Electron Intake Project

Summary:

Construction Stormwater weekly site inspection reports from August 8th through November 6th.

During this period, in river work had begun for Phase 1 of the Intake project. The project was put on hold as Electron Hydro addressed the Astroturf incident and underwent stop work orders. During that time new permits were granted to complete Phase 1 and work was completed by October 28th.

The Construction Stormwater reports were conducted by Steve Goodrich (CESCL & SWPPP designer) or Corey Kleppe (CESCL). Corey was under the direction and supervision of Steve Goodrich.

Construction Stormwater Site Inspection Form

Project Name Electron Diversion **Permit #** _____ **Inspection Date** 11/6/20 **Time** 10:00 am 3:30 pm

Name of Certified Erosion Sediment Control Lead (CESCL) or qualified inspector if *less than one acre*

Print Name: STEVEN GOODRICH

Approximate rainfall amount since the last inspection (in inches): ±2"

Approximate rainfall amount in the last 24 hours (in inches): ±2"

Current Weather Clear ☐ Cloudy ☒ Mist ☐ Rain ☐ Wind ☐ Fog ☐

A. Type of inspection: Weekly ☒ Post Storm Event ☐ Other ☐

B. Phase of Active Construction (*check all that apply*):

Pre Construction/installation of erosion/sediment controls	☐	Clearing/Demo/Grading	☐	Infrastructure/storm/roads	☐
Concrete pours	☐	Vertical Construction/buildings	☐	Utilities	☐
Offsite improvements	☒	Site temporary stabilized	☐	Final stabilization	☐

Clean up - winterization

C. Questions:

1. Were all areas of construction and discharge points inspected? Yes X No ___
2. Did you observe the presence of suspended sediment, turbidity, discoloration, or oil sheen Yes ___ No X
3. Was a water quality sample taken during inspection? (*refer to permit conditions S4 & S5*) Yes ___ No X
4. Was there a turbid discharge 250 NTU or greater, or Transparency 6 cm or less?* Yes ___ No ___
5. If yes to #4 was it reported to Ecology? Yes ___ No ___
6. Is pH sampling required? pH range required is 6.5 to 8.5. Yes ___ No ___

If answering yes to a discharge, describe the event. Include when, where, and why it happened; what action was taken, and when.

Visual of Pond much clearer than River ≈ 800cf

*If answering yes to # 4 record NTU/Transparency with continual sampling daily until turbidity is 25 NTU or less/ transparency is 33 cm or greater.

Sampling Results: Date: _____

Parameter	Method (circle one)	Result			Other/Note
		NTU	cm	pH	
Turbidity	tube, meter, laboratory				
pH	Paper, kit, meter				

Construction Stormwater Site Inspection Form

D. Check the observed status of all items. Provide "Action Required "details and dates.

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
1 Clearing Limits	Before beginning land disturbing activities are all clearing limits, natural resource areas (streams, wetlands, buffers, trees) protected with barriers or similar BMPs? (high visibility recommended)	X					
2 Construction Access	Construction access is stabilized with quarry spalls or equivalent BMP to prevent sediment from being tracked onto roads?	X	X				
	Sediment tracked onto the road way was cleaned thoroughly at the end of the day or more frequent as necessary.			X			
3 Control Flow Rates	Are flow control measures installed to control stormwater volumes and velocity during construction and do they protect downstream properties and waterways from erosion?	X	X		clean rebuild as materials moved		1
	If permanent infiltration ponds are used for flow control during construction, are they protected from siltation?			X			
4 Sediment Controls	All perimeter sediment controls (e.g. silt fence, wattles, compost socks, berms, etc.) installed, and maintained in accordance with the Stormwater Pollution Prevention Plan (SWPPP).	X			sides replace cut, recover		3
	Sediment control BMPs (sediment ponds, traps, filters etc.) have been constructed and functional as the first step of grading.	X			being left to stabilize		4
	Stormwater runoff from disturbed areas is directed to sediment removal BMP.	X					
5 Stabilize Soils	Have exposed un-worked soils been stabilized with effective BMP to prevent erosion and sediment deposition?	X					

