/A)		
1	4 Coastal storm surge	Yes	No						
SF13	WL hydrologic condition	Natural	Modified		Significa	ntly Modified			
5F14	WL important for maintaining stream flow?	Yes	No						
F15	WL ability to detain surface water	High	Med	Low					
SECT	TON SIX: WATER QUALITY								
1	Strormwater/Wastewater/Agricultural runoff as water source?	High		Med		Low			
2	Nutrients/sediments from surrounding land	High		Med		Low			
3	Significant flood/stormwater attenuation	Yes	No)						
4	Vegetation capacity to settle suspended sediments	High		Med		Low			
5	WL type /landscape position holds/filters runoff?	(Yes)	No						
SF16	Wetland improves water quality?	Yes	No						
SF17	Evidence of excess nutrient loading/contamination?	(low)	Med	High					
SF18	WL contributes to water quality in downstream resources	High	Med	Low					
SECT	TON SEVEN: GROUNDWATER INTERACTIONS								
	1 Describe soils in wetland	Recharge		Discharge					
	2 Land use / run off in subwatershed upstream	Recharge		Discharge)				
	3 Conditions of upland soils within 200m of wetland	Recharge		Discharge					
	4 Hydroperiod of wetland	Recharge		Discharge					
	Describe inlet/outlet configuration	Recharge		Discharge					
	6 Characterize topographic relief surrounding wetland	Recharge		Discharge					

SF19 WL serves as a recharge site			
SF20 WL serves as a discharge site Yes No			
SECTION EIGHT: SHORELINE STABILIZATION AND INTEGRITY			
1 Wetland fringing ocean/estuary/lake/pond/river/stream?	WB Shelter	red	
2 % cover of rooted vegetation in shallow water zone H >50% M 10-50 L <10%			
3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour H>10 M 3-10 L <3m			
4 Prevalence of strong-stemmed emerg. veg (shoreline marshes and fens only) High Med Low			
5 Describe shoreline erosion potential High Med Low			
6 Shoreline/streambank veg condition upslope of water level Low Med High Artificial			
SF21 WL ability to stabilize shoreline H M L N/A			
SECTION NINE: PLANT COMMUNITY			
1 Vegetation diversity High Med Low			
1b Dominant plant species and % cover in the WL list: Picea mariana (60%)/Osmunda cinnamomea (20%)/Carex trisperma (40%)			
3 Dominant Non-native or Invasive species and % cover Yes No specify: %			
4 Vegetation Disturbance H M (L) specify type(s) below			
5 Disturbance Types HATV,G,,M,In, D/D, Im, OAH, Ii, Sd,E,,other,			
7 Vegetative Integrity of plant community			
SF22 Is the plant community unique or rare regionally or provincially? Yes no specify:			
SF23 Does the WL contain a diversity of plant communities			
SF24 Rate the overall integrity/quality of plant community?			
SF25 Are there any observed rare or endangered plant species? Specify. End Thr SpC Red Yellow S1 (S2)	S3	N/A	
SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY			
1 Interspersion of open water and vegetation (open water types only) H M			
1b % cover in vegetation verus open water100%			
2 Interspersion that best fits entire wetland H M L N/A			
3 Wetland condition related to detritus H M L N/A			
4 Interspersion of other wetlands in vicinity H (M) L			
6 Barriers/restriction between wetland and other habitat L M H			
7 Noteworthy wildlife or evidence (birds, mammals, amphibians, etc) Yes No list: Passerines, Wood frog, Deer			
8 Connected to permanent water (accessible to fish)? Exceptional High Med Low N/A			
9 Fish species observed or evidence seen (list) Yes No list:			
10 Wetland part of contiguous upland or wetland: >50ha 25-50ha 10-25ha <10h			
11 WL provides habitat for: Amphibians Reptiles Waterfowl Waterbirds Mammals Fish R/E species			
SF26 Does wetland support fish/fish habitat? Yes No specify:			
SF27 Rare or endangered fish/wildlife species found in the wetland? End Thr-SARA SpC Red Yellow S1 S2	<i>S3</i>	(N/A)	
SF28 Overall fish and wildlife habitat quality H M L			
SECTION ELEVEN: COMMUNITY USE/VALUE			
1 Describe community use VVCPCOPOPA,,AV_x_GBEHI, WV, BOHU, PG_xBP_x_,F, E, R	, Other:		
SF29 Rate the wetland's community use/value H M (L)			

APPE	NDIX D: WL9 Nova Scotia Wetland Evaluation To	echnique Fie	ld Data Sheet							
Proje	ct Name: Black Point Quarry	Evaluator: Sc	ott Burley		GPS Coordin	ates:	643617 E	x 5023397 N		
PID:3	5212497, 35212505, 35212521, 35212513, 35044056, 35214014, 35214022, 3521402	2 and 352139	990	Site Address: E	Black Point, G	uysborough (County, NS			
Sourc	es and Dates of Mapping/Images: NS Wetlands Inventory (2012); NS Forest Inventory	(Current For	est Data - 2004);	Google Earth (2	2003)					
Evalu	ation Date: 05-Sep-14	Site Visit Dat	e:	22-Aug-14	ļ					
Weat	her Conditions (past 48 hours): Sun and Clouds									
Seaso	nal Weather Conditions: Typical									
SECTI	ON ONE: WATERSHED CHARACTERISTICS									
1	Watershed Name (tertiary): 1EQ-SD	Size: 518	km²							
2	% Watershed Land Cover	For: 43	Nat: 36	Past/Hay: <1	Crop: <1	Urb/Com: 2	Road: <1	Other Dev: <1	(Gravel Pit	Landfill, Industrial
3	% Watershed WL Cover and by Class	Total: 10%	SM: <1	BO: 6	FE: 1	FM: 2	FS: 1	SS: 1	CP: <1	VP: Present
SF1	Watershed condition	Н		L						
SF2	Proportion of WL area in watershed & opportunity for floodwater detention	н (M	Ĺ						
SECTI	ON TWO: WETLAND CHARACTERISTICS									
Wetla	nd Type: Bog	WL size: 4.6	hectares		Landform: F	lat		Landscape Po	sition: Terre	ene
Wate	r flow path: Isolated	Wetland Orig	gin: Natural							
1	Water Regime	PF	SF	TF	ss (PS	RfT	IfT	AF	
2	# WL's within 30m project area	Total# 0	SM:	BO:	FE:	FM:	FS:	SS:	CP:	VP:
3	Is WL part of complex	Yes (No							
4	% each wetland type in complex	SM:	BO: 100	FE:	FM:	FS:	SS:	CP:	VP:	
5	Is WL bordering or associated with a lake or pond?	bordering		within 100m		N/A		specify		
6	Standing water?	Yes	Avg Dep: 0-10 c	m	% Inundated	l: 5%	No			
7	Inlet or Outlet (circle all that apply)?	Inlet	Outlet							
8	Adjacent Upland Land Use within 100m (%)	For: 60	Nat: 40	PasHay:	Crop:	UrbCm:	Road:	Other Dev:		
9	Are there stressors in WL or WL buffer area? Circle primary stressor(s).	DD, CW,	, WcS, O/C,E	B,DP,F,	M, ES,NE	,DwP,				
		M,GC,A ⁻	TV,DG,EA,	R,Rr,U/CI	D,F,FA	, other (speci				
10	Hydrology Altered (circle all that apply)?	Ditching	Dams	Tiles	Culvert	Well	Diversion	Other Specify:		
SF3	Rate the general wetland condition/integrity	H)	M	L						
SECTI	ON THREE: ADJACENT LAND CONDITION AND INTEGRITY									
1	Average width of adjacent naturalized buffer	>1000m	10							
	' '	H >1	M 8-15	L <8						
3	Widths for wildlife habitat	H >100	M 15-100	L <15						
	, , , , , , , , , , , , , , , , , , , ,	H 100%	M	L						
5	Adjacent area diversity and structure (list % in each category)	H 100%	M	L						
6	Adjacent Upland Slope (list % in each category)	Steep 10%	Mod 30%	Gentle 60%						
7	Adjacent land supports water quality	Yes	No	Specify:						
		Yes	No	Specify:						
SF4	Rate the overall condition and integrity land adjacent to wetland	H	M	L	is buffer req	uired to mai	ntain red fl	ag functions of	wetland? I	yes if no
SECTI	ON FOUR: DOCUMENTED IMPORTANT FEATURES									
SF5	Is the WL a WSS?	Yes	No)							

SF6 Does the WL support commercial/recreational fish/shellfish?	Yes	No						
SF7 Species of concern (Fed/Prov)? Specify.	End	Thr - SARA	SpC	Red	Yellow S1	52	S3	(N/A)
SF8 Wetland has conservation/compensation agreements/activity?	Yes	No	specify:					
SF9 Wetland is calcerous fen, black ash or cedar swamp?	Yes	No						
SF10 Within Drinking Water Protected Area (designated watershed/wellfield)	Yes	No	specify:					
SF11 WL within a floodplain and upstream of or within of a populated area?	Yes	No						
SF12 Fed/Prov/Municipal area of interest?	Yes	No	specify:					
SECTION FIVE: HYDROLOGIC CONDITION AND INTEGRITY								
1 Is WL source of stream or headwater(wc order 1 or 2)	Yes	No	Specify:					
2 Is WL geographically isolated?	Yes	No	Specify:					
3 WL ability to maintain characteristic hydrologic regime	High		Med		Low			
4 Water Storage Depth (list % in each class)	>30cm	15-30cm	up to 15cm	<u> </u>	No ponding			
5 Signs of surface water retention observed?	SW_5_cm,	WSL_x_, WCD_	_, WMcm, SM	1cm, SD	, AD, ID, PMT_x_, <i>F</i>	AI, BT, AR	, Other:	
6 Describe observable/historical anthropogenic sediment delivery	Low	_	Med		High			
7 Disturbance of WL soils	Low		Med		High			
8 Predominant soils adjacent to WL	Sand		Silt/loam		Clay bedrock			
9 Capacity of WL to alter/retard flows	High		Med		Low			
10 Roughness coefficient for surface water flow path	High		Med		Low			
11 Strormwater/Wastewater/Agricultural runoff detention	High		Med		Low			
12 Water Source	Natural		Mostly natu	ral	Partly altered	Controlle	ed	
13 Hydrology of tidal wetlands	Unrestricte	d _	Reduced		Restricted	N/A		
14 Coastal storm surge	Yes	No						
SF13 WL hydrologic condition	Natural	Modified		Significa	ntly Modified			
SF14 WL important for maintaining stream flow?	Yes	No						
SF15 WL ability to detain surface water	High	Med	Low					
SECTION SIX: WATER QUALITY								
1 Strormwater/Wastewater/Agricultural runoff as water source?	High		Med		Low			
2 Nutrients/sediments from surrounding land	High		Med		Low			
3 Significant flood/stormwater attenuation	Yes	No						
4 Vegetation capacity to settle suspended sediments	High		Med		Low			
5 WL type /landscape position holds/filters runoff?	Yes	(No)						
SF16 Wetland improves water quality?	Yes	(No)						
SF17 Evidence of excess nutrient loading/contamination?	(low)	Med	High					
SF18 WL contributes to water quality in downstream resources	High	Med	Low					
SECTION SEVEN: GROUNDWATER INTERACTIONS								
1 Describe soils in wetland	Recharge		Discharge)				
2 Land use / run off in subwatershed upstream	Recharge		Discharge)				
3 Conditions of upland soils within 200m of wetland	Recharge		Discharge					
4 Hydroperiod of wetland	Recharge		Discharge					
5 Describe inlet/outlet configuration	Recharge		Discharge					
6 Characterize topographic relief surrounding wetland	Recharge		Discharge					

SF20 WL serves as a discharge site SECTION EIGHT: SHORELINE STABILIZATION AND INTEGRITY 1 Wetland fringing ocean/estuary/lake/pond/river/stream? Yes No streamwidth >4m streamwidth<4m WB Exposed WB Sheltered 2 % cover of rooted vegetation in shallow water zone 3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour H >10m M 3-10 L <3m	
1 Wetland fringing ocean/estuary/lake/pond/river/stream? Yes No streamwidth > 4m streamwidth < 4m WB Exposed WB Sheltered 2 % cover of rooted vegetation in shallow water zone H > 50% M 10-50 L < 10% 3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour H > 10m M 3-10 L < 3m	
2 % cover of rooted vegetation in shallow water zone H >50% M 10-50 L <10% 3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour H >10m M 3-10 L <3m	
3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour H >10m M 3-10 L <3m	
	•
4 Prevalence of strong-stemmed emerg. veg (shoreline marshes and fens only) High Med Low	
5 Describe shoreline erosion potential High Med Low	
6 Shoreline/streambank veg condition upslope of water level Low Med High Artificial	
SF21 WL ability to stabilize shoreline H M L N/A	
SECTION NINE: PLANT COMMUNITY	
1 Vegetation diversity High Med Low	
1b Dominant plant species and % cover in the WL list: Gaylussacia baccata (60%)/Trichophorum caesptiosus (20%)	•
3 Dominant Non-native or Invasive species and % cover Yes No specify: %	•
4 Vegetation Disturbance H M L specify type(s) below	•
5 Disturbance Types H,ATV,G,,M,In, D/D, Im, OAH, Ii, Sd,E,,other,	•
7 Vegetative Integrity of plant community	
SF22 Is the plant community unique or rare regionally or provincially? Yes no specify:	
SF22 Is the plant community unique or rare regionally or provincially? SF23 Does the WL contain a diversity of plant communities H M L	•
SF24 Rate the overall integrity/quality of plant community?	•
SF25 Are there any observed rare or endangered plant species? Specify. End Thr SpC Red Yellow S1 S2 S3 (V/A)	
SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY	
1 Interspersion of open water and vegetation (open water types only) H M L	
1b % cover in vegetation verus open water95%	
2 Interspersion that best fits entire wetland H M L N/A	
3 Wetland condition related to detritus H M L N/A	
4 Interspersion of other wetlands in vicinity	
6 Barriers/restriction between wetland and other habitat	
7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) Yes No list: Passerines, Deer	
8 Connected to permanent water (accessible to fish)? Exceptional High Med Low N/A	
9 Fish species observed or evidence seen (list) Yes No list:	
10 Wetland part of contiguous upland or wetland: >50ha 25-50ha 10-25ha (10h)	
11 WL provides habitat for: Amphibians Reptiles Waterfowl Waterbirds Mammals Fish R/E species	
SF26 Does wetland support fish/fish habitat? Yes No specify:	
SF27 Rare or endangered fish/wildlife species found in the wetland? End Thr-SARA SpC Red Yellow S1 S2 S3 (V/A)	
SF28 Overall fish and wildlife habitat quality H M L	
SECTION ELEVEN: COMMUNITY USE/VALUE	
1 Describe community use VV,CPCO,PO,PA,,AV_x_,GBE,HI, WV, BO,HU, PG, BP,F, E, R, Other:	
SF29 Rate the wetland's community use/value H M (L)	

APPE	NDIX D: WL10 Nova Scotia Wetland Evaluation	Technique Fie	eld Data Sheet								
Projec	ct Name: Black Point Quarry	Evaluator: Sc	ott Burley		GPS Coordin	nates:	643857 E	x 5023694 N			
PID:3	5212497, 35212505, 35212521, 35212513, 35044056, 35214014, 35214022, 3521402	2 and 352139	990	Site Address: E	Black Point, G	uysborough C	ounty, NS				
Sourc	es and Dates of Mapping/Images: NS Wetlands Inventory (2012); NS Forest Inventory	(Current Fore	est Data - 2004);	Google Earth (2	2003)						
Evalua	ation Date: 04-Sep-14	Site Visit Date	e:	22-Aug-14	1						
Weat	ner Conditions (past 48 hours): Sun and Clouds										
Seaso	nal Weather Conditions: Typical										
SECTI	ON ONE: WATERSHED CHARACTERISTICS										
1	Watershed Name (tertiary): 1EQ-SD	Size: 518	km²								
2	% Watershed Land Cover	For: 43	Nat: 36	Past/Hay: <1	Crop: <1	Urb/Com: 2	Road: <1	Other Dev: <1	(Gravel Pit	Landfill, I	ndustrial
3	% Watershed WL Cover and by Class	Total: 10%	SM: <1	BO: 6	FE: 1	FM: 2	FS: 1	SS: 1	CP: <1	VP: Prese	ent
SF1	Watershed condition	Н	М						-		
SF2	Proportion of WL area in watershed & opportunity for floodwater detention	Н	M	L							
SECTI	ON TWO: WETLAND CHARACTERISTICS										
Wetla	nd Type: Treed Swamp	WL size: 0.	1 hectares		Landform: S	lope		Landscape Pos	sition: Lotic	Stream-Co	onfined
Wate	r flow path: Throughflow	Wetland Orig	in: Natural								
1	Water Regime	PF	SF	TF		PS	RfT	IfT	AF		
2	# WL's within 30m project area	Total# 0	SM:	BO:	FE:	FM:	FS:	SS:	CP:	VP:	
3	Is WL part of complex	Yes	No								
4	% each wetland type in complex	SM:	BO:	FE:	FM:	FS: 100	SS:	CP:	VP:		
5	Is WL bordering or associated with a lake or pond?	bordering		within 100m		N/A		specify			
6	Standing water?	Yes	Avg Dep: 5-10		% Inundated	d: 2%	No				
7	Inlet or Outlet (circle all that apply)?	Inlet	Outlet								
8	Adjacent Upland Land Use within 100m (%)	For: 100	Nat:	PasHay:	Crop:	UrbCm:	Road:	Other Dev:			
9	Are there stressors in WL or WL buffer area? Circle primary stressor(s).	DD, CW,	WcS, O/C,E	B,DP,F,	M, ES,NI	E,DwP,					
		M,GC,A	V_x),DG,EA_	, R,Rr,U/0	D,F,FA_	_, other (spec	ify):				
10	Hydrology Altered (circle all that apply)?	Ditching	Dams	Tiles	Culvert	Well	Diversion	Other Specify:			
SF3	Rate the general wetland condition/integrity	Н	M	L							
SECTI	ON THREE: ADJACENT LAND CONDITION AND INTEGRITY										
1	Average width of adjacent naturalized buffer	>1000m									
		H >1	M 8-15	L <8							
3	Widths for wildlife habitat	H >1 0 0	M 15-100	L <15							
4	Adjacent area vegetation condition (list % in each category)	H 100%	M	L							
5	Adjacent area diversity and structure (list % in each category)	H 100%	M	L							
6	Adjacent Upland Slope (list % in each category)	Steep 30%	Mod 40%	Gentle 20%							
7	Adjacent land supports water quality	Yes	No	Specify:							
		Yes	No	Specify:							
SF4	Rate the overall condition and integrity land adjacent to wetland	H	M	L	is buffer rec	quired to mair	ntain red fl	ag functions of	wetland? If	yes if no	
SECTI	ON FOUR: DOCUMENTED IMPORTANT FEATURES										
SF5	Is the WL a WSS?	Yes	(No								

SF6 Does the WL support commercial/recreational fish/shellfish?	Yes	(No	\neg					
SF7 Species of concern (Fed/Prov)? Specify. Nephroma bellum	End	Thr - SARA	SpC	Red	Yellow S1	52	(S3)	N/A
SF8 Wetland has conservation/compensation agreements/activity?	Yes	No	specify:					
SF9 Wetland is calcerous fen, black ash or cedar swamp?	Yes	No						
SF10 Within Drinking Water Protected Area (designated watershed/wellfield)	Yes	No	specify:					
SF11 WL within a floodplain and upstream of or within of a populated area?	Yes	No						
SF12 Fed/Prov/Municipal area of interest?	Yes	No	specify:					
SECTION FIVE: HYDROLOGIC CONDITION AND INTEGRITY								
1 Is WL source of stream or headwater(wc order 1 or 2)	Yes	No	Specify:					
2 Is WL geographically isolated?	Yes	No	Specify:					
3 WL ability to maintain characteristic hydrologic regime	High		Med		Low			
4 Water Storage Depth (list % in each class)	>30cm	15-30cm	up to 15cm		No ponding			
5 Signs of surface water retention observed?	SW_5_cm, \	WSL, WCD	, WMcm, SM_	_cm, SD,	AD, ID, PMT_x_, <i>F</i>	λΙ, BT, AR	, Other:	
6 Describe observable/historical anthropogenic sediment delivery	Low		Med		High			
7 Disturbance of WL soils	Low		Med		High			
8 Predominant soils adjacent to WL	Sand		Silt/loam		Clay bedrock			
9 Capacity of WL to alter/retard flows	High		Med		Low			
10 Roughness coefficient for surface water flow path	High		Med		Low			
11 Strormwater/Wastewater/Agricultural runoff detention	High		Med		Low			
12 Water Source	Natural		Mostly natur	al	Partly altered	Control	led	
13 Hydrology of tidal wetlands	Unrestricte	d	Reduced		Restricted	N/A		
14 Coastal storm surge	Yes	No						
SF13 WL hydrologic condition	Natural	Modified		Significa	ntly Modified			
SF14 WL important for maintaining stream flow?	Yes	No						
SF15 WL ability to detain surface water	High	Med	Low					
SECTION SIX: WATER QUALITY								
1 Strormwater/Wastewater/Agricultural runoff as water source?	High		Med		Low			
2 Nutrients/sediments from surrounding land	High		Med		Low			
3 Significant flood/stormwater attenuation	Yes	No						
4 Vegetation capacity to settle suspended sediments	High		Med		Low			
5 WL type /landscape position holds/filters runoff?	(Yes)	No						
SF16 Wetland improves water quality?	Yes	No						
SF17 Evidence of excess nutrient loading/contamination?	(Low)	Med	High					
SF18 WL contributes to water quality in downstream resources	High	Med	Low					
SECTION SEVEN: GROUNDWATER INTERACTIONS								
1 Describe soils in wetland	Recharge		Discharge					
2 Land use / run off in subwatershed upstream	Recharge		Discharge					
3 Conditions of upland soils within 200m of wetland	Recharge		Discharge					
4 Hydroperiod of wetland	Recharge		Discharge					
5 Describe inlet/outlet configuration	Recharge		Discharge					
6 Characterize topographic relief surrounding wetland	Recharge		Discharge					