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
5 Stabilize Soils Cont.	Are stockpiles stabilized from erosion, protected with sediment trapping measures and located away from drain inlet, waterways, and drainage channels?	X					
	Have soils been stabilized at the end of the shift, before a holiday or weekend if needed based on the weather forecast?	X		X			
6 Protect Slopes	Has stormwater and ground water been diverted away from slopes and disturbed areas with interceptor dikes, pipes and or swales?	X					
	Is off-site storm water managed separately from stormwater generated on the site?	X					
	Is excavated material placed on uphill side of trenches consistent with safety and space considerations?	X					
	Have check dams been placed at regular intervals within constructed channels that are cut down a slope?	X			Materials removed remove		
7 Drain Inlets	Storm drain inlets made operable during construction are protected.	X			Pond might be pipe play		5
	Are existing storm drains within the influence of the project protected?						
8 Stabilize Channel and Outlets	Have all on-site conveyance channels been designed, constructed and stabilized to prevent erosion from expected peak flows?	X			was cleaned		
	Is stabilization, including armoring material, adequate to prevent erosion of outlets, adjacent stream banks, slopes and downstream conveyance systems?	X					3
9 Control Pollutants	Are waste materials and demolition debris handled and disposed of to prevent contamination of stormwater?	X					
	Has cover been provided for all chemicals, liquid products, petroleum products, and other material?	X					
	Has secondary containment been provided capable of containing 110% of the volume?	X					
	Were contaminated surfaces cleaned immediately after a spill incident?	X		X			
	Were BMPs used to prevent contamination of stormwater by a pH modifying sources?			X			

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
9 Cont.	Wheel wash wastewater is handled and disposed of properly.			X			
10 Control Dewatering	Concrete washout in designated areas. No washout or excess concrete on the ground.	X			NONE SEEN		NO
	Dewatering has been done to an approved source and in compliance with the SWPPP.	X					
	Were there any clean non turbid dewatering discharges?	X			NONE		NO
11 Maintain BMP	Are all temporary and permanent erosion and sediment control BMPs maintained to perform as intended?	X			MUST MOVE REST FOR DEWATER SYS.		REST
12 Manage the Project	Has the project been phased to the maximum degree practicable?	X					
	Has regular inspection, monitoring and maintenance been performed as required by the permit?	X					
	Has the SWPPP been updated, implemented and records maintained?	X					
13 Protect LID	Is all Bioretention and Rain Garden Facilities protected from sedimentation with appropriate BMPs?	X					
	Is the Bioretention and Rain Garden protected against over compaction of construction equipment and foot traffic to retain its infiltration capabilities?			X			
	Permeable pavements are clean and free of sediment and sediment laden-water runoff. Muddy construction equipment has not been on the base material or pavement.			X			
	Have soiled permeable pavements been cleaned of sediments and pass infiltration test as required by stormwater manual methodology?			X			
	Heavy equipment has been kept off existing soils under LID facilities to retain infiltration rate.						

E. Check all areas that have been inspected. ✔

All in place BMPs [X] All disturbed soils [X] All concrete wash out area [X] All material storage areas [X]
All discharge locations [X] All equipment storage areas [X] All construction entrances/exits [X]

Construction Stormwater Site Inspection Form

F. Elements checked "Action Required" (section D) describe corrective action to be taken. List the element number; be specific on location and work needed. Document, initial, and date when the corrective action has been completed and inspected.