SECTION BIGHT: SARBELINET STABILIZATION AND INTEGRITY SECTION BIGHT: SHORELINE SHORE S	SF19 WL serves as a recharge site	Yes	No								
1 Wetland fringing ocean/estuary/lake/pond/nver/stream? No Streamwidth > Im Teamwidth < Im WB Exposed WB Sheltered No Streamwidth > Im Teamwidth < Im WB Exposed WB Sheltered No Streamwidth > Im Teamwidth < Im WB Exposed WB Sheltered No Streamwidth > Im Teamwidth < Im WB Exposed WB Sheltered No Streamwidth > Im Teamwidth < Im WB Exposed WB Sheltered No Streamwidth > Im Teamwidth < Im	SF20 WL serves as a discharge site	Yes	No								
2 Scover of rooted vegetation in shallow water zone H > 50% M 10-50 C 10% M 3-10 L 2 m 4 Prevalence of strong-stemmed emerg, veg (shoreline marshes and fens only) High Med Low 5 Describe shoreline erosion potential 6 Shoreline/streambank & 2 m depth contour 7 Prevalence of strong-stemmed emerg, veg (shoreline marshes and fens only) High Med Low 8 Describe shoreline erosion potential 8 Shoreline/streambank was condition upsiope of water level 8 Low Med Cligh Artificial 8 Put Juli Juli Juli Juli Juli Juli Juli Juli	SECTION EIGHT: SHORELINE STABILIZATION AND INTEGRITY										
3 Agy veg WL width b/w shoreline/streambank & 2 m depth contour H	1 Wetland fringing ocean/estuary/lake/pond/river/stream?	Yes	No	streamwidth >	•4m	streamwid	th<4m	WB Exposed	d WB She	eltered	
A prevalence of strong-stemmed emerg, veg (shoreline marshes and fens only) High Med Low	2 % cover of rooted vegetation in shallow water zone	H >50%	M 10-50	L <10%							
Fig. Specific shoreline erosion potential High Med Gow	3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour	H >10m	M 3-10	L <3m							
Sorreline/streambank veg condition upstope of water level Low Med High Artificial	4 Prevalence of strong-stemmed emerg. veg (shoreline marshes and fens only)	High	Med	_							
SEZI Wit ability to stabilize shoreline	5 Describe shoreline erosion potential	High	Med	Low							
SECTION NINE: PLANT COMMUNITY 1 Vegetation diversity High Med Ow	6 Shoreline/streambank veg condition upslope of water level	Low	Med	High	Artificial						
1 Vegetation diversity	SF21 WL ability to stabilize shoreline	Н	M	L	N/A						
Ib Dominant plant species and % cover in the WL Ibst: Abies balsamea (40%)/Osmunda cinnamomea (10%)/Carex trisperma (20%)	SECTION NINE: PLANT COMMUNITY										
3 Dominant Non-native or Invasive species and % cover 4 Vegetation Disturbance 4 Vegetation Disturbance 5 Disturbance Types 5 Disturbance Types 6 Disturbance Types 7 Vegetative Integrity of plant community 7 Vegetative Integrity of plant community 8 Disturbance Types 8 Disturbance Types 9 Disturbance Type	1 Vegetation diversity	High	Med	Low						·	
4 Vegetation Disturbance Types 5 Disturbance Types H_ATV_X_G_M_M_In_D/D, Im,OAH, Ii,Sd,E,other, 7 Vegetative Integrity of plant community E H M L 5F22 Is the plant community unique or rare regionally or provincially? F523 Does the WL contain a diversity of plant communities H M L 5F24 Rate the overall integrity/quality of plant community? H M L 5F25 Are there any observed rare or endangered plant species? Specify.N. bellum 5F26 Are there any observed rare or endangered plant species? Specify.N. bellum 5F27 Are there any observed rare or endangered plant species? Specify.N. bellum 5F28 Interspersion of open water and vegetation (open water types only) I Interspersion of open water and vegetation (open water types only) I Interspersion of open water and vegetation verus open water I Interspersion of open water and vegetation verus open water I Interspersion of open water water (a lough of the plant of the plan	1b Dominant plant species and % cover in the WL	list: Abies be	alsamea (40%)/0	Osmunda cinnam	omea (10%)/	Carex trispei	rma (20%)				
S Disturbance Types	3 Dominant Non-native or Invasive species and % cover	Yes	No	specify: %							
7 Vegetative Integrity of plant community F5722 Is the plant community unique or rare regionally or provincially? F573 Does the WL contain a diversity of plant communities F574 Rate the overall integrity/quality of plant community? F575 Are there any observed rare or endangered plant species? Specify. N. bellum F576 Are there any observed rare or endangered plant species? Specify. N. bellum F577 Interspersion of open water and vegetation (open water types only) F578 Interspersion of open water and vegetation (open water types only) F579 Interspersion that best fits entire wetland F570 Interspersion that best fits entire wetland F570 Interspersion of other wetlands in vicinity F570 Interspersion of other wetlands in vicinity F570 Interspersion of other wetlands in vicinity F570 Interspersion of other wetland and other habitat F571 Interspersion of other wetlands in vicinity F572 Interspersion of other wetlands in vicinity F573 Interspersion of other wetlands in vicinity F574 Interspersion of other wetlands in vicinity F575 Interspersion of other wetlands in vicinity F576 Interspersion of other wetlands in vicinity F577 Interspersion of other wetlands in vicinity F577 Interspersion of other wetlands in vicinity F577 Interspersion of other wetlands in vicinity F578 Interspersion of other wetlands in vicinity F579 Interspersion of other wetlands in vicinity F579 Interspersion of other wetlands in vicinity F579 Interspersion of other wetlands in vicinity F570 Interspersion of oth	4 Vegetation Disturbance	Н	M		specify type	(s) below					
SF22 Is the plant community unique or rare regionally or provincially? Yes no specify:			<,G,M	,ln, D/D, ln	n, OAH	, Ii, Sd	,E,,ot	her <i>,</i>			
SF22 Is the plant community unique or rare regionally or provincially? Yes no specify:	7 Vegetative Integrity of plant community	E	Н	М	L						
SF24 Rate the overall integrity/quality of plant community? H M L			no	specify:							
SF25 Are there any observed rare or endangered plant species? Specify.N. bellum SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY 1 Interspersion of open water and vegetation (open water types only) 1 Interspersion of open water and vegetation verus open water 1 Interspersion that best fits entire wetland 1 Interspersion that best fits entire wetland 2 Interspersion of other wetlands in vicinity 4 Interspersion of other wetlands in vicinity 6 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians, etc) 8 Connected to permanent water (accessible to fish)? Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 10 Wet provides habitat for: SF26 Does wetland support fish/fish habitat? Find Thr SpC Red Yellow S1 S2 S3 N/A Thr SpC Red Yellow S1 S2 S3 N/A Thr SpC Red Yellow S1 S2 S3 N/A	SF23 Does the WL contain a diversity of plant communities	Н	M	L							
SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY 1 Interspersion of open water and vegetation (open water types only) 1 Interspersion of open water and vegetation (open water types only) 2 Interspersion that best fits entire wetland 3 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity 6 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: 5F26 Does wetland support fish/fish habitat? Fish No specify: 5F27 Rare or endangered fish/wildlife species found in the wetland? Fish Species found in the wetland? Fish Thr-SARA SpC Red Yellow \$1 S2 S3 M/A	SF24 Rate the overall integrity/quality of plant community?	H	М	L							
1 Interspersion of open water and vegetation (open water types only) 1b % cover in vegetation verus open water 2 Interspersion that best fits entire wetland 3 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity 4 Interspersion of other wetlands in vicinity 5 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: 5 Does wetland support fish/fish habitat? 7 Noteworthy wildlife species found in the wetland? 1 Wes No specify: 5 F27 Rare or endangered fish/wildlife species found in the wetland? H M L N/A L N/A L N/A L W/A H H N L W/A L W/A L W/A H W W L W/A H W W L W/A H W W L W/A Fish species observed or evidence seen (list) Yes No specify: 5 F27 Rare or endangered fish/wildlife species found in the wetland?	SF25 Are there any observed rare or endangered plant species? Specify.N. bellum	End	Thr	SpC	Red	Yellow	<i>5</i> 1	S2	(3)	N/A	
1b % cover in vegetation verus open water 2 Interspersion that best fits entire wetland 3 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity 6 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: 5F26 Does wetland support fish/fish habitat? Find Thr-SARA SpC Red Yellow S1 S2 S3 (V/A)	SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY										
2 Interspersion that best fits entire wetland H M L N/A 3 Wetland condition related to detritus H M L N/A 4 Interspersion of other wetlands in vicinity H M L 6 Barriers/restriction between wetland and other habitat C M H 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? Exceptional High Med (ow N/A 9 Fish species observed or evidence seen (list) Yes No list: 10 Wetland part of contiguous upland or wetland: >50ha 25-50ha 10-25ha (10h) 11 WL provides habitat for: Amphibians Reptiles Waterfowl Waterbirds (ammals Fish R/E species Species) Fish R/E species	1 Interspersion of open water and vegetation (open water types only)	Н	М								
3 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity 4 Interspersion of other wetlands in vicinity 5 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: 550 Does wetland support fish/fish habitat? 572 Rare or endangered fish/wildlife species found in the wetland? H M L N/A L N/A L N/A L N/A L N/A L N/A H M L N/A H M L N/A L N/A H M W L N/A H H M V L N/A N/A Spc Red Yellow S1 S2 S3 N/A	1b % cover in vegetation verus open water	100%									
4 Interspersion of other wetlands in vicinity 6 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? 8 Connected to permanent water (accessible to fish)? Fish species observed or evidence seen (list) 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: SF26 Does wetland support fish/fish habitat? Fish M N L N H M L H M H H M L N H H M H H M H H M H H M H H	2 Interspersion that best fits entire wetland	Н	М		N/A						
6 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? Fish species observed or evidence seen (list) Wetland part of contiguous upland or wetland: Wetland part of contiguous upland or wetland: Wetland support fish/fish habitat? SF26 Does wetland support fish/fish habitat? Find Thr-SARA SPC Red Yellow S1 S2 S3 W/A	3 Wetland condition related to detritus	Н	М	L	N/A						
7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: SF26 Does wetland support fish/fish habitat? SF27 Rare or endangered fish/wildlife species found in the wetland? Yes No List: No No No No No No No No No N	4 Interspersion of other wetlands in vicinity	Н	М	L							
8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: SF26 Does wetland support fish/fish habitat? SF27 Rare or endangered fish/wildlife species found in the wetland? Exceptional High Med Ow N/A Ilist: 10 Wetland Low N/A Ilist: Waterfowl Waterbirds Mammals Fish R/E species Waterfowl Waterbirds Mammals Fish R/E species Waterfowl Waterbirds Mammals Fish R/E species Fish R/E species Fish R/E species Fish R/E species	6 Barriers/restriction between wetland and other habitat	L	М	Н							
9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: SF26 Does wetland support fish/fish habitat? SF27 Rare or endangered fish/wildlife species found in the wetland? Yes No list: 10-25ha (10-25ha (10-	7 Noteworthy wildlife or evidence (birds, mammals, amphibians, etc)	Yes	No	list: Passerines	s, Deer						
10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: SF26 Does wetland support fish/fish habitat? SF27 Rare or endangered fish/wildlife species found in the wetland? SF30 Does wetland support fish/wildlife species found in the wetland? SF30 Does wetland support fish/wildlife species found in the wetland? SF30 Does wetland support fish/wildlife species found in the wetland? SF30 Does wetland support fish/wildlife species found in the wetland? SF30 Does wetland support fish/wildlife species found in the wetland? SF30 Does wetland support fish/wildlife species found in the wetland? SF30 Does wetland support fish/wildlife species found in the wetland? SF30 Does wetland support fish/wildlife species found in the wetland?	8 Connected to permanent water (accessible to fish)?	Exceptional	High	Med	Low	N/A					
11 WL provides habitat for: SF26 Does wetland support fish/fish habitat? SF27 Rare or endangered fish/wildlife species found in the wetland? SF27 Rare or endangered fish/wildlife species found in the wetland? SF28 Mo specify: SF29 Rare or endangered fish/wildlife species found in the wetland? SF29 Rare or endangered fish/wildlife species found in the wetland? SF29 Rare or endangered fish/wildlife species found in the wetland?	9 Fish species observed or evidence seen (list)	Yes	No	list:							
SF26 Does wetland support fish/fish habitat? SF27 Rare or endangered fish/wildlife species found in the wetland? Find Thr-SARA SpC Red Yellow S1 S2 S3 (V/A)	10 Wetland part of contiguous upland or wetland:	>50ha	25-50ha	10-25ha							
SF27 Rare or endangered fish/wildlife species found in the wetland? End Thr-SARA SpC Red Yellow S1 S2 S3 N/A	11 WL provides habitat for:	Amphibians	Reptiles	Waterfowl	Waterbirds	Mammals	Fish	R/E species			
	SF26 Does wetland support fish/fish habitat?	Yes	No	specify:							
	SF27 Rare or endangered fish/wildlife species found in the wetland?	End	Thr-SARA	SpC	Red	Yellow	S1	S2	<i>S3</i>	(V/A)	
SF28 Overall fish and wildlife habitat quality H M L	SF28 Overall fish and wildlife habitat quality	H	M	L							
SECTION ELEVEN: COMMUNITY USE/VALUE	SECTION ELEVEN: COMMUNITY USE/VALUE										
1 Describe community use VVCPCOPOPA,AVGB,E,HI, WV, BO,HU, PG, BP,F, E, R, Other:	1 Describe community use	VV,CP,	CO,PO,PA_	_,,AV,GB,E_	_,HI, WV	, BO,HU_	_, PG, BP	P,F, E, R	_, Other:		
	SF29 Rate the wetland's community use/value	Н	M								
	SF29 Kate the wetland's community use/value	H	IVI	(L)							

APPE	NDIX D: WL11 Nova Scotia Wetland Evaluation	Technique Fi	eld Data Sheet							
Proje	ct Name: Black Point Quarry	Evaluator: Sc	ott Burley		GPS Coordin	ates:	644458 E	x 5023456 N		
PID:3	5212497, 35212505, 35212521, 35212513, 35044056, 35214014, 35214022, 3521402	2 and 35213	990	Site Address: E	Black Point, G	uysborough (County, NS			
Sourc	es and Dates of Mapping/Images: NS Wetlands Inventory (2012); NS Forest Inventory	(Current For	est Data - 2004);	Google Earth (2	2003)					
Evalu	ation Date: 05-Sep-14	Site Visit Dat	e:	21-Aug-14						
Weat	her Conditions (past 48 hours): Sun and Clouds									
Seaso	nal Weather Conditions: Typical									
SECTI	ON ONE: WATERSHED CHARACTERISTICS									
1	Watershed Name (tertiary): 1EQ-SD	Size: 518	km²							
2	% Watershed Land Cover	For: 43	Nat: 36	Past/Hay: <1	Crop: <1	Urb/Com: 2	Road: <1	Other Dev: <1	(Gravel Pit	Landfill, Industrial
3	% Watershed WL Cover and by Class	Total: 10%	SM: <1	BO: 6	FE: 1	FM: 2	FS: 1	SS: 1	CP: <1	VP: Present
SF1	Watershed condition	Н		L						
SF2	Proportion of WL area in watershed & opportunity for floodwater detention	н (M	L						
SECTI	ON TWO: WETLAND CHARACTERISTICS									
Wetla	and Type: Bog	WL size: 9.0	hectares		Landform: F	lat		Landscape Pos	sition: Terre	ene
Wate	r flow path: Isolated	Wetland Ori	gin: Natural							
1	Water Regime	PF	SF	TF	ss (PS	RfT	IfT	AF	
2	# WL's within 30m project area	Total# 0	SM:	BO:	FE:	FM:	FS:	SS:	CP:	VP:
3	Is WL part of complex	Yes (No							
4	% each wetland type in complex	SM:	BO: 100	FE:	FM:	FS:	SS:	CP:	VP:	
5	Is WL bordering or associated with a lake or pond?	bordering		within 100m		N/A		specify		
6	Standing water?	Yes	Avg Dep: 0-10 c	m	% Inundated	l: 5%	No			
7	Inlet or Outlet (circle all that apply)?	Inlet	Outlet							
8	Adjacent Upland Land Use within 100m (%)	For: 40	Nat: 60	PasHay:	Crop:	UrbCm:	Road:	Other Dev:		
9	Are there stressors in WL or WL buffer area? Circle primary stressor(s).	DD, CW	, WcS, O/C,E	B,DP,F,	M, ES,NE	,DwP,				
		M,GC,A [·]	TV,DG,EA,	R,Rr,U/CI	D,F,FA	, other (speci				
10	Hydrology Altered (circle all that apply)?	Ditching	Dams	Tiles	Culvert	Well	Diversion	Other Specify:		
SF3	Rate the general wetland condition/integrity	H)	M	L						
SECTI	ON THREE: ADJACENT LAND CONDITION AND INTEGRITY									
1	Average width of adjacent naturalized buffer	>1000m	1							
2	Widths for water quality	H >1	M 8-15	L <8						
3	Widths for wildlife habitat	H >1 0 0	M 15-100	L <15						
4	Adjacent area vegetation condition (list % in each category)	H 100%	M	L						
5	Adjacent area diversity and structure (list % in each category)	H 100%	M	L						
6	Adjacent Upland Slope (list % in each category)	Steep 10%	Mod 30%	Gentle 60%						
7	Adjacent land supports water quality	Yes	No	Specify:						
		Yes	No	Specify:						
SF4	Rate the overall condition and integrity land adjacent to wetland	H	M	L	is buffer req	uired to mai	ntain red fla	ag functions of	wetland? I	yes if no
SECTI	ON FOUR: DOCUMENTED IMPORTANT FEATURES									
SE5	Is the WL a WSS?	Yes	No							

SF6 Does the WL support commercial/recreational fish/shellfish?	Yes	(No	\neg					
SF7 Species of concern (Fed/Prov)? Specify. Cladonia stygia	End	Thr - SARA	SpC	Red	Yellow S1	S2	<i>S3</i>	N/A
SF8 Wetland has conservation/compensation agreements/activity?	Yes	No	specify:					
SF9 Wetland is calcerous fen, black ash or cedar swamp?	Yes	No						
SF10 Within Drinking Water Protected Area (designated watershed/wellfield)	Yes	No	specify:					
SF11 WL within a floodplain and upstream of or within of a populated area?	Yes	No						
SF12 Fed/Prov/Municipal area of interest?	Yes	No	specify:					
SECTION FIVE: HYDROLOGIC CONDITION AND INTEGRITY								
1 Is WL source of stream or headwater(wc order 1 or 2)	Yes	No	Specify:					
2 Is WL geographically isolated?	Yes	No	Specify:					
3 WL ability to maintain characteristic hydrologic regime	High		Med		Low			
4 Water Storage Depth (list % in each class)	>30cm	15-30cm	up to 15cm	>	No ponding			
5 Signs of surface water retention observed?	SW_5_cm,	WSL_x_, WCD_	_, WMcm, SM	1cm, SD	, AD, ID, PMT_x_,	. AI, BT, AR_	_, Other:	
6 Describe observable/historical anthropogenic sediment delivery	Low		Med		High			
7 Disturbance of WL soils	Low		Med		High			
8 Predominant soils adjacent to WL	Sand		Silt/loam		Clay bedrock			
9 Capacity of WL to alter/retard flows	High		Med		Low			
10 Roughness coefficient for surface water flow path	High		Med		Low			
11 Strormwater/Wastewater/Agricultural runoff detention	High		Med		Low			
12 Water Source	Natural		Mostly natu	ral	Partly altered	Controlle	d	
13 Hydrology of tidal wetlands	Unrestricte	d _	Reduced		Restricted	N/A		
14 Coastal storm surge	Yes	No						
SF13 WL hydrologic condition	Natural	Modified		Significa	ntly Modified			
SF14 WL important for maintaining stream flow?	Yes	No						
SF15 WL ability to detain surface water	High	Med	Low					
SECTION SIX: WATER QUALITY								
1 Strormwater/Wastewater/Agricultural runoff as water source?	High		Med		Low			
2 Nutrients/sediments from surrounding land	High		Med		Low			
3 Significant flood/stormwater attenuation	Yes	No						
4 Vegetation capacity to settle suspended sediments	High		Med		Low			
5 WL type /landscape position holds/filters runoff?	Yes	No						
SF16 Wetland improves water quality?	Yes	No						
SF17 Evidence of excess nutrient loading/contamination?	(low)	Med	High					
SF18 WL contributes to water quality in downstream resources	High	Med	(Low)					
SECTION SEVEN: GROUNDWATER INTERACTIONS								
1 Describe soils in wetland	Recharge		Discharge	l				
2 Land use / run off in subwatershed upstream	Recharge		Discharge)				
3 Conditions of upland soils within 200m of wetland	Recharge		Discharge					
4 Hydroperiod of wetland	Recharge		Discharge					
5 Describe inlet/outlet configuration	Recharge	<u> </u>	Discharge					
6 Characterize topographic relief surrounding wetland	Recharge		Discharge					

SF20 WL serves as a discharge site SECTION EIGHT: SHORELINE STABILIZATION AND INTEGRITY 1 Wetland fringing ocean/estuary/lake/pond/river/stream? Yes No streamwidth >4m streamwidth<4m WB Exposed WB Sheltered	
1 Wetland fringing ocean/estuary/lake/pond/river/stream? Yes No streamwidth >4m streamwidth<4m WB Exposed WB Sheltered	
30/	
2 % cover of rooted vegetation in shallow water zone H >50% M 10-50 L <10%	
3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour H >10m M 3-10 L <3m	
4 Prevalence of strong-stemmed emerg. veg (shoreline marshes and fens only) High Med Low	
5 Describe shoreline erosion potential High Med Low	
6 Shoreline/streambank veg condition upslope of water level Low Med High Artificial	
SF21 WL ability to stabilize shoreline H M L N/A	
SECTION NINE: PLANT COMMUNITY	
1 Vegetation diversity High Med Low	
1b Dominant plant species and % cover in the WL list: Gaylussacia baccata (60%)/Trichophorum caesptiosus (20%)	
3 Dominant Non-native or Invasive species and % cover Yes (No) specify: %	
4 Vegetation Disturbance H M L specify type(s) below	
5 Disturbance Types H,ATV,G,,M,In, D/D, Im, OAH, Ii, Sd,E,,other,	
7 Vegetative Integrity of plant community	
SF22 Is the plant community unique or rare regionally or provincially? Yes no specify:	
SF22 Is the plant community unique or rare regionally or provincially? SF23 Does the WL contain a diversity of plant communities H M L	
SF24 Rate the overall integrity/quality of plant community?	
SF25 Are there any observed rare or endangered plant species? Specify. C.stygia End Thr SpC Red Yellow S1 S2 S3 N/A	
SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY	
1 Interspersion of open water and vegetation (open water types only) H M L	
1b % cover in vegetation verus open water95%	
2 Interspersion that best fits entire wetland H M L N/A	
3 Wetland condition related to detritus H M L N/A	
4 Interspersion of other wetlands in vicinity	
6 Barriers/restriction between wetland and other habitat L M H	
7 Noteworthy wildlife or evidence (birds, mammals, amphibians, etc) Yes No list: Passerines, Deer	
8 Connected to permanent water (accessible to fish)? Exceptional High Med Low N/A	
9 Fish species observed or evidence seen (list) Yes No list:	
10 Wetland part of contiguous upland or wetland: >50ha 25-50ha 10-25ha (10h)	
11 WL provides habitat for: Amphibians Reptiles Waterfowl Waterbirds Mammals Fish R/E species	
SF26 Does wetland support fish/fish habitat? Yes No specify:	
SF27 Rare or endangered fish/wildlife species found in the wetland? End Thr-SARA SpC Red Yellow S1 S2 S3 N/A	
SF28 Overall fish and wildlife habitat quality H M L	
SECTION ELEVEN: COMMUNITY USE/VALUE	
1 Describe community use VV,CPCO,PO,PA,,AV_x_,GB,E,HI, WV, BO,HU, PG_x_, BP_x_,F, E, R, Other:	
SF29 Rate the wetland's community use/value H M L	

APPEN	NOVA Scotia	Wetland Evaluation	Technique Fi	ield Data Sheet								
Project	t Name: Black Point Quarry		Evaluator: So	ott Burley		GPS Coordi	nates:	644737 E	x 5024077 N			
PID:35	212497, 35212505, 35212521, 35212513, 35044056, 3521401	1, 35214022, 3521402	22 and 35213	990	Site Address: I	Black Point, G	Guysborough C	ounty, NS				
Source	es and Dates of Mapping/Images: NS Wetlands Inventory (2012); NS Forest Inventory	(Current For	est Data - 2004)	; Google Earth (2003)						
Evalua	tion Date:	04-Sep-14	Site Visit Dat	e:	21-Aug-14	1						
Weath	ner Conditions (past 48 hours): Sun and Clouds											
Seasor	nal Weather Conditions: Typical											
SECTIO	ON ONE: WATERSHED CHARACTERISTICS											
1	Watershed Name (tertiary): 1EQ-SD		Size: 518	km²								
2 9	% Watershed Land Cover		For: 43	Nat: 36	Past/Hay: <1	Crop: <1	Urb/Com: 2	Road: <1	Other Dev: <1	(Gravel Pit	, Landfill, Ir	ndustrial
3	% Watershed WL Cover and by Class		Total: 10%	SM: <1	BO: 6	FE: 1	FM: 2	FS: 1	SS: 1	CP: <1	VP: Prese	nt
SF1	Watershed condition		Н	М	L							
SF2	Proportion of WL area in watershed & opportunity for floods	ater detention	H (M	L							
SECTIO	ON TWO: WETLAND CHARACTERISTICS											
Wetlar	nd Type: Bog/fen		WL size: 0.	.3 hectares		Landform: I	Basin		Landscape Po	sition: Terr	ene outflov	V
Water	flow path: Outflow		Wetland Orig	gin: Natural								
1	Water Regime		PF	SF	TF	SS	PS	RfT	IfT	AF		
2	# WL's within 30m project area		Total# 0	SM:	BO:	FE:	FM:	FS:	SS:	CP:	VP:	
3	Is WL part of complex		Yes	No								
4	% each wetland type in complex		SM:	BO: 20	FE: 80	FM:	FS:	SS:	CP:	VP:		
5	Is WL bordering or associated with a lake or pond?		bordering		within 100m		N/A		specify			
6	Standing water?		Yes	Avg Dep:		% Inundate	d:	\bigcirc				
	Inlet or Outlet (circle all that apply)?		Inlet	Outle								
8	Adjacent Upland Land Use within 100m (%)		For: 40	Nat: 60	PasHay:	Crop:	UrbCm:	Road:	Other Dev:			
9	Are there stressors in WL or WL buffer area? Circle primary stre	· '		, WcS, O/C,								
				TV,DG,EA_	_	1						
	Hydrology Altered (circle all that apply)?		Ditching	Dams	Tiles	Culvert	Well	Diversion	Other Specify			
SF3	Rate the general wetland condition/integrity		H)	M	L							
	ON THREE: ADJACENT LAND CONDITION AND INTEGRITY											
	Average width of adjacent naturalized buffer		>1000m									
	Widths for water quality	(H >1)	M 8-15	L <8							
	Widths for wildlife habitat	(H >1 0 0	M 15-100	L <15							
	Adjacent area vegetation condition (list % in each category)		H 100%	М	L							
	Adjacent area diversity and structure (list % in each category)		H 100%	М	L							
	Adjacent Upland Slope (list % in each category)		Steep 70%	Mod 25%	Gentle 5%							
	Adjacent land supports water quality		Yes	No	Specify:							
	Adjacent land supports wildlife habitat		Yes	No	Specify:							~
	Rate the overall condition and integrity land adjacent to wetl	and	θ	M	L	is buffer re	quired to mair	ntain red fl	ag functions of	wetland? I	f yes if no	<u> </u>
	ON FOUR: DOCUMENTED IMPORTANT FEATURES											
SF5	Is the WL a WSS?		Yes	(No								

SF6 Does the WL support commercial/recreational fish/shellfish?	Yes	(No						
SF7 Species of concern (Fed/Prov)? Specify. Usnea flammea	End	Thr - SARA	SpC	Red	Yellow S1	(52)	<i>S3</i>	N/A
SF8 Wetland has conservation/compensation agreements/activity?	Yes	No	specify:					
SF9 Wetland is calcerous fen, black ash or cedar swamp?	Yes	No						
SF10 Within Drinking Water Protected Area (designated watershed/wellfield)	Yes	No	specify:					
SF11 WL within a floodplain and upstream of or within of a populated area?	Yes	No						
SF12 Fed/Prov/Municipal area of interest?	Yes	No	specify:					
SECTION FIVE: HYDROLOGIC CONDITION AND INTEGRITY		_						
1 Is WL source of stream or headwater(wc order 1 or 2)	Yes	No	Specify:					
2 Is WL geographically isolated?	Yes	No	Specify:					
3 WL ability to maintain characteristic hydrologic regime	High		Med		Low			
4 Water Storage Depth (list % in each class)	>30cm	15-30cm	up to 15cm		No ponding			
5 Signs of surface water retention observed?	SWcm, W	/SL, WCD,	WMcm, SM	cm, SD, <i>A</i>		_, BT, AR,	Other:	
6 Describe observable/historical anthropogenic sediment delivery	Low		Med		High			
7 Disturbance of WL soils	Low		Med		High			
8 Predominant soils adjacent to WL	Sand		Silt/loam		Clay bedrock			
9 Capacity of WL to alter/retard flows	High		(Med)		Low			
10 Roughness coefficient for surface water flow path	High		Med		Low			
11 Strormwater/Wastewater/Agricultural runoff detention	High		Med		Low			
12 Water Source	Natural		Mostly natur	al	Partly altered	Controlle	d	
13 Hydrology of tidal wetlands	Unrestricte	d	Reduced		Restricted	N/A)		
14 Coastal storm surge	Yes	No						
SF13 WL hydrologic condition	Natural	Modified		Significa	ntly Modified			
SF14 WL important for maintaining stream flow?	Yes	No						
SF15 WL ability to detain surface water	High	Med	Low					
SECTION SIX: WATER QUALITY								
1 Strormwater/Wastewater/Agricultural runoff as water source?	High		Med		Low			
2 Nutrients/sediments from surrounding land	High		Med		Low			
3 Significant flood/stormwater attenuation	Yes	No)						
4 Vegetation capacity to settle suspended sediments	High		Med		Low			
5 WL type /landscape position holds/filters runoff?	(Yes)	No						
SF16 Wetland improves water quality?	Yes	No						
SF17 Evidence of excess nutrient loading/contamination?	(low)	Med	High					
SF18 WL contributes to water quality in downstream resources	High	Med	(Low)					
SECTION SEVEN: GROUNDWATER INTERACTIONS								
1 Describe soils in wetland	Recharge		Discharge					
2 Land use / run off in subwatershed upstream	Recharge		Discharge					
3 Conditions of upland soils within 200m of wetland	Recharge		Discharge					
4 Hydroperiod of wetland	Recharge		Discharge					
5 Describe inlet/outlet configuration	Recharge		Discharge					
6 Characterize topographic relief surrounding wetland	Recharge		Discharge					

SECTION BIGHT: SINGERLINE STABILIZATION AND INTEGRITY Vegtand fringing ocean/estuary/lake/pond/river/stream? Section Bight: Solver of rocted vegetation in shallow water zone H > 50% M 10:50 L < 10% Streamwidth > M	SECTION EIGHT: SHORELINE STABILIZATION AND INTEGRITY 1 Wetland fringing ocean/estuary/lake/pond/river/stream? 2 % cover of rooted vegetation in shallow water zone 3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour 4 Prevalence of strong-stemmed emerg, veg (shoreline marshes and fens only) 4 Prevalence of strong-stemmed emerg, veg (shoreline marshes and fens only) 5 Describe shoreline erosion potential 6 Shoreline/streambank veg condition upslope of water level Cov Med High Med Low Med High Artificial 6 Shoreline/streambank veg condition upslope of water level Low Med High Artificial 7 No Med High Artificial 8 Med Low Med High Artificial 9 Med Low Med High Artificial 9 Med Low Med High Artificial 1 No Med Med Med Low Med High Artificial 1 No Med						
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10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: SF26 Does wetland support fish/fish habitat? SF27 Rare or endangered fish/wildlife species found in the wetland? SF30 Does wetland support fish/wildlife species found in the wetland? SF30 Does wetland support fish/wildlife species found in the wetland? SF30 Does wetland support fish/wildlife species found in the wetland? SF30 Does wetland support fish/wildlife species found in the wetland? SF30 Does wetland support fish/wildlife species found in the wetland? SF30 Does wetland support fish/wildlife species found in the wetland? SF30 Does wetland support fish/wildlife species found in the wetland? SF30 Does wetland support fish/wildlife species found in the wetland? SF30 Does wetland support fish/wildlife species found in the wetland?	10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: SF26 Does wetland support fish/fish habitat? SF27 Rare or endangered fish/wildlife species found in the wetland? SF28 Overall fish and wildlife habitat quality >50ha 25-50ha 10-25ha Waterfowl Waterbird: SF26 No Specify: End Thr-SARA SpC Red H M L	N/A					
11 WL provides habitat for: SF26 Does wetland support fish/fish habitat? SF27 Rare or endangered fish/wildlife species found in the wetland? SF27 Rare or endangered fish/wildlife species found in the wetland? SF28 Mo specify: SF29 Rare or endangered fish/wildlife species found in the wetland? SF29 Rare or endangered fish/wildlife species found in the wetland? SF29 Rare or endangered fish/wildlife species found in the wetland? SF20 Rare or endangered fish/wildlife species found in the wetland?	11 WL provides habitat for: SF26 Does wetland support fish/fish habitat? SF27 Rare or endangered fish/wildlife species found in the wetland? SF28 Overall fish and wildlife habitat quality Amphibians Reptiles Waterfowl Waterbirds Fresh No specify: End Thr-SARA SpC Red H M L						
SF26 Does wetland support fish/fish habitat? SF27 Rare or endangered fish/wildlife species found in the wetland? Find Thr-SARA SpC Red Yellow S1 S2 S3 (N/A)	SF26 Does wetland support fish/fish habitat? SF27 Rare or endangered fish/wildlife species found in the wetland? SF28 Overall fish and wildlife habitat quality Yes NO specify: End Thr-SARA SpC Red H M L						
SF27 Rare or endangered fish/wildlife species found in the wetland? End Thr-SARA SpC Red Yellow S1 S2 S3 N/A	SF27 Rare or endangered fish/wildlife species found in the wetland? SF28 Overall fish and wildlife habitat quality End Thr-SARA SpC Red M L	ds Mammals	Fish	R/E species			
	SF28 Overall fish and wildlife habitat quality H M L						
		Yellow	51	S2	<i>S3</i>	N/A	
SF28 Overall fish and wildlife habitat quality H M M L L	SECTION ELEVEN: COMMUNITY USE/VALUE						
SECTION ELEVEN: COMMUNITY USE/VALUE							
1 Describe community use VVCPCOPOPA,,AVGB,E,HI, WV, BO,HU, PG, BP,F, E, R, Other:	1 Describe community use VV,CPCO,PO,PA,,AV,GB,E,HI, WV_	, BO,HU,	, PG, BP_	,F, E, R	_, Other:		
	SF29 Rate the wetland's community use/value H M L						

APPE	NDIX D: WL13	Nova Scotia Wetland Evaluation	Technique Fi	eld Data Sheet								
Proje	ct Name: Black Point Quarry		Evaluator: Sc	ott Burley		GPS Coordii	nates:	644860 E	x 5023362 N			
PID:3	5212497, 35212505, 35212521, 35212513, 3504405	56, 35214014, 35214022, 3521402	22 and 35213	990	Site Address: E	Black Point, G	uysborough C	ounty, NS				
Sourc	es and Dates of Mapping/Images: NS Wetlands Inve	entory (2012); NS Forest Inventory	(Current For	est Data - 2004);	Google Earth (2003)						
Evalu	ation Date:	04-Sep-14	Site Visit Dat	e:	21-Aug-14	1						
Weat	her Conditions (past 48 hours): Sun and Clouds											
Seaso	onal Weather Conditions: Typical											
SECTI	ON ONE: WATERSHED CHARACTERISTICS											
1	Watershed Name (tertiary): 1EQ-SD		Size: 518	km²								
2	% Watershed Land Cover		For: 43	Nat: 36	Past/Hay: <1	Crop: <1	Urb/Com: 2	Road: <1	Other Dev: <1	(Gravel Pit	, Landfill, I	ndustrial
3	% Watershed WL Cover and by Class		Total: 10%	SM: <1	BO: 6	FE: 1	FM: 2	FS: 1	SS: 1	CP: <1	VP: Prese	ent
SF1	Watershed condition		Н	М	L		•	•	•		•	
SF2	Proportion of WL area in watershed & opportunit	ty for floodwater detention	н (M	L							
SECTI	ON TWO: WETLAND CHARACTERISTICS											
Wetla	and Type: Treed Swamp		WL size: 0.	6 hectares		Landform: S	Slope		Landscape Po	sition: Terre	ene	
Wate	r flow path: Isolated		Wetland Orig	gin: Natural								
1	Water Regime		PF	SF	TF		PS	RfT	IfT	AF		
2	# WL's within 30m project area		Total# 0	SM:	BO:	FE:	FM:	FS:	SS:	CP:	VP:	
3	Is WL part of complex		Yes (No		•					•	
4	% each wetland type in complex		SM:	BO:	FE:	FM:	FS: 100	SS:	CP:	VP:		
5	Is WL bordering or associated with a lake or pond?		bordering		within 100m		N/A		specify			
6	Standing water?		Yes	Avg Dep:		% Inundate	d:					
7	Inlet or Outlet (circle all that apply)?		Inlet	Outlet								
8	Adjacent Upland Land Use within 100m (%)		For: 20	Nat: 80	PasHay:	Crop:	UrbCm:	Road:	Other Dev:			
9	Are there stressors in WL or WL buffer area? Circle	primary stressor(s).	DD, CW	, WcS, O/C,I	EB,DP,F,	M, ES,N	E,DwP,					
			M,GC,A	TV,DG,EA	, R,Rr,U/C	D,F,FA	_, other (speci	fy):				
10	Hydrology Altered (circle all that apply)?		Ditching	Dams	Tiles	Culvert	Well	Diversion	Other Specify:			
SF3	Rate the general wetland condition/integrity		H	М	L							
	ON THREE: ADJACENT LAND CONDITION AND INTE	GRITY										
	Average width of adjacent naturalized buffer		>1000m									
	Widths for water quality		H >1	M 8-15	L <8							
3	Widths for wildlife habitat		H >1 0 0	M 15-100	L <15							
	Adjacent area vegetation condition (list % in each o		H 100%	М	L							
	Adjacent area diversity and structure (list % in each	n category)	H 100%	М	L							
	Adjacent Upland Slope (list % in each category)		Steep 10%	Mod 70%	Gentle 20%							
7	Adjacent land supports water quality		Yes	No	Specify:							
	Adjacent land supports wildlife habitat		Yes	No	Specify:							
SF4	Rate the overall condition and integrity land adjac	cent to wetland	\bigoplus	M	L	is buffer red	quired to mair	ntain red fl	ag functions of	wetland? I	f yes if no	
SECTI	ON FOUR: DOCUMENTED IMPORTANT FEATURES											
SF5	Is the WL a WSS?		Yes	(No								

SF6 Does the WL support commercial/recreational fish/shellfish?	Yes	No						
SF7 Species of concern (Fed/Prov)? Specify.	End	Thr - SARA	SpC	Red	Yellow S1	52	<i>S3</i>	(N/A)
SF8 Wetland has conservation/compensation agreements/activity?	Yes	No	specify:					
SF9 Wetland is calcerous fen, black ash or cedar swamp?	Yes	No						
SF10 Within Drinking Water Protected Area (designated watershed/wellfield)	Yes	No	specify:					
SF11 WL within a floodplain and upstream of or within of a populated area?	Yes	No						
SF12 Fed/Prov/Municipal area of interest?	Yes	No	specify:					
SECTION FIVE: HYDROLOGIC CONDITION AND INTEGRITY								
1 Is WL source of stream or headwater(wc order 1 or 2)	Yes	No	Specify:					
2 Is WL geographically isolated?	Yes	No	Specify:					
3 WL ability to maintain characteristic hydrologic regime	High		Med		Low			
4 Water Storage Depth (list % in each class)	>30cm	15-30cm	up to 15cm		No ponding			
5 Signs of surface water retention observed?	SWcm, W	VSL, WCD,	WMcm, SM	cm, SD, <i>A</i>		_, BT, AR	, Other:	
6 Describe observable/historical anthropogenic sediment delivery	Low		Med		High			
7 Disturbance of WL soils	Low		Med		High			
8 Predominant soils adjacent to WL	Sand		Silt/loam		Clay bedrock			
9 Capacity of WL to alter/retard flows	High		Med		Low			
10 Roughness coefficient for surface water flow path	High		Med		Low			
11 Strormwater/Wastewater/Agricultural runoff detention	High		Med		Low			
12 Water Source	Natural		Mostly natur	al	Partly altered	Controlle	ed	
13 Hydrology of tidal wetlands	Unrestricte	d	Reduced		Restricted	N/A		
14 Coastal storm surge	Yes	No						
SF13 WL hydrologic condition	Natural	Modified		Significa	ntly Modified			
SF14 WL important for maintaining stream flow?	Yes	No						
SF15 WL ability to detain surface water	High	Med	Low					
SECTION SIX: WATER QUALITY								
1 Strormwater/Wastewater/Agricultural runoff as water source?	High		Med		Low			
2 Nutrients/sediments from surrounding land	High		Med		Low			
3 Significant flood/stormwater attenuation	Yes	No						
4 Vegetation capacity to settle suspended sediments	High		Med		Low			
5 WL type /landscape position holds/filters runoff?	Yes	(No)						
SF16 Wetland improves water quality?	Yes	No						
SF17 Evidence of excess nutrient loading/contamination?	(low)	Med	High					
SF18 WL contributes to water quality in downstream resources	High	Med	(Low)					
SECTION SEVEN: GROUNDWATER INTERACTIONS								
1 Describe soils in wetland	Recharge		Discharge					
2 Land use / run off in subwatershed upstream	Recharge		Discharge					
3 Conditions of upland soils within 200m of wetland	Recharge	>	Discharge					
4 Hydroperiod of wetland	Recharge		Discharge					
5 Describe inlet/outlet configuration	Recharge)	Discharge					
6 Characterize topographic relief surrounding wetland	Recharge		Discharge					

19 WL serves as a recharge site	Yes	No								
20 WL serves as a discharge site	Yes	No								
CTION EIGHT: SHORELINE STABILIZATION AND INTEGRITY										
1 Wetland fringing ocean/estuary/lake/pond/river/stream?	Yes	No	streamwidth >	>4m	streamwid	th<4m	WB Exposed	WB She	eltered	
2 % cover of rooted vegetation in shallow water zone	H >50%	M 10-50	L <10%					•		
3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour	H >10m	M 3-10	L <3m							
4 Prevalence of strong-stemmed emerg. veg (shoreline marshes and fens only)	High	Med	Low							
5 Describe shoreline erosion potential	High	Med	Low							
6 Shoreline/streambank veg condition upslope of water level	Low	Med	High	Artificial						
21 WL ability to stabilize shoreline	Н	М	L	N/A						
CTION NINE: PLANT COMMUNITY										
1 Vegetation diversity	High	Med	Low							
1b Dominant plant species and % cover in the WL	list: Picea m	nariana (60%)/A	cer rubrum (30%)					•		
3 Dominant Non-native or Invasive species and % cover	Yes	No	specify: %							
4 Vegetation Disturbance	Н	M		specify typ	e(s) below					
5 Disturbance Types	H,ATV_	,G,,M,	In, D/D, Im	, OAH	_, Ii, Sd	_,E,,oth	er,			
7 Vegetative Integrity of plant community	(E)	Н	М	L						
Is the plant community unique or rare regionally or provincially?	Yes	no	specify:							
23 Does the WL contain a diversity of plant communities	Н	M	L							
Rate the overall integrity/quality of plant community?	(H)	М	L							
25 Are there any observed rare or endangered plant species? Specify.	End	Thr	SpC	Red	Yellow	<i>S</i> 1	S2	<i>S3</i>	(V/A)	
CTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY										
1 Interspersion of open water and vegetation (open water types only)	Н	М								
% cover in vegetation verus open water	100%	ó								
2 Interspersion that best fits entire wetland	Н	М		N/A						
3 Wetland condition related to detritus	Н	М	L	N/A						
4 Interspersion of other wetlands in vicinity	(H)	М	L							
6 Barriers/restriction between wetland and other habitat		М	Н							
7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc)	Yes	No	list: Passerine	s						
8 Connected to permanent water (accessible to fish)?	Exceptional	l High	Med	Low	N/A					
9 Fish species observed or evidence seen (list)	Yes	No	list:							
10 Wetland part of contiguous upland or wetland:	>50ha	25-50ha	10-25ha	<10h						
11 WL provides habitat for:	Amphibians		Waterfowl	Waterbird	s M ammals	Fish	R/E species			
Does wetland support fish/fish habitat?	Yes	No	specify:							
Rare or endangered fish/wildlife species found in the wetland?	End	Thr-SARA	SpC	Red	Yellow	<i>5</i> 1	S2	<i>S3</i>	N/A	
28 Overall fish and wildlife habitat quality	H	M	L							
CTION ELEVEN: COMMUNITY USE/VALUE										
1 Describe community use	VV,CP,	,CO,PO,PA_	_,,AV,GB,E_	_,HI, WV_	, BO,HU_	_, PG, BF	,F, E, R	, Other:		
Rate the wetland's community use/value	Н	M								

APPE	NDIX D: WL14 Nova Scotia Wetland Evaluation	n Technique F	ield Data Sheet							
Projec	t Name: Black Point Quarry	Evaluator: So	cott Burley		GPS Coordi	nates:	645506 E	x 5023190 N		
PID:3	5212497, 35212505, 35212521, 35212513, 35044056, 35214014, 35214022, 352140	22 and 35213	990	Site Address: E	Black Point, G	auysborough C	County, NS			
Sourc	es and Dates of Mapping/Images: NS Wetlands Inventory (2012); NS Forest Inventor	y (Current For	rest Data - 2004);	Google Earth (2003)					
Evalua	ation Date: 04-Sep-14	Site Visit Dat	te:	19-Aug-14	1					
Weat	ner Conditions (past 48 hours): Periods of rain with clouds; sun and cloud									
Seaso	nal Weather Conditions: Typical									
SECTI	ON ONE: WATERSHED CHARACTERISTICS									
1	Watershed Name (tertiary): 1EQ-SD	Size: 518	km²							
2	% Watershed Land Cover	For: 43	Nat: 36	Past/Hay: <1	Crop: <1	Urb/Com: 2	Road: <1	Other Dev: <1	(Gravel Pit	, Landfill, Industrial
3	% Watershed WL Cover and by Class	Total: 10%	SM: <1	BO: 6	FE: 1	FM: 2	FS: 1	SS: 1	CP: <1	VP: Present
SF1	Watershed condition	Н	М	L						
SF2	Proportion of WL area in watershed & opportunity for floodwater detention	Н (M	L						
SECTI	ON TWO: WETLAND CHARACTERISTICS									
Wetla	nd Type: Fen/Bog	WL size: 6	5.2 hectares		Landform: S	Slope		Landscape Pos	ition: Lotic	Stream-Confined
Wate	flow path: Throughflow	Wetland Orig								
1	Water Regime	PF (SF	TF	SS	PS	RfT	IfT	AF	
2	# WL's within 30m project area	Total# 0	SM:	BO:	FE:	FM:	FS:	SS:	CP:	VP:
3	Is WL part of complex	Yes	No							
4	% each wetland type in complex	SM:	BO: 79	FE: 21	FM:	FS:	SS:	CP:	VP:	
5	Is WL bordering or associated with a lake or pond?	bordering		within 100m		N/A		specify:		
6	Standing water?	Yes	Avg Dep:		% Inundate	d:	(No			
7	Inlet or Outlet (circle all that apply)?	Inlet	Outlet							
8	Adjacent Upland Land Use within 100m (%)	For: 80	Nat: 20	PasHay:	Crop:	UrbCm:	Road:	Other Dev:		
9	Are there stressors in WL or WL buffer area? Circle primary stressor(s).	DD, CW	, WcS, O/C,E	B,DP,F,	M, ES,N	E,DwP,				
		M,GC,A	.TV,DG_x_,EA_	_, R,Rr,U/(CD,F_x_,FA	$\lambda_{_}$, other (spe	ecify):			
10	Hydrology Altered (circle all that apply)?	Ditching	Dams	Tiles	Culvert	Well	Diversion	Other Specify:		
SF3	Rate the general wetland condition/integrity	H	М	L						
SECTI	ON THREE: ADJACENT LAND CONDITION AND INTEGRITY									
1	Average width of adjacent naturalized buffer	>1000m	n							
2	Widths for water quality	H >1	M 8-15	L <8						
3	Widths for wildlife habitat	H >100	M 15-100	L <15						
4	Adjacent area vegetation condition (list % in each category)	H 100%	М	L						
5	Adjacent area diversity and structure (list % in each category)	H 100%	М	L						
6	Adjacent Upland Slope (list % in each category)	Steep 5%	Mod 45%	Gentle 50%						
7	Adjacent land supports water quality	Yes	No	Specify:						
8	Adjacent land supports wildlife habitat	Yes	No	Specify:						
SF4	Rate the overall condition and integrity land adjacent to wetland	H	М	L	is buffer re	quired to mai	ntain red fl	ag functions of	wetland? I	f yes if no
SECTI	ON FOUR: DOCUMENTED IMPORTANT FEATURES									
SF5	Is the WL a WSS?	Yes	(No							

SF6 Does the WL support commercial/recreational fish/shellfish?	Yes	(No)						
SF7 Species of concern (Fed/Prov)? Specify.	End	Thr	SpC	Red	Yellow S1	<i>S2</i>	<i>S3</i>	(N/A)
SF8 Wetland has conservation/compensation agreements/activity?	Yes	No	specify:					
SF9 Wetland is calcerous fen, black ash or cedar swamp?	Yes	No						
SF10 Within Drinking Water Protected Area (designated watershed/wellfield)	Yes	No	specify:					
SF11 WL within a floodplain and upstream of or within of a populated area?	Yes	No						
SF12 Fed/Prov/Municipal area of interest?	Yes	No	specify:					
SECTION FIVE: HYDROLOGIC CONDITION AND INTEGRITY								
1 Is WL source of stream or headwater(wc order 1 or 2)	Yes	No	Specify: Unna	amed strear	n flow thorugh wetland	to the souther	ast	
2 Is WL geographically isolated?	Yes	No	Specify:					
3 WL ability to maintain characteristic hydrologic regime	High		Med		Low			
4 Water Storage Depth (list % in each class)	>30cm	15-30cm	up to 15cm		No ponding			
5 Signs of surface water retention observed?	SWcm, W	VSL_x_, WCD	_, WMcm, SM	_cm, SD,		, BT, AR_	_, Other:	
6 Describe observable/historical anthropogenic sediment delivery	Low		Med		High			
7 Disturbance of WL soils	Low		Med		High			
8 Predominant soils adjacent to WL	Sand		Silt/loam		Clay bedrock			
9 Capacity of WL to alter/retard flows	High		Med		Low			
10 Roughness coefficient for surface water flow path	High		Med		Low			
11 Strormwater/Wastewater/Agricultural runoff detention	High		Med		Low			
12 Water Source	Natural		Mostly natur	al	Partly altered	Controlle	ed .	
13 Hydrology of tidal wetlands	Unrestricte	d	Reduced		Restricted	N/A		
14 Coastal storm surge	Yes	No						
SF13 WL hydrologic condition	Natural	Modified		Significa	ntly Modified			
SF14 WL important for maintaining stream flow?	Yes	No						
SF15 WL ability to detain surface water	High	Med	Low					
SECTION SIX: WATER QUALITY								
1 Strormwater/Wastewater/Agricultural runoff as water source?	High		Med		Low			
2 Nutrients/sediments from surrounding land	High		Med		Low			
3 Significant flood/stormwater attenuation	Yes	No						
4 Vegetation capacity to settle suspended sediments	High		Med		Low			
5 WL type /landscape position holds/filters runoff?	Yes	No						
SF16 Wetland improves water quality?	Yes	No						
SF17 Evidence of excess nutrient loading/contamination?	(low)	Med	High					
SF18 WL contributes to water quality in downstream resources	High	Med	Low					
SECTION SEVEN: GROUNDWATER INTERACTIONS								
1 Describe soils in wetland	Recharge		Discharge					
2 Land use / run off in subwatershed upstream	Recharge		Discharge					
3 Conditions of upland soils within 200m of wetland	Recharge		Discharge					
4 Hydroperiod of wetland	Recharge		Discharge					
5 Describe inlet/outlet configuration	Recharge		Qischarge)				
6 Characterize topographic relief surrounding wetland	Recharge		Discharge					

SECTION EIGHT: SHORELINE STABILIZATION AND INTEGRITY We transport fronted vegetation in shallow water zone	SF19 WL serves as a recharge site	Yes	No								
1 Wetland fringing ocean/estuary/lake/pond/river/stream? 2 % cover of rooted vegetation in shallow water zone 3 Avg veg W. width by % workerline/streambank & 2 m depth contour 4 Prevalence of strong stemmed emerg, veg (shoreline marshes and fens only) 4 Prevalence of strong stemmed emerg, veg (shoreline marshes and fens only) 5 Describe shoreline erosion potential 6 Shoreline/streambank veg condition upslope of water level Cov Med (ligh) Artificial 7 Execution in the stabilize shoreline 1 Vegetation diversity 1 Vegetation diversity 1 Vegetation diversity 1 Vegetation diversity 1 Vegetation Disturbance of the WL 3 Dominant Non-native or Invasive species and % cover Yes 3 Dominant Non-native or Invasive species and % cover Yes 5 Disturbance Types 1 H ATV G, M, M L Specify type(s) below: 5 Disturbance Types 7 Vegetative integrity of plant community E H M L SP23 Dest WL continue or accordance	SF20 WL serves as a discharge site	Yes	No								
2 Score of rooted vegetation in shallow water zone H > 50% M 10-50 < 10%	SECTION EIGHT: SHORELINE STABILIZATION AND INTEGRITY										
3 Ang veg WL width b/w shoreline/streambank & 2 m depth contour 4 Prevalence of strong-stemmed emerg, veg (shoreline marshes and fens only) 5 Describe shoreline erosion potential 6 Shoreline/streambank veg condition upslope of water level 1 Low Med Ligh Artificial 5 SECTION NINE: PLANT COMMUNITY 1 Vegetation diversity 1 Uvegetation diversity 1 Uvegetation diversity 1 Dominant plant species and % cover in the WL list: Gaylussacia baccata (30%)/Morelia pensylvanica (20%)/ Eriophorum virginicum (15%) 3 Dominant Non-native or Invasive species and % cover 4 Vegetation Disturbance 4 Vegetation Disturbance 5 Disturbance Types 6 Disturbance Types 7 Vegetative Integrity of plant community 8 H ATV G, M, In D/D, Im ,OAH II ,Sd E, other, 7 Vegetative Integrity of plant communities 9 H M L Specify: 9 Section Spec	1 Wetland fringing ocean/estuary/lake/pond/river/stream?	Yes	No	streamwidth >	4m	streamwidt	h<4m	WB Exposed	WB Shel	ltered	
4 Prevalence of strong-stemmed emerg, veg (shoreline marshes and fens only) 5 Describe shoreline erosion potential 6 Shoreline fystembank veg condition upslope of water level Low Med High Artificial 5F21 WL ability to stabilize shoreline 8 CECTION NINE: PLANT COMMUNITY 1 Vegetation diversity 1 Dominant plant species and % cover in the WL list: Gaylussocia baccata (30%)/Morella pensylvanica (20%)/ Eriophorum virginicum (15%) 3 Dominant Non-native or invasive species and % cover 4 Vegetation Disturbance 4 Vegetation Disturbance 5 Disturbance Types 5 Disturbance Types 7 Vegetative Integrity of plant community 7 Vegetative Integrity of plant community unique or rare regionally or provincially? 5 P22 Is the plant community unique or rare regionally or provincially? 5 P23 Aga the overall integrity/quality of plant communities 8 H M L 8 Specify Specify Specify and the overall integrity/quality of plant community? 1 Interspersion of open water and vegetation (open water types only) 1 Interspersion of open water and vegetation (open water 1 M M L 1 N/A 1 Interspersion of open water and vegetation (open water 1 M M L 2 N/A 3 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity 4 Interspersion of other wetlands in vicinity 5 P3 Noteworthy wildlife or evidence (birds, mammals, amphibians, etc) 8 Connected to permanent water (accessible to fish)? 8 Connected to permanent water (accessible to fish)? 8 Exceptional High Med (ow) N/A	2 % cover of rooted vegetation in shallow water zone	H >50%	M 10-50	L <10%					-		
Section Shoreline Shorel	3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour	H >10m	M 3-10	L <3m							
6 Shoreline/streambank veg condition upslope of water level Low Med Gigh Artificial SF21 WL ability to stabilize shoreline H M L N/A SECTION NINE: PLANT COMMUNITY 1 Vegetation diversity High Med Low	4 Prevalence of strong-stemmed emerg. veg (shoreline marshes and fens only)	High	Med	_							
SECTION NINE: PLANT COMMUNITY Vegetation diversity High Meg Low Lo	5 Describe shoreline erosion potential	High	Med	Low							
SECTION NINE: PLANT COMMUNITY 1 Vegetation diversity High Med Low 1 Dominant plant species and % cover in the WL list: Gaylussacia baccata (30%)/Morella pensylvanica (20%)/ Eriophorum virginicum (15%) 3 Dominant Non-native or invasive species and % cover Yes No Specify: % 4 Vegetation Disturbance H M L Specify type(s) below: 5 Disturbance Types H _ATV _ G _,M _ In _ D/D _ Im _ OAH _ Ii _, Sd _ E _,other _, 7 Vegetative Integrity of plant community E H M L 5F22 Is the plant community unique or rare regionally or provincially? Yes no specify: 5F23 Does the WL contain a diversity of plant communities H M L 5F24 Rate the overall integrity/quality of plant community? H M L 5F25 Are there any observed rare or endangered plant species? Specify. End Thir SpC Red Yellow S1 S2 S3 (V/A S) 5ECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY Interspersion of open water and vegetation (open water types only) H M L 10 % cover in vegetation verus open water 85	6 Shoreline/streambank veg condition upslope of water level	Low	Med	High	Artificial						
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7 Vegetative Integrity of plant community E H M L 5F22 Is the plant community unique or rare regionally or provincially? F523 Does the WL contain a diversity of plant communities H M L 5F24 Rate the overall integrity/quality of plant community? F525 Are there any observed rare or endangered plant species? Specify. F526 Are there any observed rare or endangered plant species? Specify. F527 Are there any observed rare or endangered plant species? Specify. F528 Are there any observed rare or endangered plant species? Specify. F529 Are there any observed rare or endangered plant species? Specify. F520 Red Vellow S1 S2 S3 WA F521 Interspersion of open water and vegetation (open water types only) I Interspersion of open water and vegetation verus open water 2 Interspersion that best fits entire wetland H M L N/A 3 Wetland condition related to detritus H M L N/A 4 Interspersion of other wetlands in vicinity H M L 6 Barriers/restriction between wetland and other habitat T Noteworthy wildlife or evidence (birds, mammals, amphibians, etc) F520 No list: Dragon flies, Passerines Exceptional High Med (ow) N/A	4 Vegetation Disturbance	Н	M (L	Specify type	(s) below:					
Second Connected to permanent water (accessible to fish)? Second Connected to permanent water (accessible to fish)? Second Connected to permanent water (accessible to fish)? Exceptional High Med	5 Disturbance Types	H,ATV	_,G,,M,In	, D/D, lm_	, OAH,	Ii, Sd	,E,,othe	r,			
SF23 Does the WL contain a diversity of plant communities H M L	7 Vegetative Integrity of plant community	E	Н	М	L						
SF24 Rate the overall integrity/quality of plant community?	SF22 Is the plant community unique or rare regionally or provincially?	Yes (no	specify:							
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1b % cover in vegetation verus open water 2 Interspersion that best fits entire wetland 3 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity 6 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians, etc) 8 Connected to permanent water (accessible to fish)? Exceptional High M L N/A L N/A BL N/A H M L N/A M L N/A M H M M M M M M M M M M M	SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY										
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7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? Exceptional High Med Low N/A	4 Interspersion of other wetlands in vicinity	Н	M	L							
8 Connected to permanent water (accessible to fish)? Exceptional High Med Low N/A	6 Barriers/restriction between wetland and other habitat	L	М	Н							
	7 Noteworthy wildlife or evidence (birds, mammals, amphibians, etc)	Yes	No	list: Dragon flie	es, Passerines						
	8 Connected to permanent water (accessible to fish)?	Exceptional	High	Med	Low	N/A					
9 Fish species observed or evidence seen (list) Yes No list:	9 Fish species observed or evidence seen (list)	Yes		list:							
10 Wetland part of contiguous upland or wetland: >50ha 25-50ha 10-25ha <10h	10 Wetland part of contiguous upland or wetland:	>50ha	25-50ha	10-25ha							
11 WL provides habitat for: Amphibians Reptiles Waterfowl Waterbirds Mammals Fish R/E species	11 WL provides habitat for:	Amphibians	Reptiles	Waterfowl	Waterbirds	Mammals	Fish	R/E species			
SF26 Does wetland support fish/fish habitat? Yes No specify:	SF26 Does wetland support fish/fish habitat?	Yes	No	specify:							
SF27 Rare or endangered fish/wildlife species found in the wetland? End Thr SpC Red Yellow S1 S2 S3 N/A	SF27 Rare or endangered fish/wildlife species found in the wetland?	End	Thr	SpC	Red	Yellow	S1	S2	<i>S3</i>	N/A)	
SF28 Overall fish and wildlife habitat quality H M L	SF28 Overall fish and wildlife habitat quality	H	M	L							
SECTION ELEVEN: COMMUNITY USE/VALUE	SECTION ELEVEN: COMMUNITY USE/VALUE										
1 Describe community use VVCPCOPOPA,AVGBEHI, WV, BOHU, PG, BP,F, E, R, Other:	1 Describe community use	VV,CP,C	CO,PO,PA,	,AV,GB,E_	,HI, WV	, BO,HU	, PG, BP_	_,F, E, R	, Other:		
	SF29 Rate the wetland's community use/value		М	L	T			-			