Element #	Description and Location	Action Required	Completion Date	Initials
1	~~[illegible]~~ INTAKE ROAD	MATERIALS MOVED		
		REINSTALL NEW CHECK		
(2)	CLOSE OUT AND RELOCATION			
	OF MATERIALS THROUGHOUT	WE EXPOSED AREA TO		
	SIDE	BE RESTORED AND BMG		
		FROM EARLIER PLANS		
		RESTORED		

Attach additional page if needed

Sign the following certification:

"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief"

Inspected by: (print) STEVEN GOODRICH (Signature) [signature] Date: 11/6/20

Title/Qualification of Inspector: ENGINEER \ CDPCL

12345, SITE BEING REARRANGED and materials BEING RESTORED, AREA BEING CLEANED, SHORE ROCK HAS BEEN REPLACED

- HYDRAULIC BALANCE FOR SEDIMENT TRAP BEING ALLOW AS CONVEYANCE DITCH HAS BEEN CLEANED OUT; NO FLOW FROM DEWATERING BEING INTRODUCED SO SHOULD BE LEFT DORMANT FOR MOST OF WINTER TO ALLOW SLOW SEEPAGE,
- SHORE BANKS RESTORED WITH NEW ROCK. ROAD, SIDE SLOPES TO BE ADD ADDITION COVER, Cut off or Water Bars TO BE ADDED
- ROAD RESURFACED TO BE CLEANED AGAIN

Construction Stormwater Site Inspection Form

Project Name Electron intake **Permit #** WAR306648 **Inspection Date** 10/28 **Time** 8:Fall 1500

Name of Certified Erosion Sediment Control Lead (CESCL) or qualified inspector if *less than one acre*
Print Name: STEVEN GOODRICH

Approximate rainfall amount since the last inspection (in inches): ≈ 1.5

Approximate rainfall amount in the last 24 hours (in inches): < 1"

Current Weather Clear [X] Cloudy [ ] Mist [ ] Rain [ ] Wind [ ] Fog [ ]

A. Type of inspection: Weekly [X] Post Storm Event [ ] Other [X] END WORK SHUT DOWN

B. Phase of Active Construction (*check all that apply*):

Pre Construction/installation of erosion/sediment controls	[ ]	Clearing/Demo/Grading	[ ]	Infrastructure/storm/roads	[ ]
Concrete pours	[ ]	Vertical Construction/buildings	[ ]	Utilities	[ ] PHASE 1C
Offsite improvements	[ ]	Site temporary stabilized	[X]	Final stabilization	[ ]

Winterize

C. Questions:

1. Were all areas of construction and discharge points inspected? Yes X No ___
2. Did you observe the presence of suspended sediment, turbidity, discoloration, or oil sheen Yes ___ No X
3. Was a water quality sample taken during inspection? (*refer to permit conditions S4 & S5*) Yes ___ No ___ - SEE WQMR
4. Was there a turbid discharge 250 NTU or greater, or Transparency 6 cm or less?* Yes ___ No ___
5. If yes to #4 was it reported to Ecology? Yes ___ No ___
6. Is pH sampling required? pH range required is 6.5 to 8.5. Yes ___ No ___

If answering yes to a discharge, describe the event. Include when, where, and why it happened; what action was taken, and when.

Discharge point from site seepage from Pond - clear no turbidity

Work in water see Water Monitor Forms submitted to Carol Sedor 2CY

*If answering yes to # 4 record NTU/Transparency with continual sampling daily until turbidity is 25 NTU or less/ transparency is 33 cm or greater.

Sampling Results: Date: ___

Parameter	Method (circle one)	Result			Other/Note
		NTU	cm	pH	
Turbidity	tube, meter, laboratory				
pH	Paper, kit, meter				