APPEN	NDIX D: WL15 Nova Sco	otia Wetland Evaluation T	echnique Fi	ield Data Sheet								
Projec	t Name: Black Point Quarry	E	valuator: Sc	ott Burley		GPS Coordin	nates:	645265 E	x 5023544 N			
PID:35	5212497, 35212505, 35212521, 35212513, 35044056, 35214	014, 35214022, 35214022	and 352139	990	Site Address: E	Black Point, G	uysborough C	ounty, NS				
Source	es and Dates of Mapping/Images: NS Wetlands Inventory (20	012); NS Forest Inventory (Current For	est Data - 2004);	Google Earth (2003)						
Evalua	ation Date:	10-Sep-14 S	ite Visit Dat	e:	21-Aug-14	ļ						
Weath	ner Conditions (past 48 hours): Sun and Clouds											
Seasor	nal Weather Conditions: Typical											
SECTIO	ON ONE: WATERSHED CHARACTERISTICS											
1	Watershed Name (tertiary): 1EQ-SD	S	ize: 518	km²								
2	% Watershed Land Cover	F	or: 43	Nat: 36	Past/Hay: <1	Crop: <1	Urb/Com: 2	Road: <1	Other Dev: <1	(Gravel Pit	, Landfill, In	dustrial
3	% Watershed WL Cover and by Class	Т	otal: 10%	SM: <1	BO: 6	FE: 1	FM: 2	FS: 1	SS: 1	CP: <1	VP: Preser	nt
SF1	Watershed condition	H	I	М			•		•		•	
SF2	Proportion of WL area in watershed & opportunity for floo	odwater detention H	1 (M)	L							
SECTIO	ON TWO: WETLAND CHARACTERISTICS											
Wetlar	nd Type: Fen	V	VL size: 0.	.07 hectares		Landform: S	lope		Landscape Pos	sition: Lotic	Stream-Co	nfined
Water	flow path: Throughflow	V	Vetland Orig	gin: Natural								
1	Water Regime	P	F	SF	TF		PS	RfT	IfT	AF		
2	# WL's within 30m project area	Т	otal# 0	SM:	BO:	FE:	FM:	FS:	SS:	CP:	VP:	
3	Is WL part of complex	Υ	es (No								
4	% each wetland type in complex	S	M:	BO:	FE: 100	FM:	FS:	SS:	CP:	VP:		
5	Is WL bordering or associated with a lake or pond?	b	ordering		within 100m		N/A)		specify			
6	Standing water?	Q Y	es	Avg Dep: 5-10		% Inundated	d: <5%	No				
7	Inlet or Outlet (circle all that apply)?	(I	nlet	Outle								
8	Adjacent Upland Land Use within 100m (%)	F	or: 30	Nat: 70	PasHay:	Crop:	UrbCm:	Road:	Other Dev:			
9	Are there stressors in WL or WL buffer area? Circle primary	stressor(s).	D, CW	, WcS, O/C,I	B,DP,F,	M, ES,NE	E,DwP,					
		N	/I,GC,A [.]	TV,DG,EA	, R,Rr,U/C	D,F,FA	, other (speci	fy): Skidder	track though so	outh side of	wetland	
10	Hydrology Altered (circle all that apply)?	D	itching	Dams	Tiles	Culvert	Well	Diversion	Other Specify:			
SF3	Rate the general wetland condition/integrity	(H	\supset	M	L							
SECTIO	ON THREE: ADJACENT LAND CONDITION AND INTEGRITY											
1	Average width of adjacent naturalized buffer	_	_>1000m	n e								
2	Widths for water quality		>1	M 8-15	L <8							
3	Widths for wildlife habitat		>100	M 15-100	L <15							
	Adjacent area vegetation condition (list % in each category)		100%	М	L							
5	Adjacent area diversity and structure (list % in each categor	y) H	I 100%	М	L							
	Adjacent Upland Slope (list % in each category)		teep 60%	Mod 30%	Gentle 10%							
7	Adjacent land supports water quality	<u> </u>	es)	No	Specify:							
8	Adjacent land supports wildlife habitat	<u> </u>	es	No	Specify:							
SF4	Rate the overall condition and integrity land adjacent to w	retland (F		М	L	is buffer req	quired to main	ntain red fla	ag functions of	wetland? I	f yes if no	
SECTIO	ON FOUR: DOCUMENTED IMPORTANT FEATURES											
SF5	Is the WL a WSS?	Y	'es	(No								

SF6 Does the WL support commercial/recreational fish/shellfish?	Yes	No						
SF7 Species of concern (Fed/Prov)? Specify.	End	Thr - SARA	SpC	Red	Yellow S1	<i>S2</i>	<i>S3</i>	(N/A)
SF8 Wetland has conservation/compensation agreements/activity?	Yes	No	specify:					
SF9 Wetland is calcerous fen, black ash or cedar swamp?	Yes	No						
SF10 Within Drinking Water Protected Area (designated watershed/wellfield)	Yes	No	specify:					
SF11 WL within a floodplain and upstream of or within of a populated area?	Yes	No						
SF12 Fed/Prov/Municipal area of interest?	Yes	No	specify:					
SECTION FIVE: HYDROLOGIC CONDITION AND INTEGRITY								
1 Is WL source of stream or headwater(wc order 1 or 2)	Yes	No	Specify:					
2 Is WL geographically isolated?	Yes	No	Specify:					
3 WL ability to maintain characteristic hydrologic regime	High		Med		Low			
4 Water Storage Depth (list % in each class)	>30cm	15-30cm	up to 15cm		No ponding			
5 Signs of surface water retention observed?	SW_5_cm, \	WSL, WCD	, WMcm, SM_	cm, SD,	AD, ID, PMT_x_, AI	, BT, AR_	_, Other:	
6 Describe observable/historical anthropogenic sediment delivery	Low		Med		High			
7 Disturbance of WL soils	Low		Med		High			
8 Predominant soils adjacent to WL	Sand		Silt/loam		Clay bedrock			
9 Capacity of WL to alter/retard flows	High		Med		Low			
10 Roughness coefficient for surface water flow path	High		Med		Low			
11 Strormwater/Wastewater/Agricultural runoff detention	High		Med		Low			
12 Water Source	Natural		Mostly natu	ral	Partly altered	Controlle	ed	
13 Hydrology of tidal wetlands	Unrestricte	d	Reduced		Restricted	N/A		
14 Coastal storm surge	Yes	No						
SF13 WL hydrologic condition	Natural	Modified		Significa	ntly Modified			
SF14 WL important for maintaining stream flow?	Yes	No						
SF15 WL ability to detain surface water	High	(Med)	Low					
SECTION SIX: WATER QUALITY								
1 Strormwater/Wastewater/Agricultural runoff as water source?	High		Med		Low			
2 Nutrients/sediments from surrounding land	High		Med		Low			
3 Significant flood/stormwater attenuation	Yes	No						
4 Vegetation capacity to settle suspended sediments	High		Med		Low			
5 WL type /landscape position holds/filters runoff?	(Yes)	No						
SF16 Wetland improves water quality?	Yes	No						
SF17 Evidence of excess nutrient loading/contamination?	Low	Med	High					
SF18 WL contributes to water quality in downstream resources	High	Med	(Low)					
SECTION SEVEN: GROUNDWATER INTERACTIONS								
1 Describe soils in wetland	Recharge		Discharge					
2 Land use / run off in subwatershed upstream	Recharge		Discharge)				
3 Conditions of upland soils within 200m of wetland	Recharge		Discharge					
4 Hydroperiod of wetland	Recharge		Discharge					
5 Describe inlet/outlet configuration	Recharge		Discharge					
6 Characterize topographic relief surrounding wetland	Recharge		Discharge					

SECTION INSERTING SIDERLINE STABILIZATION AND INTEGRITY SECTION SIGHT: SHORELINE STABILIZATION AND INTEGRITY Wetland fringing ocean/estuary/lake/pond/river/stream? Wetland fringing ocean/estuary/lake/pond/river/str	SF19 WL serves as a recharge site	Yes	No								
1 Wetland fringing ocean/estuary/lake/pond/river/stream? Ne No streamwidth >4m WB Exposed WB Sheltered 2 % cover of rooted vegetation in shallow water zone 1 50 M 3-10 L 10% 3 Avg yeg W. width Dw Noroeline/streambank & 2 m depth contour 1 100 M 3-10 L 3m 4 Prevalence of strong-stemmed emerg. yeg (shoreline marshes and fens only) High Med Low 5 Describe shoreline erostong potential High Med Low 6 Shoreline/streambank veg condition upslope of water level Low Med High Artificial 7 Wagetation diversity High Med Low 7 Wagetation diversity High Med Low 7 Wegetation observable of the water of lowershy High Med Low 8 Specify: % Specify: % 9 Dominant Non-native or Invasive species and % cover Yes No Specify: % 9 Specify: % H ATV G M In D/D In DAH II Sd E Other x Skidder trail 9 Specify: % Specify: % Specify: % 9 Dominant Non-native or Invasive species and % cover Yes No Specify: % 9 Dominant Non-native or Invasive species and % cover Yes No Specify: % 9 H ATV G M In D/D In DAH II Sd E Other x Skidder trail 9 Specify: % Specify: %	SF20 WL serves as a discharge site	Yes	No								
2 Scover of rooted vegetation in shallow water zone HC>50 M 10-50 L <10%	SECTION EIGHT: SHORELINE STABILIZATION AND INTEGRITY										
3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour 4 Prevalence of strong-stemmed emerg, veg (shoreline marshes and fens only) High Med Cow	1 Wetland fringing ocean/estuary/lake/pond/river/stream?	Yes	No	streamwidth >	>4m	streamwid	th<4m	WB Exposed	WB Shel	ltered	
4 Prevalence of strong-stemmed emerg, veg (shoreline marshes and fens only) 5 Describe shoreline erosion potential 6 Shoreline forsion potential 6 Shoreline forsion upslope of water level Low Med (tigh) Artificial 5F21 Mt ability to stabilize shoreline SECTION NINE: PLANT COMMUNITY 1 [Vegetation diversity 1 [Vegetation diversity 1 [Vegetation push of unastive or invasive species and % cover in the WL 3 Dominant plant species and % cover in the WL 4 Vegetation Disturbance 4 Vegetation Disturbance H M L 5 Disturbance Types 7 Vegetative Integrity of plant community E H M L 5F22 (Is the plant community unique or rare regionally or provincially? 5F23 Does the WL contain a diversity of plant community? F572 Does the WL contain a diversity of plant community? H M L 5F25 Are there any observed rare or endangered plant species? Specify. 5F26 Are there any observed rare or endangered plant species? Specify. 5F27 Interspersion of open water and vegetation (open water types only) 1 [Interspersion of other wetlands in vicinity 4 [Interspersion of other wetlands in vicinity 5 [Stable Stable Stab	2 % cover of rooted vegetation in shallow water zone	H >50%	M 10-50	L <10%					•		
Signature Shoreline erosion potential High Med Gow	3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour	H >10m	M 3-10	L <3m							
Shoreline/streambank veg condition upslope of water level Low Med Righ Artificial	4 Prevalence of strong-stemmed emerg. veg (shoreline marshes and fens only)	High	Med								
Shoreline/streambank veg condition upslope of water level Low Med Righ Artificial	5 Describe shoreline erosion potential	High	Med	Low							
SECTION NINE: PLANT COMMUNITY 1 Vegetation diversity 1 b Dominant plant species and % cover in the WL 3 Dominant Non-native or Invasive species and % cover 4 Vegetation Disturbance 5 Disturbance Types 6 b Disturbance Types 7 Vegetative Integrity of plant community 6 b H M L SF22 Is the plant community unique or rare regionally or provincially? FF23 Does the WL contain a diversity of plant communities FF24 Rate the overall integrity/quality of plant species? Specify. FF25 Are there any observed rare or endangered plant species? Specify. FF26 Interspersion of open water and vegetation (open water types only) 1 Interspersion of open water and vegetation (open water types only) 2 Interspersion of open water and vegetation (open water types only) 3 Wetland condition related to detritus 4 Interspersion of open water wetlands in vicinity 4 Interspersion of open wetland and other habitat 5 Rare there wetlands in vicinity 6 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) FF26 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) FF27 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) FF28 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) FF29 Notew	6 Shoreline/streambank veg condition upslope of water level	Low	Med	High	Artificial						
1 Vegetation diversity	SF21 WL ability to stabilize shoreline	Н	M	L	N/A						
1b Dominant plant species and % cover in the WL 3 Dominant Non-native or Invasive species and % cover 4 Vegetation Disturbance 5 Disturbance Types 6 Disturbance Types 7 Vegetative Integrity of plant community 8 Pes	SECTION NINE: PLANT COMMUNITY										
3 Dominant Non-native or Invasive species and % cover 4 Vegetation Disturbance 5 Disturbance Types 7 Vegetative Integrity of plant community FEZZ Is the plant community unique or rare regionally or provincially? FFZZ Is the plant community unique or rare regionally or provincially? FFZZ Is the plant community unique or rare regionally or provincially? FFZZ Is the plant community unique or rare regionally or provincially? FFZZ Rote the overall integrity/quality of plant community? FFZZ Rote the overall integrity/quality of plant community? FFZZ Rote the overall integrity/quality of plant community? FFZZ Are there any observed rare or endangered plant species? Specify. FFZZ FEZ FEZ FISH AND WILDLIFE HABITAT AND INTEGRITY 1 Interspersion of open water and vegetation (open water types only) 1 Interspersion of open water and vegetation verus open water 2 Interspersion that best fits entire wetland 3 Wetland condition related to detritus H M L N/A 4 Interspersion of other wetlands in vicinity 4 Interspersion of other wetlands in vicinity 6 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) FEX PECTION TEN: FISH AND WILDLIFE CONTROLLED TO THE CONTROL	1 Vegetation diversity	High	Med	Low							
4 Vegetation Disturbance 5 Disturbance Types 7 Vegetative Integrity of plant community FF22 Is the plant community unique or rare regionally or provincially? FF23 Does the WL contain a diversity of plant communities FF24 Rate the overall integrity/quality of plant community? FF25 Are there any observed rare or endangered plant species? Specify. FF25 Are there any observed rare or endangered plant species? Specify. Interspersion of open water and vegetation (open water types only) I Interspersion that best fits entire wetland W L N/A Wetland condition related to detritus H M L N/A Interspersion that best fits entire wetland H M L N/A Wetland condition related to detritus H M L N/A Interspersion for other wetlands in vicinity H M L N/A Interspersion of other wetlands in vicinity H M L N/A Interspersion of other wetlands in vicinity H M L N/A Interspersion of other wetlands in vicinity H M L N/A Interspersion of other wetlands in vicinity H M L N/A Interspersion of other wetlands in vicinity H M L N/A Interspersion of other wetlands in vicinity H M L N/A Interspersion of other wetlands in vicinity H M L N/A Interspersion of other wetlands in vicinity H M L N/A Interspersion of other wetlands in vicinity H M L N/A Interspersion of other wetlands in vicinity H M L N/A Interspersion of other wetlands in vicinity H M L N/A Interspersion of other wetlands in vicinity H M L N/A Interspersion of other wetlands in vicinity H M L N/A Interspersion of other wetlands in vicinity H M L N/A Interspersion of other wetlands in vicinity H M L N/A Interspersion of other wetlands in vicinity H M L N/A Interspersion of other wetlands in vicinity H M L N/A Interspersion of other wetlands in vicinity H M M L N/A Interspersion of other wetlands in vicinity H M M L N/A Interspersion of other wetlands in vicinity H M M L N/A Interspersion of other wetland and other habitat Interspersion of other wetlands in vicinity H M L N/A Interspersion of other wetlands in vicinity H M M	1b Dominant plant species and % cover in the WL	list: Nemopa	anthes mucronat	a (10%)/Osmuno	da cinnamom	ea (20%)/ M	lyrica gale	(20%)	•		
5 Disturbance Types H_ATV_G_,MInD/D_, ImOAH_, IISd_,E,other_x_, Skidder trail 7 Vegetative Integrity of plant community E	3 Dominant Non-native or Invasive species and % cover	Yes	No	specify: %							
7 Vegetative Integrity of plant community FE H M L SF22 Is the plant community unique or rare regionally or provincially? FS23 Does the WL contain a diversity of plant communities H M L SF24 Rate the overall integrity/quality of plant community? H M L SF25 Are there any observed rare or endangered plant species? Specify. FECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY 1 Interspersion of open water and vegetation (open water types only) 1 Interspersion that best fits entire wetland 3 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity 4 Interspersion of other wetlands in vicinity 4 Interspersion of other wetlands in vicinity 5 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? Fish species observed or evidence seen (list) Yes No list: FS2 BH M M L M L M L M H M L M H M M L M H M M M M M M M	4 Vegetation Disturbance	Н	M		specify type	(s) below					
SF22 Is the plant community unique or rare regionally or provincially? Yes No Specify:	5 Disturbance Types	H,ATV	_,G,M,In	, D/D, lm	, OAH,	li, Sd	_,E,,oth	er_x, Skidder	trail		
SF22 Is the plant community unique or rare regionally or provincially? Yes No Specify:	7 Vegetative Integrity of plant community	E	Н	М	L						
SF24 Rate the overall integrity/quality of plant community? H M L			no	specify:							
SF25 Are there any observed rare or endangered plant species? Specify. End Thr SpC Red Yellow S1 S2 S3 (/A SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY 1 Interspersion of open water and vegetation (open water types only) H M L M 1b % cover in vegetation verus open water 95 % 2 Interspersion that best fits entire wetland H M L N/A 3 Wetland condition related to detritus H M L N/A 4 Interspersion of other wetlands in vicinity H M L 6 Barriers/restriction between wetland and other habitat L M H 7 Noteworthy wildlife or evidence (birds, mammals, amphibians, etc) Yes No Iist: Passerines 8 Connected to permanent water (accessible to fish)? Exceptional High Med Cow N/A 9 Fish species observed or evidence seen (list) Yes No Iist:	SF23 Does the WL contain a diversity of plant communities	Н	M (
SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY 1 Interspersion of open water and vegetation (open water types only) 1 Interspersion of open water and vegetation (open water types only) 1 Interspersion of open water and vegetation (open water types only) 2 Interspersion that best fits entire wetland 3 Wetland condition related to detritus H M L N/A 4 Interspersion of other wetlands in vicinity H M L 6 Barriers/restriction between wetland and other habitat L M H 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? Exceptional High Med Low N/A 9 Fish species observed or evidence seen (list) Yes No list:	SF24 Rate the overall integrity/quality of plant community?	Н	М	L							
1 Interspersion of open water and vegetation (open water types only) 1	SF25 Are there any observed rare or endangered plant species? Specify.	End	Thr	SpC	Red	Yellow	<i>S</i> 1	S2	<i>S3</i>	N/A	
1b % cover in vegetation verus open water 2 Interspersion that best fits entire wetland 3 Wetland condition related to detritus H M L N/A 4 Interspersion of other wetlands in vicinity Barriers/restriction between wetland and other habitat Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) Exceptional High Med Ow N/A Fish species observed or evidence seen (list) Yes No list:	SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY										
2 Interspersion that best fits entire wetland 3 Wetland condition related to detritus H M L N/A 4 Interspersion of other wetlands in vicinity H M L 6 Barriers/restriction between wetland and other habitat L M H 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) Yes No list: Passerines 8 Connected to permanent water (accessible to fish)? Exceptional High Med (ow N/A) 9 Fish species observed or evidence seen (list) Yes No list:	1 Interspersion of open water and vegetation (open water types only)	Н	М (L							•
3 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity Barriers/restriction between wetland and other habitat Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) Connected to permanent water (accessible to fish)? Exceptional High M L N/A H W L N/A H M H M H M H M H M H M H M H M H M H Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) Fish species observed or evidence seen (list) Yes NO Iist:	1b % cover in vegetation verus open water	95%									
4 Interspersion of other wetlands in vicinity 6 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? Exceptional High Med What Wh	2 Interspersion that best fits entire wetland	Н	М (L							
6 Barriers/restriction between wetland and other habitat L M H 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? Exceptional High Med Low N/A 9 Fish species observed or evidence seen (list) Yes No list:	3 Wetland condition related to detritus	Н	М	L	N/A						
7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? Exceptional High Med Low N/A 9 Fish species observed or evidence seen (list) Yes No list:	4 Interspersion of other wetlands in vicinity	Н	М	L							
8 Connected to permanent water (accessible to fish)? Exceptional High Med Low N/A 9 Fish species observed or evidence seen (list) Yes No list:	6 Barriers/restriction between wetland and other habitat	L	М	Н							
9 Fish species observed or evidence seen (list) Yes No list:	7 Noteworthy wildlife or evidence (birds, mammals, amphibians, etc)	Yes	No	list: Passerines	s						
	8 Connected to permanent water (accessible to fish)?	Exceptional	High	Med	Low	N/A					
10 Wetland newt of continuous unland an wetland.	9 Fish species observed or evidence seen (list)	Yes	No	list:							
	10 Wetland part of contiguous upland or wetland:	>50ha	25-50ha	10-25ha	<10h						
11 WL provides habitat for: Amphibians Reptiles Waterfowl Waterbirds Mammals Fish R/E species	11 WL provides habitat for:	Amphibians	Reptiles	Waterfowl	Waterbirds	Mammals	> Fish	R/E species			
SF26 Does wetland support fish/fish habitat? Yes No specify:	SF26 Does wetland support fish/fish habitat?	Yes	No	specify:							
SF27 Rare or endangered fish/wildlife species found in the wetland? End Thr-SARA SpC Red Yellow S1 S2 S3 N/A	SF27 Rare or endangered fish/wildlife species found in the wetland?	End	Thr-SARA	SpC	Red	Yellow	51	S2	<i>S3</i>	N/A	
SF28 Overall fish and wildlife habitat quality H M L	SF28 Overall fish and wildlife habitat quality	H	M	L							
SECTION ELEVEN: COMMUNITY USE/VALUE	SECTION ELEVEN: COMMUNITY USE/VALUE										
1 Describe community use VVCPCOPOPA,AVGBEHI, WV, BOHU, PG, BP,F, E, R, Other:	1 Describe community use	VV ,CP ,C	CO ,PO ,PA	AV .GB .F	.HI .WV	. BO .HU	. PG . BP	.F .E .R	. Other:		
SF29 Rate the wetland's community use/value H M L	SF29 Rate the wetland's community use/value		<u> </u>	<u>,,,, , , ,, ,</u> ,,	_ <u></u>	,, 	<u></u>		_,		

APPENDIX D: WL16 Nova Scotia Wetland Evaluat	tion Technique F	ield Data Sheet							
Project Name: Black Point Quarry	Evaluator: So	cott Burley		GPS Coordi	nates:	645920 E	x 5022505 N		
PID:35212497, 35212505, 35212521, 35212513, 35044056, 35214014, 35214022, 3521	14022 and 35213	990	Site Address: I	Black Point, (Guysborough (County, NS			
Sources and Dates of Mapping/Images: NS Wetlands Inventory (2012); NS Forest Inven	tory (Current For	rest Data - 2004)	; Google Earth (2003)					
Evaluation Date: 10-Sep	-14 Site Visit Dat	te:	19-Aug-14	1					
Weather Conditions (past 48 hours): Periods of rain; Sun and Clouds									
Seasonal Weather Conditions: Typical									
SECTION ONE: WATERSHED CHARACTERISTICS									
1 Watershed Name (tertiary): 1EQ-SD	Size: 518	km²							
2 % Watershed Land Cover	For: 43	Nat: 36	Past/Hay: <1	Crop: <1	Urb/Com: 2	Road: <1	Other Dev: <	1 (Gravel Pi	t, Landfill, Industrial
3 % Watershed WL Cover and by Class	Total: 10%	SM: <1	BO: 6	FE: 1	FM: 2	FS: 1	SS: 1	CP: <1	VP: Present
SF1 Watershed condition	Н	М (•	•	•
SF2 Proportion of WL area in watershed & opportunity for floodwater detention	Н (M	L						
SECTION TWO: WETLAND CHARACTERISTICS									
Wetland Type: Bog	WL size: 0.4	45 hectares		Landform:	Basin		Landscape Po	osition: Terr	ene
Water flow path: Isolated	Wetland Ori	gin: Natural							
1 Water Regime	PF	SF	TF	SS	PS	RfT	IfT	AF	
2 # WL's within 30m project area	Total# 0	SM:	BO:	FE:	FM:	FS:	SS:	CP:	VP:
3 Is WL part of complex	Yes	No						•	
4 % each wetland type in complex	SM:	BO: 100	FE:	FM:	FS:	SS:	CP:	VP:	
5 Is WL bordering or associated with a lake or pond?	bordering		within 100m		N/A		specify		
6 Standing water?	Yes	Avg Dep: 0-10	cm	% Inundate	ed: 5%	No			
7 Inlet or Outlet (circle all that apply)?	Inlet	Outlet							
8 Adjacent Upland Land Use within 100m (%)	For: 90	Nat:	PasHay:	Crop:	UrbCm:	Road:	Other Dev:	10% Pow	er line corridor
9 Are there stressors in WL or WL buffer area? Circle primary stressor(s).	DD, CW	_, WcS, O/C	,EB,DP,F,	.M, ES,N	IE,DwP,				
	M,GC,A	.TV,DG,EA_	_, R,Rr,U/C	D,F,FA_	_, other (speci	ify):			
10 Hydrology Altered (circle all that apply)?	Ditching	Dams	Tiles	Culvert	Well	Diversion	Other Specify	/ :	
SF3 Rate the general wetland condition/integrity	(H)	M	L						
SECTION THREE: ADJACENT LAND CONDITION AND INTEGRITY									
1 Average width of adjacent naturalized buffer	>1000n	n							
2 Widths for water quality	H >1	M 8-15	L <8						
3 Widths for wildlife habitat	H >1 0 0	M 15-100	L <15						
4 Adjacent area vegetation condition (list % in each category)	H 100%	М	L						
5 Adjacent area diversity and structure (list % in each category)	H 100%	М	L						
6 Adjacent Upland Slope (list % in each category)	Steep 70%	Mod 20%	Gentle 10%						
7 Adjacent land supports water quality	Yes	No	Specify:						
8 Adjacent land supports wildlife habitat	Yes	No	Specify:						
SF4 Rate the overall condition and integrity land adjacent to wetland	\mathcal{U}	М	L	is buffer re	quired to mai	ntain red fl	ag functions of	wetland?	If yes if no
SECTION FOUR: DOCUMENTED IMPORTANT FEATURES									
SF5 Is the WL a WSS?	Yes	No)							

SF6 Does the WL support commercial/recreational fish/shellfish?	Yes	No						
SF7 Species of concern (Fed/Prov)? Specify.	End	Thr - SARA	SpC	Red	Yellow S1	S2	53	(N/A)
SF8 Wetland has conservation/compensation agreements/activity?	Yes	(No	specify:					
SF9 Wetland is calcerous fen, black ash or cedar swamp?	Yes	No						
SF10 Within Drinking Water Protected Area (designated watershed/wellfield)	Yes	No	specify:					
SF11 WL within a floodplain and upstream of or within of a populated area?	Yes	No						
SF12 Fed/Prov/Municipal area of interest?	Yes	No	specify:					
SECTION FIVE: HYDROLOGIC CONDITION AND INTEGRITY								
1 Is WL source of stream or headwater(wc order 1 or 2)	Yes	No	Specify:					
2 Is WL geographically isolated?	Yes	No	Specify:					
3 WL ability to maintain characteristic hydrologic regime	High		Med		Low			
4 Water Storage Depth (list % in each class)	>30cm	15-30cm	up to 15cm	<u> </u>	No ponding			
5 Signs of surface water retention observed?	SW_5_cm, \	WSL, WCD	, WM_cm, SM	cm, SD,	AD, ID, PMT_x_, AI	, BT, AR_	_, Other:	
6 Describe observable/historical anthropogenic sediment delivery	Low		Med		High			
7 Disturbance of WL soils	Low		Med		High			
8 Predominant soils adjacent to WL	Sand		Silt/loam		Clay bedrock			
9 Capacity of WL to alter/retard flows	(ligh		Med		Low			
10 Roughness coefficient for surface water flow path	High		Med		Low			
11 Strormwater/Wastewater/Agricultural runoff detention	High		Med		Low			
12 Water Source	Natural		Mostly natu	ral	Partly altered	Controlle	ed	
13 Hydrology of tidal wetlands	Unrestricte	d 🔵	Reduced		Restricted	N/A		
14 Coastal storm surge	Yes	No						
SF13 WL hydrologic condition	Natural	Modified		Significa	ntly Modified			
SF14 WL important for maintaining stream flow?	Yes	(No)						
SF15 WL ability to detain surface water	High	Med	Low					
SECTION SIX: WATER QUALITY								
1 Strormwater/Wastewater/Agricultural runoff as water source?	High		Med		Low			
2 Nutrients/sediments from surrounding land	High		Med		Low			
3 Significant flood/stormwater attenuation	Yes	No						
4 Vegetation capacity to settle suspended sediments	High		Med		Low			
5 WL type /landscape position holds/filters runoff?	Yes (No						
SF16 Wetland improves water quality?	Yes	No						
SF17 Evidence of excess nutrient loading/contamination?	(Low)	Med	High					
SF18 WL contributes to water quality in downstream resources	High	Med	Low					
SECTION SEVEN: GROUNDWATER INTERACTIONS								
1 Describe soils in wetland	Recharge		Discharge					
2 Land use / run off in subwatershed upstream	Recharge		Discharge)				
3 Conditions of upland soils within 200m of wetland	Recharge		Discharge					
4 Hydroperiod of wetland	Recharge		Discharge					
5 Describe inlet/outlet configuration	Recharge	<u> </u>	Discharge					
6 Characterize topographic relief surrounding wetland	Recharge		Discharge					

SF19 WL serves as a recharge site	Yes	No	Possible recha	rge wetland						
SF20 WL serves as a discharge site	Yes	No								
SECTION EIGHT: SHORELINE STABILIZATION AND INTEGRITY										
1 Wetland fringing ocean/estuary/lake/pond/river/stream?	Yes	No	streamwidth >	4m	streamwidth	n<4m	WB Exposed	WB Shel	tered	
2 % cover of rooted vegetation in shallow water zone	H >50%	M 10-50	L <10%							
3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour	H >10m	M 3-10	L <3m							
4 Prevalence of strong-stemmed emerg. veg (shoreline marshes and fens only)	High	Med	Low							
5 Describe shoreline erosion potential	High	Med	Low							
6 Shoreline/streambank veg condition upslope of water level	Low	Med	High	Artificial						
SF21 WL ability to stabilize shoreline	H	М	L	N/A						
SECTION NINE: PLANT COMMUNITY										
1 Vegetation diversity	High	Med	Low							
1b Dominant plant species and % cover in the WL	list: Picea m	ariana (40%)/Ma	ainanthemum tri	folium (20%)						
3 Dominant Non-native or Invasive species and % cover	Yes	No	specify: %							
4 Vegetation Disturbance	Н	M		specify type	e(s) below					
5 Disturbance Types	H,ATV	,G,,M,Ir	n, D/D, Im_	, OAH	, Ii, Sd,	E,,othe	r,			
7 Vegetative Integrity of plant community		Н	М	L						
SF22 Is the plant community unique or rare regionally or provincially?	Yes	no	specify:							
SF23 Does the WL contain a diversity of plant communities	Н	M	L							
SF24 Rate the overall integrity/quality of plant community?	(H)	M	L							
SF25 Are there any observed rare or endangered plant species? Specify.	End	Thr	SpC	Red	Yellow	<i>5</i> 1	<i>S2</i>	<i>S3</i>	N/A	
SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY										
1 Interspersion of open water and vegetation (open water types only)	Н	M								
1b % cover in vegetation verus open water	95%									
2 Interspersion that best fits entire wetland	Н	М (N/A						
3 Wetland condition related to detritus	Н	M	L	N/A						
4 Interspersion of other wetlands in vicinity	Н	M	L							
6 Barriers/restriction between wetland and other habitat		M	Н							
7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc)	Yes	No	list: Passerines			e tracks				
8 Connected to permanent water (accessible to fish)?	Exceptional	_	Med	Low	N/A)					
9 Fish species observed or evidence seen (list)	Yes	No	list:							
10 Wetland part of contiguous upland or wetland:	>50ha	25-50ha	10-25ha	<10h						
11 WL provides habitat for:	Amphibians		Waterfowl	Waterbirds	Mammals	Fish	R/E species			
SF26 Does wetland support fish/fish habitat?	Yes	No	specify:							
SF27 Rare or endangered fish/wildlife species found in the wetland?	End	Thr-SARA	SpC	Red	Yellow	<i>S</i> 1	S2	S3	N/A	
SF28 Overall fish and wildlife habitat quality	H	M	L							
SECTION ELEVEN: COMMUNITY USE/VALUE										
1 Describe community use	VV,CP,(_,HI, WV_	_, BO,HU,	, PG, BP_	_,F, E, R	, Other:		
SF29 Rate the wetland's community use/value	Н	М (L			-		·		

APPE	NDIX D: WL17 Nova Scotia Wetland Eva	aluation Technique Fi	eld Data Shee	t						
Proje	ct Name: Black Point Quarry	Evaluator: Sco	ott Burley		GPS Coordin	nates:	644193 E	x 5021827 N		
PID:3	5212497, 35212505, 35212521, 35212513, 35044056, 35214014, 35214022, 3	35214022 and 352139	990	Site Address: E	Black Point, G	uysborough (County, NS			
Sourc	ces and Dates of Mapping/Images: NS Wetlands Inventory (2012); NS Forest In	ventory (Current Fore	est Data - 2004	l); Google Earth (2	2003)					
Evalu	ation Date: 10-	Sep-14 Site Visit Date	e:	18-Aug-14						
Weat	her Conditions (past 48 hours): sun and cloud; Periods of rain with clouds									
Seaso	onal Weather Conditions: Typical									
SECTI	ON ONE: WATERSHED CHARACTERISTICS									
1	Watershed Name (tertiary): 1EQ-SD	Size: 518	km²							
2	% Watershed Land Cover	For: 43	Nat: 36	Past/Hay: <1	Crop: <1	Urb/Com: 2	Road: <1	Other Dev: <1	. (Gravel Pi	t, Landfill, Industri
3	% Watershed WL Cover and by Class	Total: 10%	SM: <1	BO: 6	FE: 1	FM: 2	FS: 1	SS: 1	CP: <1	VP: Present
SF1	Watershed condition	Н	М							
SF2	Proportion of WL area in watershed & opportunity for floodwater detention	n H	M	L						
SECTI	ON TWO: WETLAND CHARACTERISTICS									
Wetla	and Type: Bog/Swamp	WL size: 0.	74 hectares	5	Landform: B	asin		Landscape Po	sition: Terr	ene Outflow
Wate	r flow path: Outflow	Wetland Orig	in: Natural							
1	Water Regime	PF	SF	TF		PS	RfT	IfT	AF	
2	# WL's within 30m project area	Total# 0	SM:	BO:	FE:	FM:	FS:	SS:	CP:	VP:
3	Is WL part of complex	Yes	No							
4	% each wetland type in complex	SM:	BO: 64	FE:	FM:	FS: 36	SS:	CP:	VP:	
5	Is WL bordering or associated with a lake or pond?	bordering		within 100m		N/A		specify:		
6	Standing water?	Yes	Avg Dep:		% Inundated	d:	(No			
7	Inlet or Outlet (circle all that apply)?	Inlet	Outle							
8	Adjacent Upland Land Use within 100m (%)	For: 80	Nat: 20	PasHay:	Crop:	UrbCm:	Road:	Other Dev:		
9	Are there stressors in WL or WL buffer area? Circle primary stressor(s).	DD, CW,	WcS, O/C_	_,EB,DP,F,	M, ES,NE	,DwP,				
		M,GC,A1	TV,DG,EA_	, R,Rr,U/CI	D,F_x_,FA_	_, other (spe	cify):			
	Hydrology Altered (circle all that apply)?	Ditching	Dams	Tiles	Culvert	Well	Diversion	Other Specify	:	
SF3	Rate the general wetland condition/integrity	(H)	M	L						
SECTI	ON THREE: ADJACENT LAND CONDITION AND INTEGRITY									
1	Average width of adjacent naturalized buffer	>1000m								
2	Widths for water quality		M 8-15	L <8						
3	Widths for wildlife habitat	H >1 0 0	M 15-100	L <15						
	Adjacent area vegetation condition (list % in each category)	H 100%	M	L						
	Adjacent area diversity and structure (list % in each category)	H 100%	M	L						
6	Adjacent Upland Slope (list % in each category)	Steep 60%	Mod 20%	Gentle 20%						
7	Adjacent land supports water quality		No	Specify:						
	Adjacent land supports wildlife habitat		No	Specify:						
	Rate the overall condition and integrity land adjacent to wetland	Θ	M	L	is buffer req	uired to mai	ntain red fl	ag functions of	wetland?	If yes if no
SECTI	ON FOUR: DOCUMENTED IMPORTANT FEATURES									
SF5	Is the WL a WSS?	Yes	No)							

SF6 Does the WL support commercial/recreational fish/shellfish?	Yes	(No)						
SF7 Species of concern (Fed/Prov)? Specify. Nephroma bellum; Usnea flammea	End	Thr	SpC I	Red	Yellow S1	(52)	S3	N/A
SF8 Wetland has conservation/compensation agreements/activity?	Yes	No	specify:					
SF9 Wetland is calcerous fen, black ash or cedar swamp?	Yes	No						
SF10 Within Drinking Water Protected Area (designated watershed/wellfield)	Yes	No	specify:					
SF11 WL within a floodplain and upstream of or within of a populated area?	Yes	No						
SF12 Fed/Prov/Municipal area of interest?	Yes	No	specify:					
SECTION FIVE: HYDROLOGIC CONDITION AND INTEGRITY								
1 Is WL source of stream or headwater(wc order 1 or 2)	Yes	No	Specify:					
2 Is WL geographically isolated?	Yes	No	Specify:					
3 WL ability to maintain characteristic hydrologic regime	High		Med		Low			
4 Water Storage Depth (list % in each class)	>30cm	15-30cm	up to 15cm		No ponding			
5 Signs of surface water retention observed?	SWcm, W	VSL_x_, WCD_	_, WMcm, SMcn	n, SD, <i>F</i>		_, BT, AR,	Other:	
6 Describe observable/historical anthropogenic sediment delivery	Low		Med		High			
7 Disturbance of WL soils	Low		Med		High			
8 Predominant soils adjacent to WL	Sand		Silt/loam		Clay bedrock			
9 Capacity of WL to alter/retard flows	High		Med		Low			
10 Roughness coefficient for surface water flow path	High		Med		Low			
11 Strormwater/Wastewater/Agricultural runoff detention	High		Med		Low			
12 Water Source	Natural		Mostly natural		Partly altered	Controlle	d	
13 Hydrology of tidal wetlands	Unrestricte	d	Reduced		Restricted	N/A)		
14 Coastal storm surge	Yes	No						
SF13 WL hydrologic condition	Natural	Modified	9	Significan	tly Modified			
SF14 WL important for maintaining stream flow?	Yes	No						
SF15 WL ability to detain surface water	High	Med	Low					
SECTION SIX: WATER QUALITY								
1 Strormwater/Wastewater/Agricultural runoff as water source?	High		Med		Low			
2 Nutrients/sediments from surrounding land	High		Med		Low			
3 Significant flood/stormwater attenuation	Yes	No						
4 Vegetation capacity to settle suspended sediments	High		Med		Low			
5 WL type /landscape position holds/filters runoff?	Yes	No						
SF16 Wetland improves water quality?	Yes	No						
SF17 Evidence of excess nutrient loading/contamination?	(Low)	Med	High					
SF18 WL contributes to water quality in downstream resources	High	Med	Low					
SECTION SEVEN: GROUNDWATER INTERACTIONS								
1 Describe soils in wetland	Recharge		Discharge					
2 Land use / run off in subwatershed upstream	Recharge		Discharge					
3 Conditions of upland soils within 200m of wetland	Recharge		Discharge					
4 Hydroperiod of wetland	Recharge)	Discharge					
5 Describe inlet/outlet configuration	Recharge		oischarge					
6 Characterize topographic relief surrounding wetland	Recharge		Discharge					

SF19 WL serves as a recharge site	Yes	No)								
SF20 WL serves as a discharge site	Yes	No								
SECTION EIGHT: SHORELINE STABILIZATION AND INTEGRITY										
1 Wetland fringing ocean/estuary/lake/pond/river/stream?	Yes (No	streamwidth >4	4m	streamwidt	:h<4m	WB Exposed	WB Shelte	ered	
2 % cover of rooted vegetation in shallow water zone	H >50%	M 10-50	L <10%							
3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour	H >10m	M 3-10	L <3m							
4 Prevalence of strong-stemmed emerg. veg (shoreline marshes and fens only)	High	Med	Low							
5 Describe shoreline erosion potential	High	Med	Low							
6 Shoreline/streambank veg condition upslope of water level	Low	Med	High	Artificial						
SF21 WL ability to stabilize shoreline	Н	М	L	N/A						
SECTION NINE: PLANT COMMUNITY										
1 Vegetation diversity	High	Med	Low							
1b Dominant plant species and % cover in the WL	list: Mainanti	hemum trifolium	(30%)/Picea mo	ariana (25%)	/ Eriophorun	n virginicum	(15%)	•	•	
3 Dominant Non-native or Invasive species and % cover	Yes	No	specify: %							
4 Vegetation Disturbance	Н	M	L	Specify type	(s) below:					
5 Disturbance Types	H,ATV	,G,M,ln	, D/D, Im_	, OAH,	Ii, Sd	,E,,other	,			
7 Vegetative Integrity of plant community	E	Н	M	L						
SF22 Is the plant community unique or rare regionally or provincially?	Yes	no	specify:							
SF23 Does the WL contain a diversity of plant communities	Н	M	L							
SF24 Rate the overall integrity/quality of plant community?	н	M	L							
SF25 Are there any observed rare or endangered plant species? Specify.	End	Thr	SpC	Red	Yellow	<i>S</i> 1	52	<i>S3</i>	N/A	
SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY										
1 Interspersion of open water and vegetation (open water types only)	Н	M								
1b % cover in vegetation verus open water	85%									
2 Interspersion that best fits entire wetland	Н	М (N/A						
3 Wetland condition related to detritus	Н	М	L	N/A						
4 Interspersion of other wetlands in vicinity	H	M	L							
6 Barriers/restriction between wetland and other habitat		M	Н							
7 Noteworthy wildlife or evidence (birds, mammals, amphibians, etc)	Yes	No	list: Coyote sca	t, Rabbit dro	ppings, Leap	ard Frog				
8 Connected to permanent water (accessible to fish)?	Exceptional	High	Med	Low	N/A					
9 Fish species observed or evidence seen (list)	Yes	No	list:							
10 Wetland part of contiguous upland or wetland:	>50ha	25-50ha	10-25ha	<10h						
11 WL provides habitat for:	Amphibians	Reptiles	Waterfowl	Waterbirds	Mammals	Fish	R/E species			
SF26 Does wetland support fish/fish habitat?	Yes	No	specify:							
SF27 Rare or endangered fish/wildlife species found in the wetland?	End		SpC	Red	Yellow	S1	52	S3	N/A	
SF28 Overall fish and wildlife habitat quality	Н	\mathbb{A}	L							
SECTION ELEVEN: COMMUNITY USE/VALUE										
1 Describe community use	VV,CP,C	O,PO,PA,	,AV,GB,E	,HI, WV	, BO,HU	, PG, BP_	_,F, E, R	Other:		
SF29 Rate the wetland's community use/value	Н	М	D							

SF ratings highlighted in red indicate critical wetland functions or watershed conditions that are highly degraded. Whenever a wetland is found to have red-highlighted SFs the proponent

APPE	NDIX D: WL18 Nova Scotia Wetland Evaluation	Technique Fi	ield Data Sheet							
Proje	ct Name: Black Point Quarry	Evaluator: So	ott Burley		GPS Coordin	nates:	644396 E	x 5022050 N		
PID:3	5212497, 35212505, 35212521, 35212513, 35044056, 35214014, 35214022, 3521402	2 and 35213	990	Site Address: E	Black Point, G	uysborough (County, NS			
Sourc	es and Dates of Mapping/Images: NS Wetlands Inventory (2012); NS Forest Inventory	(Current For	est Data - 2004);	Google Earth (2	2003)					
Evalu	ation Date: 10-Sep-14	Site Visit Dat	e:	18-Aug-14						
Weat	her Conditions (past 48 hours): Sun and Clouds; Periods of rain									
Seasc	nal Weather Conditions: Typical									
SECTI	ON ONE: WATERSHED CHARACTERISTICS									
1	Watershed Name (tertiary): 1EQ-SD	Size: 518	km²							
2	% Watershed Land Cover	For: 43	Nat: 36	Past/Hay: <1	Crop: <1	Urb/Com: 2	Road: <1	Other Dev: <1	(Gravel Pit	, Landfill, Industrial
3	% Watershed WL Cover and by Class	Total: 10%	SM: <1	BO: 6	FE: 1	FM: 2	FS: 1	SS: 1	CP: <1	VP: Present
SF1	Watershed condition	Н		L						
SF2	Proportion of WL area in watershed & opportunity for floodwater detention	н (M	L						
SECTI	ON TWO: WETLAND CHARACTERISTICS									
Wetla	and Type: Bog	WL size: 0.0	7 hectares		Landform: B	asin		Landscape Po	sition: Terre	ene
Wate	r flow path: Isolated	Wetland Orig								
1	Water Regime	PF	SF	TF	ss (PS	RfT	IfT	AF	
2	# WL's within 30m project area	Total# 0	SM:	BO:	FE:	FM:	FS:	SS:	CP:	VP:
3	Is WL part of complex	Yes (No							
4	% each wetland type in complex	SM:	BO: 100	FE:	FM:	FS:	SS:	CP:	VP:	
5	Is WL bordering or associated with a lake or pond?	bordering		within 100m		N/A		specify		
6	Standing water?	Yes	Avg Dep:		% Inundated	d:	No			
7	Inlet or Outlet (circle all that apply)?	Inlet	Outlet							
8	Adjacent Upland Land Use within 100m (%)	For: 80	Nat: 20	PasHay:	Crop:	UrbCm:	Road:	Other Dev:		
9	Are there stressors in WL or WL buffer area? Circle primary stressor(s).	DD, CW	, WcS, O/C,E	B,DP,F,	M, ES,NE	,DwP,				
		M,GC,A	TV,DG,EA	, R,Rr,U/CI	D,F,FA	, other (spec				
10	Hydrology Altered (circle all that apply)?	Ditching	Dams	Tiles	Culvert	Well	Diversion	Other Specify	:	
SF3	Rate the general wetland condition/integrity	H)	M	L						
SECTI	ON THREE: ADJACENT LAND CONDITION AND INTEGRITY									
1	Average width of adjacent naturalized buffer	>1000m	ו							
2	Widths for water quality	H >1	M 8-15	L <8						
3	Widths for wildlife habitat	H >1 0 0	M 15-100	L <15						
4	Adjacent area vegetation condition (list % in each category)	H 100%	M	L						
5	Adjacent area diversity and structure (list % in each category)	H 100%	M	L						
6	Adjacent Upland Slope (list % in each category)	Steep 10%	Mod 60%	Gentle 20%						
7	Adjacent land supports water quality	Yes	No	Specify:						
8	Adjacent land supports wildlife habitat	Yes	No	Specify:						
SF4	Rate the overall condition and integrity land adjacent to wetland	\mathcal{H}	M	L	is buffer req	uired to mai	ntain red fl	ag functions of	wetland? I	f yes if no
SECTI	ON FOUR: DOCUMENTED IMPORTANT FEATURES									
SF5	Is the WL a WSS?	Yes	(No							

SF6 Does the WL support commercial/recreational fish/shellfish?	Yes	(No	\neg					
SF7 Species of concern (Fed/Prov)? Specify. Cladonia stygia; Geocaulon lividum	End	Thr - SARA	SpC	Red	Yellow S1	(52)	(3)	N/A
SF8 Wetland has conservation/compensation agreements/activity?	Yes	No	specify:					
SF9 Wetland is calcerous fen, black ash or cedar swamp?	Yes	No						
SF10 Within Drinking Water Protected Area (designated watershed/wellfield)	Yes	No	specify:					
SF11 WL within a floodplain and upstream of or within of a populated area?	Yes	No						
SF12 Fed/Prov/Municipal area of interest?	Yes	No	specify:					
SECTION FIVE: HYDROLOGIC CONDITION AND INTEGRITY								
1 Is WL source of stream or headwater(wc order 1 or 2)	Yes	No	Specify:					
2 Is WL geographically isolated?	Yes	No	Specify:					
3 WL ability to maintain characteristic hydrologic regime	High		Med		Low			
4 Water Storage Depth (list % in each class)	>30cm	15-30cm	up to 15cm		No ponding			
5 Signs of surface water retention observed?	SWcm, W	/SL, WCD,	WMcm, SM	_cm, SD, <i>A</i>	.D, ID, PMT_x_, Al_	_, BT, AR,	Other:	
6 Describe observable/historical anthropogenic sediment delivery	Low		Med		High			
7 Disturbance of WL soils	Low		Med		High			
8 Predominant soils adjacent to WL	Sand		Silt/loam		Clay bedrock			
9 Capacity of WL to alter/retard flows	d igh		Med		Low			
10 Roughness coefficient for surface water flow path	High		Med		Low			
11 Strormwater/Wastewater/Agricultural runoff detention	High		Med		Low			
12 Water Source	Natural		Mostly natu	ral	Partly altered	Controlle	ed	
13 Hydrology of tidal wetlands	Unrestricte	d _	Reduced		Restricted	N/A)		
14 Coastal storm surge	Yes	No						
SF13 WL hydrologic condition	Natural	Modified		Significa	ntly Modified			
SF14 WL important for maintaining stream flow?	Yes	No						
SF15 WL ability to detain surface water	High	(Med)	Low					
SECTION SIX: WATER QUALITY								
1 Strormwater/Wastewater/Agricultural runoff as water source?	High		Med		Low			
2 Nutrients/sediments from surrounding land	High		Med		Low			
3 Significant flood/stormwater attenuation	Yes	No						
4 Vegetation capacity to settle suspended sediments	High		Med		Low			
5 WL type /landscape position holds/filters runoff?	Yes (No						
SF16 Wetland improves water quality?	Yes	(No)						
SF17 Evidence of excess nutrient loading/contamination?	(Low)	Med	High					
SF18 WL contributes to water quality in downstream resources	High	Med	Low					
SECTION SEVEN: GROUNDWATER INTERACTIONS								
1 Describe soils in wetland	Recharge		Discharge					
2 Land use / run off in subwatershed upstream	Recharge		Discharge)				
3 Conditions of upland soils within 200m of wetland	Recharge		Discharge					
4 Hydroperiod of wetland	Recharge		Discharge					
5 Describe inlet/outlet configuration	Recharge		Discharge					
6 Characterize topographic relief surrounding wetland	Recharge		Discharge					