Construction Stormwater Site Inspection Form

D. Check the observed status of all items. Provide "Action Required "details and dates.

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
1 Clearing Limits	Before beginning land disturbing activities are all clearing limits, natural resource areas (streams, wetlands, buffers, trees) protected with barriers or similar BMPs? (high visibility recommended)	X		X			
2 Construction Access	Construction access is stabilized with quarry spalls or equivalent BMP to prevent sediment from being tracked onto roads?			X	special Jent 10.5 rod		
	Sediment tracked onto the road way was cleaned thoroughly at the end of the day or more frequent as necessary.			X			
3 Control Flow Rates	Are flow control measures installed to control stormwater volumes and velocity during construction and do they protect downstream properties and waterways from erosion?	X					
	If permanent infiltration ponds are used for flow control during construction, are they protected from siltation?			X			
4 Sediment Controls	All perimeter sediment controls (e.g. silt fence, wattles, compost socks, berms, etc.) installed, and maintained in accordance with the Stormwater Pollution Prevention Plan (SWPPP).	X			Needs maint.		Restore for wint
	Sediment control BMPs (sediment ponds, traps, filters etc.) have been constructed and functional as the first step of grading.	X					//
	Stormwater runoff from disturbed areas is directed to sediment removal BMP.	X					//
5 Stabilize Soils	Have exposed un-worked soils been stabilized with effective BMP to prevent erosion and sediment deposition?		X		Side slope Sta foot path		Resurface slope

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
5 Stabilize Soils Cont.	Are stockpiles stabilized from erosion, protected with sediment trapping measures and located away from drain inlet, waterways, and drainage channels?	X					
	Have soils been stabilized at the end of the shift, before a holiday or weekend if needed based on the weather forecast?						
6 Protect Slopes	Has stormwater and ground water been diverted away from slopes and disturbed areas with interceptor dikes, pipes and or swales?	X					
	Is off-site storm water managed separately from stormwater generated on the site?	X					
	Is excavated material placed on uphill side of trenches consistent with safety and space considerations?	X			Restore clean sedi		
	Have check dams been placed at regular intervals within constructed channels that are cut down a slope?	X					
7 Drain Inlets	Storm drain inlets made operable during construction are protected.						
	Are existing storm drains within the influence of the project protected?			X			
8 Stabilize Channel and Outlets	Have all on-site conveyance channels been designed, constructed and stabilized to prevent erosion from expected peak flows?	X					
	Is stabilization, including armoring material, adequate to prevent erosion of outlets, adjacent stream banks, slopes and downstream conveyance systems?	X			yes review afe		
9 Control Pollutants	Are waste materials and demolition debris handled and disposed of to prevent contamination of stormwater?	X					
	Has cover been provided for all chemicals, liquid products, petroleum products, and other material?	X					
	Has secondary containment been provided capable of containing 110% of the volume?	X					
	Were contaminated surfaces cleaned immediately after a spill incident?	+					
	Were BMPs used to prevent contamination of stormwater by a pH modifying sources?			X			

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
9 Cont.	Wheel wash wastewater is handled and disposed of properly.			X			
10 Control Dewatering	Concrete washout in designated areas. No washout or excess concrete on the ground.	X					
	Dewatering has been done to an approved source and in compliance with the SWPPP.	X			Been disabled		
	Were there any clean non turbid dewatering discharges?		X				
11 Maintain BMP	Are all temporary and permanent erosion and sediment control BMPs maintained to perform as intended?		X		Need end season improvement		
12 Manage the Project	Has the project been phased to the maximum degree practicable?	X					
	Has regular inspection, monitoring and maintenance been performed as required by the permit?	X					
	Has the SWPPP been updated, implemented and records maintained?	X					
13 Protect LID	Is all Bioretention and Rain Garden Facilities protected from sedimentation with appropriate BMPs?	X			No water		
	Is the Bioretention and Rain Garden protected against over compaction of construction equipment and foot traffic to retain its infiltration capabilities?			X			
	Permeable pavements are clean and free of sediment and sediment laden-water runoff. Muddy construction equipment has not been on the base material or pavement.			X			
	Have soiled permeable pavements been cleaned of sediments and pass infiltration test as required by stormwater manual methodology?			X			
	Heavy equipment has been kept off existing soils under LID facilities to retain infiltration rate.			X			

E. Check all areas that have been inspected. ✓

All in place BMPs [X] All disturbed soils [X] All concrete wash out area [X] All material storage areas [X]
All discharge locations [X] All equipment storage areas [X] All construction entrances/exits [ ]

Construction Stormwater Site Inspection Form

F. Elements checked "Action Required" (section D) describe corrective action to be taken. List the element number; be specific on location and work needed. Document, initial, and date when the corrective action has been completed and inspected.