SECTION EIGHT SARREWEST SABULIZATION AND INTEGRITY Section Fig. Section Fig	SECTION EIGHT: SHORELINE STABILIZATION AND INTEGRITY 1 Wetland fringing ocean/estuary/lake/pond/river/stream? 2 % cover of rooted vegetation in shallow water zone H >50% M 10- 3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour H >10m M 3-11 4 Prevalence of strong-stemmed emerg. veg (shoreline marshes and fens only) Figh Med Describe shoreline erosion potential High Med Shoreline/streambank veg condition upslope of water level Low Med SF21 WL ability to stabilize shoreline SECTION NINE: PLANT COMMUNITY 1 Vegetation diversity Dominant plant species and % cover in the WL 3 Dominant Non-native or Invasive species and % cover 4 Vegetation Disturbance B Disturbance Types Yegetative Integrity of plant community FF22 Is the plant community unique or rare regionally or provincially? FF23 Does the WL contain a diversity of plant communities H M SF24 Rate the overall integrity/quality of plant community? H M SF25 Are there any observed rare or endangered plant species? Specify.C.stygia End Thr SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY 1 Interspersion of open water and vegetation (open water types only) H M Wetland condition related to detritus H M Wetland condition related to detritus H M Interspersion of other wetlands in vicinity	D-50 L <10% 10 L <3m Low Low High L Low (30%)/Kalmia angus specify: L ,,M,ln,D/D M	Artificia N/A ustifolia (15%)/ N : % specify t , Im, OAH L	l Jemopantes mucro	 onata (15%)		WB Shelte	red	
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2 % cover of noted vegetation in shallow water zone 3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour 4 Prevalence of strong stemmed emerg, veg (shoreline marshes and fens only) 5 Describe shoreline erosion potential 6 Shoreline/streambank weg condition upslope of water level 1	2 % cover of rooted vegetation in shallow water zone Avg veg WL width b/w shoreline/streambank & 2 m depth contour H >10m M 3-11 4 Prevalence of strong-stemmed emerg. veg (shoreline marshes and fens only) Bescribe shoreline erosion potential G Shoreline/streambank veg condition upslope of water level Bescribe shoreline erosion potential High Med Shoreline/streambank veg condition upslope of water level Low Med FF21 WL ability to stabilize shoreline SECTION NINE: PLANT COMMUNITY Vegetation diversity High Med Bist: Picea mariana (3) Dominant plant species and % cover in the WL list: Picea mariana (3) Dominant Non-native or Invasive species and % cover Vegetation Disturbance H M Sibilative picea mariana (3) Vegetative Integrity of plant community E H ATVG, Vegetative Integrity of plant community E H FF22 Is the plant community unique or rare regionally or provincially? Yes FF23 Does the WL contain a diversity of plant community? H M FF25 Are there any observed rare or endangered plant species? Specify. C. stygia End Thr SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY I Interspersion of open water and vegetation (open water types only) H M W Soover in vegetation verus open water Interspersion of other wetlands in vicinity H M H M HIGH MO 10	D-50 L <10% 10 L <3m Low Low High L Low (30%)/Kalmia angus specify: L ,,M,ln,D/D M	Artificia N/A ustifolia (15%)/ N : % specify t , Im, OAH L	l Jemopantes mucro	 onata (15%)		WB Shelte	red	
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1b Dominant plant species and % cover in the WL 3 Dominant Non-native or Invasive species and % cover Yes (No specify: % 4 Vegetation Disturbance H M L Specify type(s) below 5 Disturbance Types 7 Vegetative Integrity of plant community FF22 Is the plant community unique or rare regionally or provincially? FF23 Does the WL contain a diversity of plant communities H M L SPF24 Rote the overall integrity/quality of plant communities H M L SPF25 Rote the overall integrity/quality of plant communities H M L SPF26 Rote the overall integrity/quality of plant community 1 Interspersion of open water and vegetation (open water types only) 1 Interspersion of open water and vegetation (open water rote) 2 Interspersion that best fits entire wetland H M L SPF26 Rote with overall plant of the wetland H M L SPF26 Rote the very observed or or or develand and other habitat L M L SPF26 Rote with overall plant of the wetland and other habitat L M L SPF26 Rote with overall plant of the wetland and other habitat L M L SPF26 Rote with overall plant of the wetland and other habitat L M L SPF26 Rote with overall plant of the wetland and other habitat L M L SPF26 Rote with overall plant of the wetland and other habitat L M H M L SPF26 Rote with overall plant of the wetland and other habitat L M H M L SPF26 Rote with overall plant of the wetland and other habitat L M H M L SPF26 Rote with overall plant of the wetland and other habitat L M H M L SPF26 Rote with overall plant of the wetland and other habitat L M H M L SPF26 Rote with overall plant of the wetland sin vicinity H M L SPF26 Rote with overall plant of the wetland sin vicinity FF27 Rote with overall plant of the wetland sin vicinity FF28 Rote with overall plant	1b Dominant plant species and % cover in the WL 3 Dominant Non-native or Invasive species and % cover 4 Vegetation Disturbance 5 Disturbance Types 7 Vegetative Integrity of plant community 8 F22 Is the plant community unique or rare regionally or provincially? 8 F23 Does the WL contain a diversity of plant communities 8 F24 Rate the overall integrity/quality of plant community? 8 F25 Are there any observed rare or endangered plant species? Specify.C.stygia 8 F26 F27 Interspersion of open water and vegetation (open water types only) 1 Interspersion that best fits entire wetland 3 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity H M Interspersion of other wetlands in vicinity H M Interspersion of other wetlands in vicinity H M Interspersion of other wetlands in vicinity	(30%)/Kalmia angus specify: L _,,M,ln, D/D M	: % specify :, Im, OAH	type(s) below)			
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SF26 Does wetland support fish/fish habitat? Yes No specify:	10 Wetland part of contiguous upland or wetland: >50ha 25-50h	Oha 10-25ha							
	11 WL provides habitat for: Amphibians Reptile	les Waterfo	owl Waterb	irds Mammals	Fish	R/E species			
SF27 Rare or endangered fish/wildlife species found in the wetland? End Thr-SARA SpC Red Yellow S1 S2 S3 (V/A)	SF26 Does wetland support fish/fish habitat? Yes No	specify:	:						
	SF27 Rare or endangered fish/wildlife species found in the wetland? End Thr-SA	SARA SpC	Red	Yellow	51	S2	<i>S3</i>	N/A	
SF28 Overall fish and wildlife habitat quality H M L	SF28 Overall fish and wildlife habitat quality H M	L							
SECTION ELEVEN: COMMUNITY USE/VALUE	SECTION ELEVEN: COMMUNITY USE/VALUE								
1 Describe community use VV,CPCO,PO,PA,,AV,GB,E,HI, WV, BO,HU, PG, BP,F, E, R, Other:	1 Describe community use VV,CP,CO,PO	O,PA,,AV,GB	B,E,HI, W	/V, BO,HU,	PG, BP	,F, E, R,	Other:		
SF29 Rate the wetland's community use/value H M L	SF29 Rate the wetland's community use/value								

APPENDIX D: WL19 Nova Scotia Wetland Evaluat	ion Technique F	ield Data Sheet							
Project Name: Black Point Quarry	Evaluator: So	cott Burley		GPS Coordi	nates:	644440 E	x 5022148 N		
PID:35212497, 35212505, 35212521, 35212513, 35044056, 35214014, 35214022, 3521	.4022 and 35213	990	Site Address:	Black Point, (Guysborough (County, NS			
Sources and Dates of Mapping/Images: NS Wetlands Inventory (2012); NS Forest Inven-	tory (Current Fo	rest Data - 2004)	; Google Earth (2003)					
Evaluation Date: 10-Sep	-14 Site Visit Dat	te:	18-Aug-14	4					
Weather Conditions (past 48 hours): Sun and Clouds; Periods of rain									
Seasonal Weather Conditions: Typical									
SECTION ONE: WATERSHED CHARACTERISTICS									
1 Watershed Name (tertiary): 1EQ-SD	Size: 518	km²							
2 % Watershed Land Cover	For: 43	Nat: 36	Past/Hay: <1	Crop: <1	Urb/Com: 2	Road: <1	Other Dev: <	1 (Gravel Pi	t, Landfill, Industrial
3 % Watershed WL Cover and by Class	Total: 10%	SM: <1	BO: 6	FE: 1	FM: 2	FS: 1	SS: 1	CP: <1	VP: Present
SF1 Watershed condition	Н	M (L		•		•	•	•
SF2 Proportion of WL area in watershed & opportunity for floodwater detention	Н (M	L						
SECTION TWO: WETLAND CHARACTERISTICS									
Wetland Type: Bog	WL size: 0.0	04 hectares		Landform:	Basin		Landscape Po	osition: Terr	ene
Water flow path: Isolated	Wetland Ori	gin: Natural		•			•		
1 Water Regime	PF	SF	TF	SS	PS	RfT	IfT	AF	
2 # WL's within 30m project area	Total# 0	SM:	BO:	FE:	FM:	FS:	SS:	CP:	VP:
3 Is WL part of complex	Yes	No		•			•	•	
4 % each wetland type in complex	SM:	BO: 100	FE:	FM:	FS:	SS:	CP:	VP:	
5 Is WL bordering or associated with a lake or pond?	bordering		within 100m		N/A		specify		
6 Standing water?	Yes	Avg Dep:		% Inundate	ed:	No			
7 Inlet or Outlet (circle all that apply)?	Inlet	Outlet							
8 Adjacent Upland Land Use within 100m (%)	For: 60	Nat: 40	PasHay:	Crop:	UrbCm:	Road:	Other Dev:		
9 Are there stressors in WL or WL buffer area? Circle primary stressor(s).	DD, CW	_, WcS, O/C	,EB,DP,F,	,M, ES,N	IE,DwP,				
	M,GC,A	ATV,DG,EA_	_, R,Rr,U/C	D,F,FA_	_, other (spec	ify):			
10 Hydrology Altered (circle all that apply)?	Ditching	Dams	Tiles	Culvert	Well	Diversion	Other Specify	y:	
SF3 Rate the general wetland condition/integrity	(H)	M	L						
SECTION THREE: ADJACENT LAND CONDITION AND INTEGRITY									
1 Average width of adjacent naturalized buffer	>1000n	n							
2 Widths for water quality	H >1	M 8-15	L <8						
3 Widths for wildlife habitat	H >1 0 0	M 15-100	L <15						
4 Adjacent area vegetation condition (list % in each category)	H 100%	М	L						
5 Adjacent area diversity and structure (list % in each category)	H 100%	М	L						
6 Adjacent Upland Slope (list % in each category)	Steep 30%	Mod 40%	Gentle 10%						
7 Adjacent land supports water quality	Yes	No	Specify:						
8 Adjacent land supports wildlife habitat	Yes	No	Specify:						
SF4 Rate the overall condition and integrity land adjacent to wetland	\mathcal{U}	M	L	is buffer re	quired to mai	ntain red fl	ag functions of	f wetland?	If yes if no
SECTION FOUR: DOCUMENTED IMPORTANT FEATURES									
SF5 Is the WL a WSS?	Yes	No							

SF6	Does the WL support commercial/recreational fish/shellfish?	Yes	No	\neg					
SF7	Species of concern (Fed/Prov)? Specify. Cladonia stygia	End	Thr - SARA	SpC	Red	Yellow S1	52	53	N/A
SF8	Wetland has conservation/compensation agreements/activity?	Yes	(No	specify:					
SF9	Wetland is calcerous fen, black ash or cedar swamp?	Yes	No	<u> </u>					
SF10	Within Drinking Water Protected Area (designated watershed/wellfield)	Yes	No	specify:					
	WL within a floodplain and upstream of or within of a populated area?	Yes	No						
	Fed/Prov/Municipal area of interest?	Yes	No	specify:					
SECT	ION FIVE: HYDROLOGIC CONDITION AND INTEGRITY								
	1 Is WL source of stream or headwater(wc order 1 or 2)	Yes	No	Specify:					
	2 Is WL geographically isolated?	Yes	No	Specify:					
	3 WL ability to maintain characteristic hydrologic regime	High		Med		Low			
	Water Storage Depth (list % in each class)	>30cm	15-30cm	up to 15cm		No ponding			
	Signs of surface water retention observed?	SWcm,	WSL, WCD, \	WMcm, SM	_cm, SD, <i>i</i>	AD, ID, PMT_x_, AI_	_, BT, AR,	Other:	
	Describe observable/historical anthropogenic sediment delivery	Low		Med		High			
	7 Disturbance of WL soils	Low		Med		High			
	Predominant soils adjacent to WL	Sand		Silt/loam		Clay bedrock			
!	Capacity of WL to alter/retard flows	(ligh		Med		Low			
1	Roughness coefficient for surface water flow path	High		Med		Low			
1	1 Strormwater/Wastewater/Agricultural runoff detention	High		Med		Low			
1	2 Water Source	Natural		Mostly natu	ral	Partly altered	Controlle	d	
1	Hydrology of tidal wetlands	Unrestrict	ed	Reduced		Restricted	N/A		
1	4 Coastal storm surge	Yes	No						
F13	WL hydrologic condition	Natural	Modified		Significa	ntly Modified			
F14	WL important for maintaining stream flow?	Yes	No						
F15	WL ability to detain surface water	High	Med	Low					
ECT	ION SIX: WATER QUALITY								
1	Strormwater/Wastewater/Agricultural runoff as water source?	High		Med		Low			
2	Nutrients/sediments from surrounding land	High		Med		Low			
3	Significant flood/stormwater attenuation	Yes	No)						
4	Vegetation capacity to settle suspended sediments	High		Med		Low			
	WL type /landscape position holds/filters runoff?	Yes	(No)						
F16	Wetland improves water quality?	Yes	No						
SF17	Evidence of excess nutrient loading/contamination?	(low)	Med	High					
SF18	WL contributes to water quality in downstream resources	High	Med	Low					
SECT	ION SEVEN: GROUNDWATER INTERACTIONS								
	1 Describe soils in wetland	Recharge		Discharge	1				
	Land use / run off in subwatershed upstream	Recharge		Discharge)				
	Conditions of upland soils within 200m of wetland	Recharge		Discharge					
	Hydroperiod of wetland	Recharge		Discharge					
	Describe inlet/outlet configuration	Recharge		Discharge					
	Characterize topographic relief surrounding wetland	Recharge	-	Discharge					

SECTION EIGHT SABRUZATION AND INTEGRITY SecTION EIGHT SABRUZATION SECTION EIGHT SABRUZATION AND INTEGRITY SecTION EIGHT SABRUZATION SECTION EIGHT SABRUZATION EIGHT SABR	SECTION EIGHT: SHORELINE STABILIZATION AND INTEGRITY 1 Wetland fringing ocean/estuary/lake/pond/river/stream? 2 % cover of rooted vegetation in shallow water zone 3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour 4 Prevalence of strong-stemmed emerg. veg (shoreline marshes and fens only) 4 Prevalence of strong-stemmed emerg. veg (shoreline marshes and fens only) 5 Describe shoreline erosion potential 6 Shoreline/streambank veg condition upslope of water level 6 Shoreline/streambank veg condition upslope of water level 7 WL ability to stabilize shoreline 8 ECTION NINE: PLANT COMMUNITY 1 Vegetation diversity 1 Vegetation diversity 1 Dominant plant species and % cover in the WL 3 Dominant Non-native or Invasive species and % cover 4 Vegetation Disturbance 5 Disturbance Types 7 Vegetative Integrity of plant community 8 E	L <10% L <3m Low Low High L Low 30%)/Nemopante specify: % L L M specify: L L	Artificial N/A s mucronata specify type 1, OAH	15%) (s) below li, Sd,			WB Shelt	ered	
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	SF27 Rare or endangered fish/wildlife species found in the wetland? End Thr-SARA	specify:	Red	Yellow	<i>S</i> 1	S2	<i>S3</i>	N/A	
SF28 Overall fish and wildlife habitat quality H M L	SF28 Overall fish and wildlife habitat quality H M								
SECTION ELEVEN: COMMUNITY USE/VALUE	SECTION ELEVEN: COMMUNITY USE/VALUE								
1 Describe community use VV,CPCO,PO,PA,,AV,GB,E,HI, WV, BO,HU, PG, BP,F, E, R, Other:	1 Describe community use VV,CPCO,PO,P/								
SF29 Rate the wetland's community use/value H M L	SF29 Rate the wetland's community use/value	SpC L	,HI, WV	, BO,HU,	PG, BP_	_,F, E, R	Other:		

APPENDIX D: WL20 Nova Scotia Wetland Evaluat	ion Technique F	ield Data Sheet							
Project Name: Black Point Quarry	Evaluator: So	cott Burley		GPS Coordi	nates:	644447 E	x 5022225 N		
PID:35212497, 35212505, 35212521, 35212513, 35044056, 35214014, 35214022, 3521	4022 and 35213	990	Site Address:	Black Point, G	auysborough (County, NS			
Sources and Dates of Mapping/Images: NS Wetlands Inventory (2012); NS Forest Inventory	tory (Current Fo	rest Data - 2004)	; Google Earth (2003)					
Evaluation Date: 10-Sep	-14 Site Visit Da	te:	18-Aug-14	1					
Weather Conditions (past 48 hours): Sun and Clouds; Periods of rain									
Seasonal Weather Conditions: Typical									
SECTION ONE: WATERSHED CHARACTERISTICS									
1 Watershed Name (tertiary): 1EQ-SD	Size: 518	km²							
2 % Watershed Land Cover	For: 43	Nat: 36	Past/Hay: <1	Crop: <1	Urb/Com: 2	Road: <1	Other Dev: <	1 (Gravel Pi	t, Landfill, Industrial
3 % Watershed WL Cover and by Class	Total: 10%	SM: <1	BO: 6	FE: 1	FM: 2	FS: 1	SS: 1	CP: <1	VP: Present
SF1 Watershed condition	Н	M (L		•	•	•	•	•
SF2 Proportion of WL area in watershed & opportunity for floodwater detention	Н (M	L						
SECTION TWO: WETLAND CHARACTERISTICS				•					
Wetland Type: Bog	WL size: 0.3	15 hectares		Landform: I	Basin		Landscape Po	osition: Terr	ene
Water flow path: Isolated	Wetland Ori	gin: Natural			_		•		
1 Water Regime	PF	SF	TF	SS	PS	RfT	IfT	AF	
2 # WL's within 30m project area	Total# 0	SM:	BO:	FE:	FM:	FS:	SS:	CP:	VP:
3 Is WL part of complex	Yes	No					•	•	
4 % each wetland type in complex	SM:	BO: 100	FE:	FM:	FS:	SS:	CP:	VP:	
5 Is WL bordering or associated with a lake or pond?	bordering		within 100m		N/A)		specify	•	
6 Standing water?	Yes	Avg Dep:		% Inundate	d:	No			
7 Inlet or Outlet (circle all that apply)?	Inlet	Outlet							
8 Adjacent Upland Land Use within 100m (%)	For: 60	Nat: 40	PasHay:	Crop:	UrbCm:	Road:	Other Dev:		
9 Are there stressors in WL or WL buffer area? Circle primary stressor(s).	DD, CW	_, WcS, O/C	EB,DP,F,	M, ES,N	E,DwP,				
	M,GC,A	ATV,DG,EA_	_, R,Rr,U/C	D,F,FA_	_, other (spec	ify):			
10 Hydrology Altered (circle all that apply)?	Ditching	Dams	Tiles	Culvert	Well	Diversion	Other Specify	y:	
SF3 Rate the general wetland condition/integrity	(H)	M	L						
SECTION THREE: ADJACENT LAND CONDITION AND INTEGRITY									
1 Average width of adjacent naturalized buffer	>1000n	n							
2 Widths for water quality	H >1	M 8-15	L <8						
3 Widths for wildlife habitat	H >100	M 15-100	L <15						
4 Adjacent area vegetation condition (list % in each category)	H 100%	М	L						
5 Adjacent area diversity and structure (list % in each category)	H 100%	М	L						
6 Adjacent Upland Slope (list % in each category)	Steep 30%	Mod 40%	Gentle 10%						
7 Adjacent land supports water quality	Yes	No	Specify:						
8 Adjacent land supports wildlife habitat	Yes	No	Specify:						
SF4 Rate the overall condition and integrity land adjacent to wetland	\mathcal{U}	M	L	is buffer re	quired to mai	ntain red fl	ag functions of	f wetland?	If yes if no
SECTION FOUR: DOCUMENTED IMPORTANT FEATURES									
SF5 Is the WL a WSS?	Yes	No							

SF6 Does the WL support commercial/recreational fish/shellfish?	Yes	No						
SF7 Species of concern (Fed/Prov)? Specify. Cladonia stygia	End	Thr - SARA	SpC	Red	Yellow S1	52	<i>S3</i>	N/A
SF8 Wetland has conservation/compensation agreements/activity?	Yes	No	specify:					
SF9 Wetland is calcerous fen, black ash or cedar swamp?	Yes	No						
SF10 Within Drinking Water Protected Area (designated watershed/wellfield)	Yes	No	specify:					
SF11 WL within a floodplain and upstream of or within of a populated area?	Yes	(No						
SF12 Fed/Prov/Municipal area of interest?	Yes	No	specify:					
SECTION FIVE: HYDROLOGIC CONDITION AND INTEGRITY								
1 Is WL source of stream or headwater(wc order 1 or 2)	Yes	No	Specify:					
2 Is WL geographically isolated?	Yes	No	Specify:					
3 WL ability to maintain characteristic hydrologic regime	High		Med		Low			
4 Water Storage Depth (list % in each class)	>30cm	15-30cm	up to 15cm		No ponding			
5 Signs of surface water retention observed?	SWcm, W	VSL, WCD,	WMcm, SM	_cm, SD, <i>F</i>	AD, ID, PMT_x_, AI_	_, BT, AR, C	Other:	
6 Describe observable/historical anthropogenic sediment delivery	Low		Med		High			
7 Disturbance of WL soils	Low		Med		High			
8 Predominant soils adjacent to WL	Sand		Silt/loam		Clay bedrock			
9 Capacity of WL to alter/retard flows	(ligh		Med		Low			
10 Roughness coefficient for surface water flow path	High		Med		Low			
11 Strormwater/Wastewater/Agricultural runoff detention	High		Med		Low			
12 Water Source	Natural		Mostly natu	al	Partly altered	Controlled		
13 Hydrology of tidal wetlands	Unrestricte	d _	Reduced		Restricted	N/A)		
14 Coastal storm surge	Yes	No						
SF13 WL hydrologic condition	Natural	Modified		Significa	ntly Modified			
SF14 WL important for maintaining stream flow?	Yes	No						
SF15 WL ability to detain surface water	High	Med	Low					
SECTION SIX: WATER QUALITY								
1 Strormwater/Wastewater/Agricultural runoff as water source?	High		Med		Low			
2 Nutrients/sediments from surrounding land	High		Med		Low			
3 Significant flood/stormwater attenuation	Yes	No						
4 Vegetation capacity to settle suspended sediments	High		Med		Low			
5 WL type /landscape position holds/filters runoff?	Yes ((No)						
SF16 Wetland improves water quality?	Yes	No						
SF17 Evidence of excess nutrient loading/contamination?	(low)	Med	High					
SF18 WL contributes to water quality in downstream resources	High	Med	(Low)					
SECTION SEVEN: GROUNDWATER INTERACTIONS								
1 Describe soils in wetland	Recharge		Discharge					
2 Land use / run off in subwatershed upstream	Recharge		Discharge					
3 Conditions of upland soils within 200m of wetland	Recharge		Discharge					
4 Hydroperiod of wetland	Recharge		Discharge					
5 Describe inlet/outlet configuration	Recharge	<u> </u>	Discharge					
6 Characterize topographic relief surrounding wetland	Recharge		Discharge					

SECTION BIRST: PLANT COMMUNITY High Med Low Med High Artificial Section NINE: PLANT COMMUNITY Low Med High Med Low Med High Artificial Section NINE: PLANT COMMUNITY Low Med High Med Low Med High Artificial Section NINE: PLANT COMMUNITY Low Med High Med Low Med High Med Low Med High Artificial Section NINE: PLANT COMMUNITY Low Med High Med Low Med High Med Low Med High Artificial Section NINE: PLANT COMMUNITY Low Med High Med Low Med High Artificial Section NINE: PLANT COMMUNITY Low Med High Med Low Med High Med Low Med High Med Low Med High Artificial Section NINE: PLANT COMMUNITY Low Med High Med Low Med High Med Low Med High Artificial Section NINE: PLANT COMMUNITY Low Med High Med Low Med High Artificial Section NINE: PLANT COMMUNITY Low Med High Med Low Med High Med Low Med High Artificial Section NINE: PLANT COMMUNITY Low Med High Med Low Med High Artificial Section NINE: PLANT COMMUNITY Low Med High Med Low Med High Med Low Med High Med Low Med High Artificial Section NINE: PLANT COMMUNITY Low Med High Med Low Med High Artificial Section NINE: PLANT COMMUNITY Low Med High Med Low Med High Artificial Section NINE: PLANT COMMUNITY Low Med High Med Low Med High Artificial Section NINE: PLANT COMMUNITY Low Med High Med Low Med H	SECTION EIGHT: SHORELINE STABILIZATION AND INTEGRITY 1 Wetland fringing ocean/estuary/lake/pond/river/stream? 2 % cover of rooted vegetation in shallow water zone 3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour 4 Prevalence of strong-stemmed emerg, veg (shoreline marshes and fens only) 5 Describe shoreline erosion potential 6 Shoreline/streambank veg condition upslope of water level 5 Describe shoreline erosion potential 6 Shoreline/streambank veg condition upslope of water level 6 Shoreline/streambank veg condition upslope of water level 7 W ability to stabilize shoreline 8 D D D D D D D D D D D D D D D D D D D					
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SF24 Rate the overall integrity/quality of plant community? H M L	SF24 Rate the overall integrity/quality of plant community? H M L					
SF25 Are there any observed rare or endangered plant species? Specify.C.stygia End Thr SpC Red Yellow \$1 \$2 \$3 N/A SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY Interspersion of open water and vegetation (open water types only) H M L Image: N/A 1b % cover in vegetation verus open water	SF25 Are there any observed rare or endangered plant species? Specify.C.stygia SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY 1 Interspersion of open water and vegetation (open water types only) 1 Interspersion of open water and vegetation (open water types only) 2 Interspersion that best fits entire wetland 3 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity 6 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 8 Connected to permanent water (accessible to fish)? 9 Fish species observed or evidence seen (list) 10 Wetland part of contiguous upland or wetland: 11 WL provides habitat for: SF26 Does wetland support fish/fish habitat? Find Thr SpC Red Yell Find Thr SpC Red Y					
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	SF27 Rare or endangered fish/wildlife species found in the wetland? SF28 Overall fish and wildlife habitat quality SECTION ELEVEN: COMMUNITY USE/VALUE	Mammals Fish	Fish R/E s	species		
SF27 Rare or endangered fish/wildlife species found in the wetland? End Thr-SARA SpC Red Yellow S1 S2 S3 (V/A)	SF28 Overall fish and wildlife habitat quality SECTION ELEVEN: COMMUNITY USE/VALUE					
, , , , , , , , , , , , , , , , , , ,	SECTION ELEVEN: COMMUNITY USE/VALUE	Yellow 51	51 52	S3	(V/A)	
SF28 Overall fish and wildlife habitat quality H M L						
SECTION ELEVEN: COMMUNITY USE/VALUE						
1 Describe community use VV,CPCO,PO,PA,,AV,GB,E,HI, WV, BO,HU, PG, BP,F, E, R, Other:	1 Describe community use VV,CP,CO,PO,PA,,AV,GB,E,HI, WV, BO	, BO,HU, PG	, PG, BP,F,	E, R, Other	:	
	SF29 Rate the wetland's community use/value H M L					

SF ratings highlighted in red indicate critical wetland functions or watershed conditions that are highly degraded. Whenever a wetland is found to have red-highlighted SFs the proponent

APPE	NDIX D: WL21 Nova Scotia Wetland Evaluation	Technique Fi	ield Data Sheet							
Proje	ct Name: Black Point Quarry	Evaluator: So	ott Burley		GPS Coordin	ates:	645820 E	x 5023684 N		
PID:3	5212497, 35212505, 35212521, 35212513, 35044056, 35214014, 35214022, 3521402	22 and 35213	990	Site Address: E	Black Point, Gu	uysborough (County, NS			
Sourc	es and Dates of Mapping/Images: NS Wetlands Inventory (2012); NS Forest Inventory	(Current For	est Data - 2004);	Google Earth (2	2003)					
Evalu	ation Date: 10-Sep-14	Site Visit Dat	e:	20-Aug-14						
Weat	her Conditions (past 48 hours): Sun and Clouds									
Seaso	nal Weather Conditions: Typical									
SECT	ON ONE: WATERSHED CHARACTERISTICS									
1	Watershed Name (tertiary): 1EQ-SD	Size: 518	km²							
2	% Watershed Land Cover	For: 43	Nat: 36	Past/Hay: <1	Crop: <1	Urb/Com: 2	Road: <1	Other Dev: <1	(Gravel Pit	, Landfill, Industrial
3	% Watershed WL Cover and by Class	Total: 10%	SM: <1	BO: 6	FE: 1	FM: 2	FS: 1	SS: 1	CP: <1	VP: Present
SF1	Watershed condition	Н	М	L			•			
SF2	Proportion of WL area in watershed & opportunity for floodwater detention	н (M)	L						
SECT	ON TWO: WETLAND CHARACTERISTICS									
Wetla	and Type: Fen	WL size: 0.	.19 hectares		Landform: SI	lope		Landscape Po	sition: Lotic	Stream Confined
Wate	r flow path: Inflow	Wetland Orig	gin: Natural							
1	Water Regime	PF	SF	TF	ss (PS	RfT	IfT	AF	
2	# WL's within 30m project area	Total# 0	SM:	BO:	FE:	FM:	FS:	SS:	CP:	VP:
3	Is WL part of complex	Yes	No							
4	% each wetland type in complex	SM:	BO: 20	FE: 80	FM:	FS:	SS:	CP:	VP:	
5	Is WL bordering or associated with a lake or pond?	bordering		within 100m		N/A		specify		
6	Standing water?	Yes	Avg Dep:		% Inundated	l:				
7	Inlet or Outlet (circle all that apply)?	Inlet	Outlet							
8	Adjacent Upland Land Use within 100m (%)	For: 80	Nat:	PasHay:	Crop:	UrbCm:	Road:	Other Dev:	20 Beach	
g	Are there stressors in WL or WL buffer area? Circle primary stressor(s).	DD, CW	, WcS, O/C,E	B,DP,F,	M, ES,NE	,DwP,				
		M,GC,A	TV,DG,EA	R,Rr,U/Cl	D,F,FA	, other (speci	ify): Skidder	trail through w	etland	
10	Hydrology Altered (circle all that apply)?	Ditching	Dams	Tiles	Culvert	Well	Diversion	Other Specify		
SF3	Rate the general wetland condition/integrity	H	M	L						
SECT	ON THREE: ADJACENT LAND CONDITION AND INTEGRITY									
1	Average width of adjacent naturalized buffer	>1000m	n e							
2	Widths for water quality	H >1	M 8-15	L <8						
3	Widths for wildlife habitat	H >1 0 0	M 15-100	L <15						
4	Adjacent area vegetation condition (list % in each category)	H 100%	М	L						
5	Adjacent area diversity and structure (list % in each category)	H 100%	М	L						
6	Adjacent Upland Slope (list % in each category)	Steep 60%	Mod 25%	Gentle 15%						
7	Adjacent land supports water quality	Yes	No	Specify:						
8	Adjacent land supports wildlife habitat	Yes	No	Specify:						
SF4	Rate the overall condition and integrity land adjacent to wetland	\bigoplus	М	L	is buffer req	uired to mai	ntain red fla	ag functions of	wetland? I	f yes if no
SECT	ON FOUR: DOCUMENTED IMPORTANT FEATURES									
	Is the WL a WSS?	Yes	No							

SF6 Does the WL support commercial/recreational fish/shellfish?	Yes	No						
SF7 Species of concern (Fed/Prov)? Specify.	End	Thr - SARA	SpC	Red	Yellow S1	S2	<i>S3</i>	(N/A)
SF8 Wetland has conservation/compensation agreements/activity?	Yes	No	specify:					
SF9 Wetland is calcerous fen, black ash or cedar swamp?	Yes	No						
SF10 Within Drinking Water Protected Area (designated watershed/wellfield)	Yes	No	specify:					
SF11 WL within a floodplain and upstream of or within of a populated area?	Yes	No						
SF12 Fed/Prov/Municipal area of interest?	Yes	No	specify:					
SECTION FIVE: HYDROLOGIC CONDITION AND INTEGRITY								
1 Is WL source of stream or headwater(wc order 1 or 2)	Yes	No	Specify:					
2 Is WL geographically isolated?	Yes	No	Specify:					
3 WL ability to maintain characteristic hydrologic regime	High		Med		Low			
4 Water Storage Depth (list % in each class)	>30cm	15-30cm	up to 15cm		No ponding			
5 Signs of surface water retention observed?	SWcm, W	VSL, WCD,	WMcm, SM	cm, SD, <i>F</i>		_, BT, AR	, Other:	
6 Describe observable/historical anthropogenic sediment delivery	Low		Med		High			
7 Disturbance of WL soils	Low		Med		High			
8 Predominant soils adjacent to WL	Sand		Silt/loam		Clay bedrock			
9 Capacity of WL to alter/retard flows	High		Med		Low			
10 Roughness coefficient for surface water flow path	High		Med		Low			
11 Strormwater/Wastewater/Agricultural runoff detention	High		Med		Low			
12 Water Source	Natural		Mostly natur	al	Partly altered	Controlle	ed	
13 Hydrology of tidal wetlands	Unrestricte	d	Reduced		Restricted	N/A		
14 Coastal storm surge	Yes	No						
SF13 WL hydrologic condition	Natural	Modified		Significa	ntly Modified			
SF14 WL important for maintaining stream flow?	Yes	No						
SF15 WL ability to detain surface water	High	Med	Low					
SECTION SIX: WATER QUALITY								
1 Strormwater/Wastewater/Agricultural runoff as water source?	High		Med		Low			
2 Nutrients/sediments from surrounding land	High		Med		Low			
3 Significant flood/stormwater attenuation	Yes	No						
4 Vegetation capacity to settle suspended sediments	High		Med		Low			
5 WL type /landscape position holds/filters runoff?	Yes	(No						
SF16 Wetland improves water quality?	Yes	No						
SF17 Evidence of excess nutrient loading/contamination?	(low)	Med	High					
SF18 WL contributes to water quality in downstream resources	High	Med	Low					
SECTION SEVEN: GROUNDWATER INTERACTIONS								
1 Describe soils in wetland	Recharge		Discharge					
2 Land use / run off in subwatershed upstream	Recharge		Discharge					
3 Conditions of upland soils within 200m of wetland	Recharge		Discharge					
4 Hydroperiod of wetland	Recharge		Discharge					
5 Describe inlet/outlet configuration	Recharge)	Discharge					
6 Characterize topographic relief surrounding wetland	Recharge		Discharge					

SECTION EIGHT: SHORELINE STABILIZATION AND INTEGRITY Wetland fringing ocean/estuary/lake/pond/river/stream? Yes (No	SF19 WL serves as a recharge site	Yes	(No							
1 Wetland fringing ocean/estuary/lake/pond/river/stream? 2 % cover of rooted vegetation in shallow water zone H >50% M 10-50 L <10% 3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour H >10m M 3-10 L <3m 4 Prevalence of strong-stemmed emerg. veg (shoreline marshes and fens only) B Describe shoreline erosion potential High Med Low Shoreline/streambank veg condition upslope of water level WB Exposed WB Sheltered Low WB Exposed WB Sheltered WB Sheltered WB Sheltered WB Sheltered WB Sheltered Low WB Exposed We sheltered Low WB Low WB Low WB Low WB	SF20 WL serves as a discharge site	Yes	No							
2 % cover of rooted vegetation in shallow water zone H >50% M 10-50 L <10% 3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour H >10m M 3-10 L <3m 4 Prevalence of strong-stemmed emerg. veg (shoreline marshes and fens only) Bigh Med Low Describe shoreline erosion potential Specific shoreline/streambank veg condition upslope of water level Low Med High Artificial SF21 WL ability to stabilize shoreline WL ability to stabilize shoreline H M L N/A SECTION NINE: PLANT COMMUNITY 1 Vegetation diversity High Med Low 1b Dominant plant species and % cover in the WL list: Osmunda cinnamomea (20%)/Calamagrostis canadensis (40%)/ Eriophorum virginicum (30%)/Juncu effusus (20%)	SECTION EIGHT: SHORELINE STABILIZATION AND INTEGRITY									
3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour 4 Prevalence of strong-stemmed emerg. veg (shoreline marshes and fens only) 5 Describe shoreline erosion potential 6 Shoreline/streambank veg condition upslope of water level 5 Low Med High Med Low SF21 WL ability to stabilize shoreline FLANT COMMUNITY 1 Vegetation diversity High Med Low High Med Low Med Low Med Low Med Low SECTION NINE: PLANT COMMUNITY 1 Vegetation diversity High Med Low Med Low Med Low Med Low SECTION INDED TO MINE: PLANT COMMUNITY 1 Vegetation diversity High Med Low Med Low Med Low Med Low Med Low SECTION INDED TO MINE: PLANT COMMUNITY 1 Vegetation diversity High Med Low Med Low Med Low Med Low Med Low The plant species and % cover in the WL Med Low The plant species and % cover in the WL Med Med Low The plant species and % cover in the WL Med Med Med Low The plant species and % cover in the WL	1 Wetland fringing ocean/estuary/lake/pond/river/stream?	Yes	No	streamwidth >	4m	streamwidtl	h<4m	WB Exposed	WB Shelt	ered
3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour 4 Prevalence of strong-stemmed emerg. veg (shoreline marshes and fens only) 5 Describe shoreline erosion potential 6 Shoreline/streambank veg condition upslope of water level 5 Low Med High Med Low SF21 WL ability to stabilize shoreline FLANT COMMUNITY 1 Vegetation diversity High Med Low High Med Low Med Low Med Low Med Low SECTION NINE: PLANT COMMUNITY 1 Vegetation diversity High Med Low Med Low Med Low Med Low SECTION INDED TO MINE: PLANT COMMUNITY 1 Vegetation diversity High Med Low Med Low Med Low Med Low Med Low SECTION INDED TO MINE: PLANT COMMUNITY 1 Vegetation diversity High Med Low Med Low Med Low Med Low Med Low The plant species and % cover in the WL Med Low The plant species and % cover in the WL Med Med Low The plant species and % cover in the WL Med Med Med Low The plant species and % cover in the WL	2 % cover of rooted vegetation in shallow water zone	H >50%	M 10-50	L <10%						
5 Describe shoreline erosion potential 6 Shoreline/streambank veg condition upslope of water level Low Med High Artificial SF21 WL ability to stabilize shoreline H M L N/A SECTION NINE: PLANT COMMUNITY 1 Vegetation diversity High Med Low High Med Low High Med Low SECTION NINE: PLANT COMMUNITY 1 Vegetation diversity High Med Low High Med		H >10m	M 3-10	L <3m						
6 Shoreline/streambank veg condition upslope of water level SF21 WL ability to stabilize shoreline H M L N/A SECTION NINE: PLANT COMMUNITY 1 Vegetation diversity 1 Dominant plant species and % cover in the WL list: Osmunda cinnamomea (20%)/Calamagrostis canadensis (40%)/ Eriophorum virginicum (30%)/Juncu effusus (20%)	4 Prevalence of strong-stemmed emerg. veg (shoreline marshes and fens only)	High	Med	Low						
SF21 WL ability to stabilize shoreline H M L N/A SECTION NINE: PLANT COMMUNITY 1 Vegetation diversity High Med Low Dominant plant species and % cover in the WL list: Osmunda cinnamomea (20%)/Calamagrostis canadensis (40%)/ Eriophorum virginicum (30%)/Juncu effusus (20%)	5 Describe shoreline erosion potential	High	Med	Low						
SECTION NINE: PLANT COMMUNITY 1 Vegetation diversity 1 Dominant plant species and % cover in the WL High Med Low Iist: Osmunda cinnamomea (20%)/Calamagrostis canadensis (40%)/ Eriophorum virginicum (30%)/Juncu effusus (20%)	6 Shoreline/streambank veg condition upslope of water level	Low	Med	High	Artificial					
1 Vegetation diversity 1b Dominant plant species and % cover in the WL High Med Low list: Osmunda cinnamomea (20%)/Calamagrostis canadensis (40%)/ Eriophorum virginicum (30%)/Juncu effusus (20%)	SF21 WL ability to stabilize shoreline	Н	М	L	N/A					
1b Dominant plant species and % cover in the WL list: Osmunda cinnamomea (20%)/Calamagrostis canadensis (40%)/ Eriophorum virginicum (30%)/Juncu effusus (20%)	SECTION NINE: PLANT COMMUNITY		_							
	1 Vegetation diversity	High	Med	Low						
3 Dominant Non-native or Invasive species and % cover Yes No specify: %	1b Dominant plant species and % cover in the WL	list: Osmund	la cinnamomea(20%)/Calamagr	ostis canade	nsis (40%)/ Er	iophorum v	rirginicum (30%)	/Juncu effu	ısus (20%)
Speciment from native of intrastive species und // cover pres	3 Dominant Non-native or Invasive species and % cover	Yes	No	specify: %						
4 Vegetation Disturbance H M (L) specify type(s) below	4 Vegetation Disturbance	Н	M	L	specify type	(s) below				
5 Disturbance Types <u>HATV,G,,M,In, D/D, Im, OAH, Ii, Sd,E,,other</u> ,	5 Disturbance Types	H,ATV	_,G,,M,In	, D/D, Im_	, OAH	, Ii, Sd,	,E,,othe	r,		
7 Vegetative Integrity of plant community	7 Vegetative Integrity of plant community	E	Н	М	L					
SF22 Is the plant community unique or rare regionally or provincially? Yes no specify:	SF22 Is the plant community unique or rare regionally or provincially?	Yes	no	specify:						
SF23 Does the WL contain a diversity of plant communities H M L	SF23 Does the WL contain a diversity of plant communities	Н	M	L						
SF24 Rate the overall integrity/quality of plant community? (H) M L	SF24 Rate the overall integrity/quality of plant community?	(H)	М	L						
SF25 Are there any observed rare or endangered plant species? Specify. End Thr SpC Red Yellow S1 S2 S3 N/A	SF25 Are there any observed rare or endangered plant species? Specify.	End	Thr	SpC	Red	Yellow	51	S2	<i>S3</i>	(V/A)
SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY	SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY									
1 Interspersion of open water and vegetation (open water types only) H M L	1 Interspersion of open water and vegetation (open water types only)	Н	М (L						
1b % cover in vegetation verus open water100%	1b % cover in vegetation verus open water	100%								
2 Interspersion that best fits entire wetland H M L N/A	2 Interspersion that best fits entire wetland	Н	М		N/A					
3 Wetland condition related to detritus H M L N/A	3 Wetland condition related to detritus	Н	М	L	N/A					
4 Interspersion of other wetlands in vicinity	4 Interspersion of other wetlands in vicinity	Н	М	L						
6 Barriers/restriction between wetland and other habitat L M H	6 Barriers/restriction between wetland and other habitat	L	M	Н						
7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) (Yes) No list: Passerines, Deer tracks and pellets	7 Noteworthy wildlife or evidence (birds, mammals, amphibians, etc)	Yes	No	list: Passerines	, Deer tracks	and pellets				
8 Connected to permanent water (accessible to fish)? Exceptional High Med Low N/A	8 Connected to permanent water (accessible to fish)?	Exceptional	High	Med	Low	N/A				
9 Fish species observed or evidence seen (list) Yes No list:	9 Fish species observed or evidence seen (list)	Yes	No	list:						
10 Wetland part of contiguous upland or wetland: >50ha 25-50ha 10-25ha <10h	10 Wetland part of contiguous upland or wetland:	>50ha	25-50ha	10-25ha						
11 WL provides habitat for: Amphibians Reptiles Waterfowl Waterbirds Mammals Fish R/E species	11 WL provides habitat for:			Waterfowl	Waterbirds	Mammals	Fish	R/E species		
SF26 Does wetland support fish/fish habitat? Yes No specify:	SF26 Does wetland support fish/fish habitat?	Yes	No	specify:						
SF27 Rare or endangered fish/wildlife species found in the wetland? End Thr-SARA SpC Red Yellow S1 S2 S3 (V/A)		End		SpC	Red	Yellow	<i>5</i> 1	52	<i>S3</i>	(V/A)
SF28 Overall fish and wildlife habitat quality H M L	SF28 Overall fish and wildlife habitat quality	H (M	L						
SECTION ELEVEN: COMMUNITY USE/VALUE	SECTION ELEVEN: COMMUNITY USE/VALUE									
1 Describe community use VVCP,CO,PO,PA,,AV,GB,E,HI, WV, BO,HU, PG, BP,F, E, R, Other:		VV,CP,C	CO,PO,PA	,,AV,GB,E_	,HI, WV_	, BO,HU	, PG, BP_	_,F, E, R	, Other:	
SF29 Rate the wetland's community use/value H M (L)	SF29 Rate the wetland's community use/value	Н	М	L						

APPE	NDIX D: WL22 Nova Scotia Wetland Evaluation	Technique Fi	ield Data Sheet							
Proje	ct Name: Black Point Quarry	Evaluator: Sc	ott Burley		GPS Coordin	nates:	645630 E	x 5023728 N		
PID:3	5212497, 35212505, 35212521, 35212513, 35044056, 35214014, 35214022, 352140	22 and 352139	990	Site Address: E	Black Point, G	uysborough (County, NS			
Sourc	es and Dates of Mapping/Images: NS Wetlands Inventory (2012); NS Forest Inventor	y (Current For	est Data - 2004);	Google Earth (2	2003)					
Evalu	ation Date: 10-Sep-14	Site Visit Dat	e:	20-Aug-14						
Weat	her Conditions (past 48 hours): Sun and Clouds									
Seaso	nal Weather Conditions: Typical									
SECTI	ON ONE: WATERSHED CHARACTERISTICS									
1	Watershed Name (tertiary): 1EQ-SD	Size: 518	km²							
2	% Watershed Land Cover	For: 43	Nat: 36	Past/Hay: <1	Crop: <1	Urb/Com: 2	Road: <1	Other Dev: <1	(Gravel Pit	t, Landfill, Industrial
3	% Watershed WL Cover and by Class	Total: 10%	SM: <1	BO: 6	FE: 1	FM: 2	FS: 1	SS: 1	CP: <1	VP: Present
SF1	Watershed condition	Н	М	L						
SF2	Proportion of WL area in watershed & opportunity for floodwater detention	н (M	L						
SECTI	ON TWO: WETLAND CHARACTERISTICS									
Wetla	and Type: Fen	WL size: 0.	.1 hectares		Landform: S	lope		Landscape Po	sition: Loti	c Stream Confined
Wate	r flow path: Throughflow	Wetland Orig	gin: Natural							
1	Water Regime	PF	SF	TF		PS	RfT	IfT	AF	
2	# WL's within 30m project area	Total# 0	SM:	BO:	FE:	FM:	FS:	SS:	CP:	VP:
3	Is WL part of complex	Yes	No							
4	% each wetland type in complex	SM:	BO:	FE: 100	FM:	FS:	SS:	CP:	VP:	
5	Is WL bordering or associated with a lake or pond?	bordering		within 100m		N/A		specify		
6	Standing water?	Yes	Avg Dep:		% Inundated	d:				
7	Inlet or Outlet (circle all that apply)?	Inlet	Outlet							
8	Adjacent Upland Land Use within 100m (%)	For: 95	Nat:	PasHay:	Crop:	UrbCm:	Road:	Other Dev:	5% beach	l
9	Are there stressors in WL or WL buffer area? Circle primary stressor(s).	DD, CW	, WcS, O/C,E	B,DP,F,	M, ES,NE	,DwP,				
		M,GC,A	TV,DG,EA		D,F,FA	, other (spec	ify): Skidder	trail through w	etland	
10	Hydrology Altered (circle all that apply)?	Ditching	Dams	Tiles	Culvert	Well	Diversion	Other Specify	:	
SF3	Rate the general wetland condition/integrity	H	M	L						
SECTI	ON THREE: ADJACENT LAND CONDITION AND INTEGRITY									
1	Average width of adjacent naturalized buffer	>1000m	n							
	Widths for water quality	H >1)	M 8-15	L <8						
3	Widths for wildlife habitat	H >1 0 0	M 15-100	L <15						
4	Adjacent area vegetation condition (list % in each category)	H 100%	М	L						
5	Adjacent area diversity and structure (list % in each category)	H 100%	М	L						
6	Adjacent Upland Slope (list % in each category)	Steep 70%	Mod 25%	Gentle 5%						
7	Adjacent land supports water quality	Yes	No	Specify:						
8	Adjacent land supports wildlife habitat	Yes	No	Specify:						
SF4	Rate the overall condition and integrity land adjacent to wetland	\mathcal{H}	M	L	is buffer rec	uired to mai	ntain red fl	ag functions of	wetland?	If yes if no
SECTI	ON FOUR: DOCUMENTED IMPORTANT FEATURES									
SF5	Is the WL a WSS?	Yes	(No							

SF6 Does the WL support commercial/recreational fish/shellfish?	Yes	No						_
SF7 Species of concern (Fed/Prov)? Specify.	End	Thr - SARA	SpC	Red	Yellow S1	S2	S3	W/A)
SF8 Wetland has conservation/compensation agreements/activity?	Yes	No	specify:					
SF9 Wetland is calcerous fen, black ash or cedar swamp?	Yes	No						
SF10 Within Drinking Water Protected Area (designated watershed/wellfield)	Yes	No	specify:					
SF11 WL within a floodplain and upstream of or within of a populated area?	Yes	(No						
SF12 Fed/Prov/Municipal area of interest?	Yes	No	specify:					
SECTION FIVE: HYDROLOGIC CONDITION AND INTEGRITY								
1 Is WL source of stream or headwater(wc order 1 or 2)	Yes	No	Specify:					
2 Is WL geographically isolated?	Yes	No	Specify:					
3 WL ability to maintain characteristic hydrologic regime	High		Med		Low			
4 Water Storage Depth (list % in each class)	>30cm	15-30cm	up to 15cm		No ponding			
5 Signs of surface water retention observed?	SW_20_cm	, WSL, WCD_	, WMcm, SM	cm, SD	, AD, ID, PMT_x_, <i>F</i>	λΙ, BT, AR	, Other:	
6 Describe observable/historical anthropogenic sediment delivery	Low		Med		High			
7 Disturbance of WL soils	Low		Med		High			
8 Predominant soils adjacent to WL	Sand		Silt/loam		Clay bedrock			
9 Capacity of WL to alter/retard flows	High		Med		Low			
10 Roughness coefficient for surface water flow path	High		Med		Low			
11 Strormwater/Wastewater/Agricultural runoff detention	High		Med		Low			
12 Water Source	Natural		Mostly natur	al	Partly altered	Controlle	ed	
13 Hydrology of tidal wetlands	Unrestricte	d	Reduced		Restricted	N/A		
14 Coastal storm surge	Yes	No						
SF13 WL hydrologic condition	Natural	Modified		Significa	ntly Modified			
SF14 WL important for maintaining stream flow?	Yes	No						
SF15 WL ability to detain surface water	High	Med	Low					
SECTION SIX: WATER QUALITY								
1 Strormwater/Wastewater/Agricultural runoff as water source?	High		Med		Low			
2 Nutrients/sediments from surrounding land	High		Med		Low			
3 Significant flood/stormwater attenuation	Yes	No						
4 Vegetation capacity to settle suspended sediments	High		Med		Low			
5 WL type /landscape position holds/filters runoff?	(Yes)	No						
SF16 Wetland improves water quality?	Yes	No						
SF17 Evidence of excess nutrient loading/contamination?	(low)	Med	High					
SF18 WL contributes to water quality in downstream resources	High	Med	(Low)					
SECTION SEVEN: GROUNDWATER INTERACTIONS								
1 Describe soils in wetland	Recharge		Discharge					
2 Land use / run off in subwatershed upstream	Recharge		Discharge					
3 Conditions of upland soils within 200m of wetland	Recharge		Discharge					
4 Hydroperiod of wetland	Recharge		Discharge					
5 Describe inlet/outlet configuration	Recharge		Discharge					
6 Characterize topographic relief surrounding wetland	Recharge		Discharge					

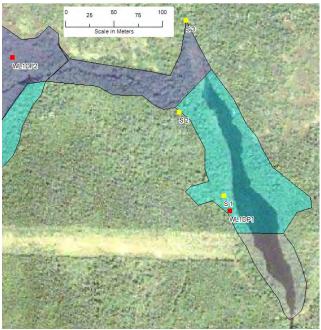
SECTION EIGHT: SHORELINE STABILIZATION AND INTEGRITY SECTION EIGHT: SHORELINE STABILIZATION AND INTEGRITY SECTION EIGHT: SHORELINE STABILIZATION AND INTEGRITY Well and fringing ocean/estuary/lake/pond/river/stream? Well and fringing ocean/estuary/lake/pond/river/streambank & 2 m depth contour 1-30m	SF19 WL serves as a recharge site	Yes	(No								
Wetland fringing ocean/estuary/lake/pond/river/stream? We Supposed Westered West	SF20 WL serves as a discharge site	Yes	No								
2 % cover of rooted vegetation in shallow water zone 3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour 4 Prevalence of strong-stemmed emerg, veg (shoreline marshes and fens only) 5 Describe shoreline erosion potential 6 Shoreline/streambank veg condition upsiope of water level 5 Escribon Nine: PLANT COMMUNITY 1 Vegetation diversity 1 Dominant plant species and % cover in the WL 1 Spout on the plant open and water and vegetation (pop normality) 5 Disturbance Types 4 Vegetative integrity of plant community 5 Poes the WL contain a diversity of plant community 5 Poes the WL contain a diversity of plant community? 5 Poes the	SECTION EIGHT: SHORELINE STABILIZATION AND INTEGRITY										
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4 Prevalence of strong-stemmed emerg, veg (shoreline marshes and fens only) 5 Describe shoreline erosion potential 6 Shoreline, streambank veg condition upslope of water level Low Med (tigh) Artificial 5F21 ML ability to stabilize shoreline 5ECTION NINE: PLANT COMMUNITY 1 Vegetation diversity 1 Dominant plant species and % cover in the WL 1 Dominant plant species and % cover in the WL 1 Dominant Non-native or Invasive species and % cover 4 Vegetation Disturbance 5 Disturbance Types 7 Vegetative Integrity of plant community 5F22 Is the plant community unique or rare regionally or provincially? 5F23 Does the WL contain a diversity of plant communities H M L 5F24 Rate the overall integrity/quality of plant community? 5F25 Are there any observed rare or endangered plant species? Specify. 5 ECTION TEN: FISH AND WILDLIE HABITAT AND INTEGRITY 1 Interspersion of open water and vegetation (spen water types only) 4 Interspersion of other wetlands in vicinity 5 EXAMPLE AND WILDLIE HABITAT RAND INTEGRITY 1 Interspersion of other wetlands in vicinity 4 Interspersion of other wetlands in vicinity 5 Interspersion of other wetlands in vicinity 6 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians, etc) Yes No list: Passerines, Deer tracks, Leapard Frog	2 % cover of rooted vegetation in shallow water zone	H >50%	M 10-50	L <10%							
Secrible shoreline erosion potential	3 Avg veg WL width b/w shoreline/streambank & 2 m depth contour	H >10m	M 3-10	L <3m							
6 Shorreline/streambank veg condition upslope of water level W Lability to stabilize shoreline H M L N/A SECTION NINE: PLANT COMMUNITY 1 Vegetation diversity 1 Dominant plant species and % cover in the WL list: Osmunda cinnamomea (30%)/Calamagrastis (40%)/ Oclemena nemoralis (20%) 3 Dominant Non-native or Invasive species and % cover 4 Vegetation Disturbance H M L specify type(s) below 5 Disturbance Types H ATV G ,M In ,D/D ,Im ,OAH , Ii ,Sd E ,other , 7 Vegetative Integrity of plant community E H M L SF22 Is the plant community unique or rare regionally or provincially? F252 Is the Journal integrity/quality of plant community? F252 Is the overall integrity/quality of plant community? F253 Does the WL contain a diversity of plant community? F254 Rate the overall integrity/quality of plant community? H M L SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY 1 Interspersion of open water and vegetation (open water types only) H M L SCOVEN in vegetation versus open water 2 Interspersion for the test fits entire wetland H M L W CL N/A Wetland condition related to detritus H M L N/A Wetland condition related to detritus H M L N/A Wetland condition related to detritus H M L N/A Wetland condition related to detritus H M L N/A Wetland condition related to detritus H M L N/A Wetland condition related to detritus H M L N/A Wetland condition related to detritus H M L N/A Wetland condition related to detritus H M L N/A Wetland condition related to detritus H M L N/A Wetland condition related to detritus H M L N/A Wetland condition related to detritus H M L N/A Wetland condition related to detritus H M L N/A Wetland condition related to detritus H M L N/A Wetland condition related to detritus H M L N/A Wetland condition related to detritus H M L N/A Wetland condition related to detritus H M L N/A Wetland condition related to detritus H M L N/A Wetland condition related to detritus H M L N/A Wetland condition related to detritus H M L N/A We	4 Prevalence of strong-stemmed emerg. veg (shoreline marshes and fens only)	High	Med								
SECTION NINE: PLANT COMMUNITY High Med Low	5 Describe shoreline erosion potential	High	Med	Low							
SECTION NINE: PLANT COMMUNITY 1 Vegetation diversity 1 Dominant plant species and % cover in the WL 3 Dominant plant species and % cover in the WL 3 Dominant Non-native or Invasive species and % cover 4 Vegetation Disturbance 5 Disturbance Types 6 Disturbance Types 7 Vegetative Integrity of plant community 8 E	6 Shoreline/streambank veg condition upslope of water level	Low	Med	High	Artificial						
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1b Dominant plant species and % cover in the WL 3 Dominant Non-native or Invasive species and % cover 4 Vegetation Disturbance 5 Disturbance Types H M L specify type(s) below 5 Disturbance Types H M L specify type(s) below 7 Vegetative Integrity of plant community 8 F22 Is the plant community unique or rare regionally or provincially? 8 F23 Does the WL contain a diversity of plant community? 8 H M L 8 SF23 Are the overall integrity/quality of plant community? 8 H M L 8 SF25 Are there any observed rare or endangered plant species? Specify. 8 End Thr SpC Red Yellow 8 S2 S3 (N/A) 8 SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY 1 Interspersion of open water and vegetation (open water types only) 1 Interspersion of open water and vegetation (open water types only) 2 Interspersion of other wetlands in vicinity 3 Wetland condition related to detritus 4 Interspersion of other wetland and other habitat 5 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 6 Parriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 1 Vegetation Disturbance Vegetation Verus open water 2 Vegetation Disturbance Vegetation Verus open water 3 Vegetation Disturbance Vegetation Verus open water 4 Vegetation Disturbance Vegetation Verus open water 5 Disturbance Types 5 Vegetation Disturbance Vegetation Verus open water 5 Vegetation Disturbance Vegetation Verus open water 5 Vegetation Disturbance Vegetation Verus open water 6 Vegetation Disturbance Vegetation Verus open water 7 Noteworthy wildlife or evidence (birds, mammals, amphibians, etc) 1 Ves No Vegetation Disturbance Vegetation Verus open Vegetation Verus open Vegetation Verus open Vegetation Vegeta	SECTION NINE: PLANT COMMUNITY										
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4 Vegetation Disturbance 5 Disturbance Types H ATV _ G _ ,,M _ In _ D/D _ Im _ OAH _ , Ii _ , Sd _ E _ ,,other _ , 7 Vegetative Integrity of plant community E H M L 5F22 Is the plant community unique or rare regionally or provincially? FF23 Does the WL contain a diversity of plant communities FF24 Rate the overall integrity/quality of plant community? FF25 Are there any observed rare or endangered plant species? Specify. FF26 Are there any observed rare or endangered plant species? Specify. FF27 Interspersion of open water and vegetation (open water types only) 1 Interspersion of open water and vegetation (open water types only) 2 Interspersion that best fits entire wetland H M L N/A 3 Wetland condition related to detritus H M L N/A 4 Interspersion of other wetlands in vicinity 6 Barriers/restriction between wetland and other habitat L M H N L N/A I Interspersion of other wetlands in vicinity H M L N/A I Interspersion of other wetlands in vicinity H M L N/A I Interspersion of other wetlands and other habitat H M L N/A I Interspersion of other wetlands and other habitat H M L N/A I Interspersion of other wetlands and other habitat H M L N/A I Interspersion of other wetlands and other habitat H M L N/A I Interspersion of other wetlands and other habitat H M L N/A I Interspersion of other wetlands and other habitat H M L N/A I Interspersion of other wetlands and other habitat L M H I Interspersion of other wetlands and other habitat L M H I Interspersion of other wetlands and other habitat L M H I Interspersion of other wetlands and other habitat L M H I Interspersion of other wetlands and other habitat I Interspersion of other wetlands and other	1b Dominant plant species and % cover in the WL	list: Osmund	la cinnamomea ((30%)/Calamagr	ostis (40%)/ (Oclemena ne	moralis (20	1%)	•	•	
5 Disturbance Types 7 Vegetative Integrity of plant community E H ATV G ,M In D/D ,Im OAH , Ii , Sd E ,other , The Mole L SF22 Is the plant community unique or rare regionally or provincially? Yes no specify: FF23 Does the WL contain a diversity of plant communities H M L SF24 Rate the overall integrity/quality of plant community? H M L SF25 Are there any observed rare or endangered plant species? Specify. SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY 1 Interspersion of open water and vegetation (open water types only) B Wetland condition related to detritus H M L N/A 3 Wetland condition related to detritus H M L N/A 4 Interspersion of other wetlands in vicinity 6 Barriers/restriction between wetland and other habitat L M H M L N/A Interspersion of other wetlands on vicinity G Barriers/restriction between wetland and other habitat L M H M L N/A Interspersion of other wetlands and other habitat L M H M L N/A Interspersion of other wetlands and other habitat L M H M L N/A Interspersion of other wetlands and other habitat L M H M L N/A Interspersion of other wetlands and other habitat L M H M L N/A Interspersion of other wetlands and other habitat L M H M L N/A Interspersion of other wetlands and other habitat L M H M L N/A Interspersion of other wetlands and other habitat L M H M L N/A Interspersion of other wetlands and other habitat L M H M L N/A Interspersion of other wetlands and other habitat L M H M L N/A Interspersion of other wetlands and other habitat D N/A Interspersion of other wetlands and other habitat D N/A Interspersion of other wetlands and other habitat D N/A Interspersion of other wetlands and other habitat D N/A Interspersion of other wetlands and other habitat D N/A Interspersion of other wetlands and other habitat D N/A Interspersion of other wetlands and other habitat D N/A Interspersion of other wetlands and other habitat D N/A Interspersi	3 Dominant Non-native or Invasive species and % cover	Yes	No	specify: %							
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SF22 Is the plant community unique or rare regionally or provincially? Yes no specify:	5 Disturbance Types	H,ATV	_,G,M,In	, D/D, lm_	, OAH,	Ii, Sd	,E,,othe	er,			
SF23 Does the WL contain a diversity of plant communities H M L	7 Vegetative Integrity of plant community	E	Н	М	L						
SF24 Rate the overall integrity/quality of plant community? ### M ### L ### SF25 Are there any observed rare or endangered plant species? Specify. ### SF25 Are there any observed rare or endangered plant species? Specify. ### SF26 Red Yellow \$1 \$2 \$3 \$N/4\$ ### SF26 Red Yellow \$1 \$2 \$3 \$N/4\$ ### M ### L ### Interspersion of open water and vegetation (open water types only) ### M ### L ### M ### L ### M ### M ### M ### M ### M ### M ### M ### M ### M ### M ### M ### M	SF22 Is the plant community unique or rare regionally or provincially?	Yes	no	specify:							
SF25 Are there any observed rare or endangered plant species? Specify. End Thr SpC Red Yellow S1 S2 S3 N/A SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY 1 Interspersion of open water and vegetation (open water types only) H M L 1b % cover in vegetation verus open water 95% 2 Interspersion that best fits entire wetland H M L N/A 3 Wetland condition related to detritus H M L N/A 4 Interspersion of other wetlands in vicinity H M L 6 Barriers/restriction between wetland and other habitat L M H 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) Yes No list: Passerines, Deer tracks, Leapard Frog	SF23 Does the WL contain a diversity of plant communities	Н	M	L							
SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY 1 Interspersion of open water and vegetation (open water types only) 1 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 1 Interspersion of open water and vegetation (open water types only) 1 M M L N/A M L N/A N/A	SF24 Rate the overall integrity/quality of plant community?	H	М	L							
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1b % cover in vegetation verus open water 2 Interspersion that best fits entire wetland 3 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity 6 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) 95% M	SECTION TEN: FISH AND WILDLIFE HABITAT AND INTEGRITY										
2 Interspersion that best fits entire wetland 3 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity 6 Barriers/restriction between wetland and other habitat 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) H M H M L N/A L N/A H M L N/A L	1 Interspersion of open water and vegetation (open water types only)	Н	M (L							
3 Wetland condition related to detritus 4 Interspersion of other wetlands in vicinity Barriers/restriction between wetland and other habitat Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) H M L M H Ist: Passerines, Deer tracks, Leapard Frog	1b % cover in vegetation verus open water	95%									
4 Interspersion of other wetlands in vicinity Barriers/restriction between wetland and other habitat Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) H M H H M H Issue of Marriers Passerines, Deer tracks, Leapard Frog	2 Interspersion that best fits entire wetland	Н	М	L	N/A						
6 Barriers/restriction between wetland and other habitat L M H 7 Noteworthy wildlife or evidence (birds, mammals, amphibians,etc) Yes No list: Passerines, Deer tracks, Leapard Frog	3 Wetland condition related to detritus	Н	М	L	N/A						
7 Noteworthy wildlife or evidence (birds, mammals, amphibians, etc) Yes No list: Passerines, Deer tracks, Leapard Frog	4 Interspersion of other wetlands in vicinity	н (М	L							
	6 Barriers/restriction between wetland and other habitat	L	М	Н							
9 Connected to permanent water (accessible to fich)2 Exceptional High	7 Noteworthy wildlife or evidence (birds, mammals, amphibians, etc)	Yes	No	list: Passerines	, Deer tracks	, Leapard Fro	g				
of connected to be mailent water (accessible to lish): Exceptional Inight Ivied Low Ivi/A	8 Connected to permanent water (accessible to fish)?	Exceptional	High	Med	Low	N/A					
9 Fish species observed or evidence seen (list) Yes No list:	9 Fish species observed or evidence seen (list)	Yes	No	list:							
10 Wetland part of contiguous upland or wetland: >50ha 25-50ha 10-25ha <10h	10 Wetland part of contiguous upland or wetland:	>50ha	25-50ha	10-25ha							
11 WL provides habitat for: Amphibians Reptiles Waterfowl Waterbirds Mammals Fish R/E species	11 WL provides habitat for:	Amphibians	Reptiles	Waterfowl	Waterbirds	Mammals	Fish	R/E species			
SF26 Does wetland support fish/fish habitat? Yes No specify:	SF26 Does wetland support fish/fish habitat?	Yes	No	specify:							
SF27 Rare or endangered fish/wildlife species found in the wetland? End Thr-SARA SpC Red Yellow S1 S2 S3 N/A	SF27 Rare or endangered fish/wildlife species found in the wetland?	End	Thr-SARA	SpC	Red	Yellow	S1	S2	<i>S3</i>	(V/A)	
SF28 Overall fish and wildlife habitat quality H M L	SF28 Overall fish and wildlife habitat quality	H (M	L							
SECTION ELEVEN: COMMUNITY USE/VALUE	SECTION ELEVEN: COMMUNITY USE/VALUE										
1 Describe community use VVCPCOPOPA,,AVGB,E,HI, WV, BO,HU, PG, BP,F, E, R, Other:	1 Describe community use	VV,CP,C	CO,PO,PA	,,AV,GB,E_	_,HI, WV	, BO,HU	, PG, BP	,F, E, R	, Other:		
	SF29 Rate the wetland's community use/value	Н	М (L							



APPENDIX E
Additional Delineation Data Sheets

Wetland 1





Two streams feed into this large beaver pond from the north. The wetland surrounding the pond is narrow and in some cases non-existent due to steep rock outcrops at the edge of the water. The beaver dam is at the southern end of the open water. Forested wetland is present at the bottom of a steep slope in the southern quadrant near the power line and riparian shrub wetland is associated with both streams.



Open water seen from the south with some riparian Shrub Wetland



Beaver dam seen from the north.



Beaver lodge



Forested Wetland at Wetland 1



Upland habitat adjacent to Forested Wetland at the base of the steep incline at Wetland 1



Shrub Riparian Wetland where Wetland 1 joins Wetland 17

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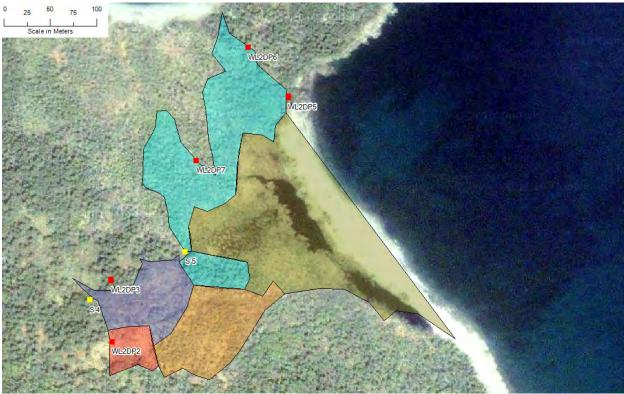
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Wetland 2





Wetland 2 is a complex of habitat types including marsh, swamp, forested wetland and riparian wetland. This delineation was problematic because of transitional habitat which stretched between the two coastlines behind the headland. Historic habitation was also present but had little effect on wetland habitat although some fern-dominated wet meadow habitat was identified in isolated areas. Some microtopographical relief was present along the western and southern edges of the complex. Open water was found not to be brackish.



Seepy fern-dominated slope near western wetland edge



Upland habitat near wetland 2 dominated by coniferous forest



Transitional wetland habitat dominated by shrubs and blown down conifers behind the headland west of the main estuary



Upland near Wetland 2



Marshy fen portion of the Wetland 2 complex

Р	roject Site	: Poin	t Bla	ick									Date:	July	y, 2	011				Sampl	e Poi	nt:	CBV	VL2D	P1	J	ob #:			
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Surface Soil Cracks (B6) Drainage Patterns (B10) Geomorphic Position (D2) John Moss Trim Lines (B16) Drainage Patterns (B10) Microtopographic Relief (D4) FAC-Neutral Test (D5) Saturation Visible on Aerial Imagery (C9) Field Observations: Surface Water Present? Water Table Present? Ves No x Depth Wetland Hydrology Present? Yes No x Depth Wetland Hydrology Present? Yes No x Depth Water Table Present? Ves No x Depth Wetland Hydrology Present? Yes No x Depth Water Table Present? Saturation Present? Ves No x Depth Wetland Hydrology Present? Remark Fredox Features Color(moist) **Color(moist) **Color(moist) **Type:C=Concentration,D=Depletion,RM=Reduced Matrix,CS=Covered or Coated Sand Grains.**2Location:PL=Pore Lining,M=Matrix **Redox Features** **Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Depth(em) Matrix **Redox Features** Color(moist) **Type:C=Concentration,D=Depletion,RM=Reduced Matrix,CS=Covered or Coated Sand Grains.**2Location:PL=Pore Lining,M=Matrix **Hydric Soil Indicators:* Histosol (A1) Histosol (A1) Sandy Redox (S5) Histosol (A2) Stripped Matrix (S6) Black Histo (A3) Dark Surface (S7) Hydrogen Sulfide (A4) Polyvalue Below Surface (S8) Thin Dark Surface (S9) Depleted Below Dark Surface (A12) Depleted Below Dark Surface (A12) Depleted Matrix (F2) Thick Dark Surface (A12) Sandy Mukey Mineral (S1) Redox Depleted Matrix (F3) Sandy Gleyed Matrix (S4) Restrictive Layer Type (if observed) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depresent Sands (F8) Hydric Soil Present? Yes No x Andrew (F7) Sandy Gleyed Matrix (S4) Restrictive Layer Type (if observed) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depresent Sands (F8) Hydric Soil Present? Yes No x Andrew (F7) Sandy G	Surface Water (A1)	\perp	_			Water Staine	ed Leaves (E	39)		\perp			
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Hydric Soil x Histoso Histic E Black F Hydrog Stratifie Deplete Thick D Sandy 5cm Mc Sandy Sandy	Indicato I (A1) Epipedon (. Iistic (A3) en Sulfide d Layers (. d Below E ark Surfac Mucky Mir ucky Peat Gleyed Ma	(A4) (A5) ark Sue (A12) eral (Sor Pea	rface () (31) (t (S3) (4)	(A1		uced	Sandy Stripp Dark S Polyw Thin D Loamy Deple Redox Deple Redox	Redded Masses Redded Redded Masses Redded Re	ox (S5) atrix (S6) ces (S7) Below Surface (Syed Matrix (F3) k Surface	face (S9) (x (F2) (F6) (ce (F	(\$8)	d Gra									

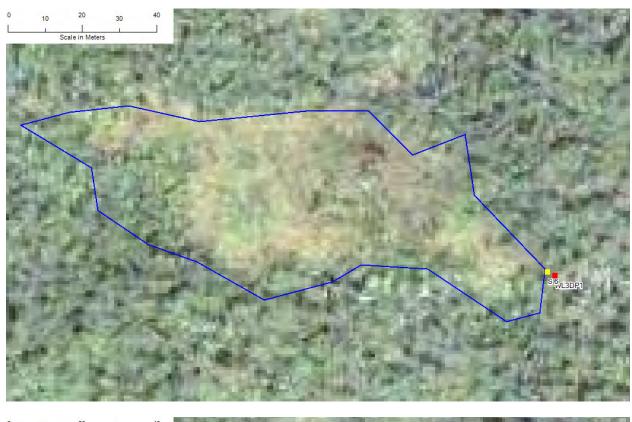
Project Site:	Point	Blac	k								Date:	Jul	y, 20	11			Samp	le P	oin	: V	VL2	DP6		J	lob #	:		
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s this a pote	ential F	Probl	em Ar	ea?			Yes	х		No		Ex	plain	Expo	sure ar	nd er	osion (of he	eadl	and a	ffec	ting o	drain	age	behii	nd es	tuar	y
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2	Rubu	s put	escen	ıs		30			х			FA	CW				th	nat a	are (OBL, F	FAC	W,F	AC:		3	1		
3																												
4																				f Dom								
5																	S	рес	ies	acros	s a	ll stra	ata:		5	5		
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						50		=	Tota	al Co	over						th	nat a	are (OBL, F	FAC	W,F	AC:		6	0		
Shrub S	tratum	: (Plo	ot size:	5m2)																							
1	Picea	glau	ca			20			х			FA	CU				P	rev	ale	nce l	Ind	ex W	ork	shee	et:			
2	Betul	a pap	yrifera			5			х			FA	CU							Total	%C	Cover	of:		Ν	/lultip	ly b	y:
3	Abies	bals	amea			20			х			FA	С				С	BL	Spe	cies					х	1 =		0
4																	F	ACV	w s	pecie	s				х	2 =		0
5																	F	AC	Spe	cies					х	3 =		0
						45		=	Tota	al Co	over									ecies	s				х	4 =		0
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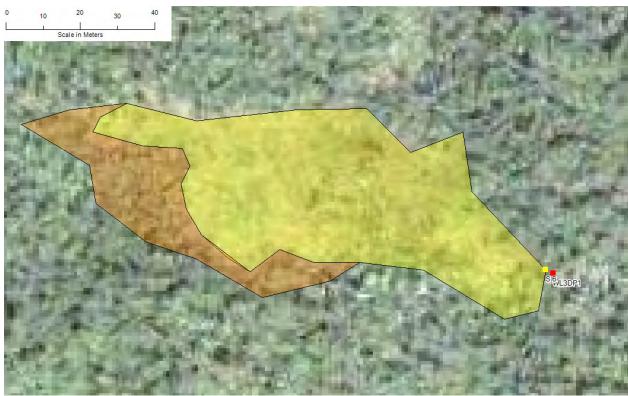
Surface Water (A1)					Water S	tained Le	aves (B	9)								
High Water Table (A2)				Aquatic	Fauna (B	13)									
Saturation (A3)					Marl De	posits (B1	5)									
Watermarks					Hydroge	en Sulfide	Odor (0	C1)								
Sediment Deposits (E	32)					d Rhizosp			Roots	(C3)						
Drift Deposits (B3)						e of Redu		, ,								
Algal Mat of Crust (B	1)					Iron reduc		illed Soil	s (C6)						
Iron Deposits (B5)						ck Surfac	. ,				-			_		
Inundation Visible on		_		_	Other (E	xplain in	Remark	(s)								
Sparsely Vegetated C			. ,	_							-					
Secondary Indicators: (i		of t	wo requ	ired)		-				_	-			_	-	
Surface Soil Cracks (-		or Stress				_	-			_	-	
Drainage Patterns (B				-		phic Posi		2)			-			-	-	
Moss Trim Lines (B16					•	Aquitard		D4)			-					
Dry-Season Water Ta				-		oographic		D4)		_	+-				-	
Crayfish Burrows (C8) Saturation Visible on		1200	n/ (Ca)	\vdash	rau-Ne	utral Test	(DO)			_	-			-	+	
Field Observations:	Aenai III	iage	ry (C9)											-		
Surface Water Present?	Yes		No x	Dep	oth						+					
Water Table Present?	Yes	_	No	Der				Wetlan	d Hve	trologi	, Dro	eant?	,	Yes	x	No
Saturation Present?	Yes		No	Dep				Wetian	u iiye	ii olog	y 1 10	æin.		163	<u>^</u>	
Saturation riesent:	163	^	INU	Det	J.11 U											
Soil Profile Profile Description: (Des	scribe to	the	depth ne	eded	d to docu				irm th	e abse	nce c	f indicate	ors)			
Depth(cm) Matrix		۵,		0.1		Redox			_	Loc ²	-			-	-	_
Color(moist)		<u>%</u>		COI	or(moist)		%	Type ¹		LOC			Text	ure		Remar
0 to 10cm organic																
0 to 10cm organic																
0 to 10cm organic refusal (gravel)													,			
	=Depleti	on,F	M=Redu	uced	Matrix,C	S=Covere		ated San	d Gra	ins.²Lo	catio	n:PL=Po		ning,M	=Matr	ix
refusal (gravel)	=Depletion	on,F	M=Redu	uced	Matrix, C	S=Covere		ated San	d Gra	ins.²Lo	catio	n:PL=Po		ning,M	=Matr	ix
refusal (gravel)	=Depleti	on,F	M=Redu	uced	Matrix,C	S=Covere		ated San	d Gra	ins. ² Lo	catio	n:PL=Po		ning,M	=Matr	ix
refusal (gravel) 1Type:C=Concentration,D	=Depleti	on,F	M=Redu	uced		S=Covere	d or Co	ated San	d Gra	ins. ² Lo	catio	n:PL=Po		ning,M	=Matr	ix
refusal (gravel) 1Type:C=Concentration,D	=Depleti	on,F	M=Redu	uced	Sandy I		d or Co	ated San	d Gra	ins. ² Lo	catio	n:PL=Po		ing,M	=Matr	ix
refusal (gravel) 1Type:C=Concentration,D Hydric Soil Indicators: x Histosol (A1)	=Depleti	on,F	M=Redu	uced	Sandy I Stripped Dark Su	Redox (S5 I Matrix (S Irfaces (S	d or Co		d Gra	ins.²Lo	catio	n:PL=Po		ning,M	=Matr	ix
refusal (gravel) 1 Type:C=Concentration, D Hydric Soil Indicators: x Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4		on,F	M=Redu	uced	Sandy I Stripped Dark Su Polyvalu	Redox (S5 I Matrix (S Irfaces (S' Ire Below S	d or Co) (66) 7) Surface		d Gra	ins.²Lo	catio	n:PL=Po		ning,M	=Matr	ix
refusal (gravel) 1 Type:C=Concentration, D Hydric Soil Indicators: x Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4 Stratified Layers (A5)				uced	Sandy I Stripped Dark Su Polyvalu Thin Da	Redox (S5 I Matrix (Surfaces (Single Below Strk Surface	d or Co) (66) (7) Surface (S9)	(S8)	d Gra	ins. ² Lo	catio	n:PL=Po		ning,M	=Matr	ix
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refusal (gravel) 1 Type:C=Concentration, D Hydric Soil Indicators: x Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4 Stratified Layers (A5) Depleted Below Dark Thick Dark Surface (A Sandy Mucky Minera	Surface 112)	(A1		uced	Sandy I Stripped Dark St Polyvalu Thin Da Loamy Deplete Redox I	Redox (S5 d Matrix (Surfaces (Sinfaces (Sinfaces (Sinfaces)) de Below Surfaces Gleyed Matrix (Idan Matrix (Id	d or Co) 66) 7) Surface (S9) attrix (F2-3) ce (F6)	(S8) 2)	d Gra	ins. ² Lo	catio	n:PL=Pa		ming,M	=Matr	ix
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	Vater Table (A2))			-			una (B1											
	tion (A3)				-	•		its (B15	-										
Water		\top	т		-			Sulfide C		(1)	\Box								
_	ent Deposits (B	2)	т		_					n Living F	Roots	(C3)							
	eposits (B3)				-			f Reduc				(/							
_	Mat of Crust (B4	ł)			-					illed Soils	s (C6)							
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	tion Visible on	Aerial In	nage	ery (B7)				ain in F		s)									
Spars	ely Vegetated C	oncave	Surf	iace (B8)			Ť												
Secondar	y Indicators: (n	ninimun	ı of	two requi	ired)														
	e Soil Cracks (E					Stunt	ed or	Stresse	d Plan	ts (D1)									
Draina	ge Patterns (B1	0)			-			c Positi											
	Trim Lines (B16				:	Shallo	w Aq	uitard ([D3)										
_	eason Water Ta		П		-			raphic F		D4)									
	sh Burrows (C8)				-			al Test (
	tion Visible on		nage	ery (C9)			T	TT)	T										
Field Obse			Ė																
	ater Present?	Yes	3	No x	Dept	h													
Water Tab	le Present?	Yes	X	No	Dept	h 3	0			Wetlan	d Hy	drolog	y Pres	ent?		Yes	х	No	
Saturation	Present?	Yes	X	No	Dept	h 0													Г
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Soil Profi Profile De	scription: (Des	cribe to	the	depth ne	eded	to do	cume	nt the ir	ndicato	r or confi	rm th	e abse	nce of	indicat	ors)				
Depth(cm)	Matrix						F	Redox F	eature	es									
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Wetland 3





Wetland 3 is a fen dominated by typical bog/fen species of wetland plants and surrounded by steep rock outcroppings covered with a thin layer of organic soil. A small stream runs along the side of the wetland at the base of one of these steep banks and some transitional shrub wetland occupies the edge of the clearing.



Open Fen at Wetland 3



Shrub cover and small stream flowing along the edge of wetland 3

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Wetland 4





Wetland 4 is a Forested Wetland dominated by Red Spruce (*Picea rubens*) and with an open understory dominated mostly by Sphagnum and by only a few species of herbs and shrubs. This is a relatively small wetland which has formed amongst the variable contours of bedrock and can be distinguished by the surrounding forest largely by the presence of Sphagnum and organic soils.



Forested Wetland with open understory dominated by few herbaceous plant species and abundant mosses



Forested Wetland and adjacent upland differ in hydrology, soil profile and bryophyte flora