ALL EXPOSED DOLE NOW BEING EXPOSED

Element #	Description and Location	Action Required	Completion Date	Initials
1	Restore all surface BMP	(STRAW @ net)	expose now 11/6/20	[illegible]
		FILL GABS		
2	Dewatering remove so sediment	need to be remov	11/6/20	[illegible]
3/		SIDE SLOPE GRAVEL Cover	11/6/20	[illegible]
			SMIC	
A	CLOSE Down continues	Monitor as removal	underway	[illegible]
	AND Review OF Actions	occurs on Fullsite	11/6/20	
	WILL BE Required			
	Constantly			

Attach additional page if needed

Sign the following certification:

"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief"

Inspected by: (print) STEVEN P Goodrich (Signature) [signature] Date: 11-29-20

Title/Qualification of Inspector: CECSEL

SITE SHUT DOWN AND WINTERIZING UNDERWAY 11/6/25 SPG

DITCH CLEAN WITH GN TO BALANCE 11/6/20 SPG

Construction Stormwater Site Inspection Form

Project Name Electron intake **Permit #** WAR306648 **Inspection Date** 10/28 **Time** 8:40 [illegible]

Name of Certified Erosion Sediment Control Lead (CESCL) or qualified inspector if *less than one acre*

Print Name: STEVEN GOODRICH

Approximate rainfall amount since the last inspection (in inches): _____

Approximate rainfall amount in the last 24 hours (in inches): <1"

Current Weather Clear [X] Cloudy [ ] Mist [ ] Rain [ ] Wind [ ] Fog [ ]

A. Type of inspection: Weekly [X] Post Storm Event [ ] Other [X] END WORK SHUT DN

B. Phase of Active Construction (*check all that apply*):

Pre Construction/installation of erosion/sediment controls	[ ]	Clearing/Demo/Grading	[ ]	Infrastructure/storm/roads	[ ]
Concrete pours	[ ]	Vertical Construction/buildings	[ ]	Utilities	[ ] PHASE 1C
Offsite improvements	[ ]	Site temporary stabilized	[ ]	Final stabilization	[ ]

C. Questions:

1. Were all areas of construction and discharge points inspected? Yes X No ___
2. Did you observe the presence of suspended sediment, turbidity, discoloration, or oil sheen Yes ___ No X
3. Was a water quality sample taken during inspection? (*refer to permit conditions S4 & S5*) Yes ___ No ___ — SEE WQMR
4. Was there a turbid discharge 250 NTU or greater, or Transparency 6 cm or less?* Yes ___ No ___
5. If yes to #4 was it reported to Ecology? Yes ___ No ___
6. Is pH sampling required? pH range required is 6.5 to 8.5. Yes ___ No ___

If answering yes to a discharge, describe the event. Include when, where, and why it happened; what action was taken, and when.

Discharge point from site seepage from Pond – clear no turbidity

Work in water see Water Monitor Forms submitted to Carol Sedor 2CY

*If answering yes to # 4 record NTU/Transparency with continual sampling daily until turbidity is 25 NTU or less/ transparency is 33 cm or greater.

Sampling Results: Date: _____

Parameter	Method (circle one)	Result			Other/Note
		NTU	cm	pH	
Turbidity	tube, meter, laboratory				
pH	Paper, kit, meter				

Construction Stormwater Site Inspection Form

D. Check the observed status of all items. Provide "Action Required "details and dates.

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
1 Clearing Limits	Before beginning land disturbing activities are all clearing limits, natural resource areas (streams, wetlands, buffers, trees) protected with barriers or similar BMPs? (high visibility recommended)	X		X			
2 Construction Access	Construction access is stabilized with quarry spalls or equivalent BMP to prevent sediment from being tracked onto roads?			X	special dent 10.5 rod		
	Sediment tracked onto the road way was cleaned thoroughly at the end of the day or more frequent as necessary.			X			
3 Control Flow Rates	Are flow control measures installed to control stormwater volumes and velocity during construction and do they protect downstream properties and waterways from erosion?	X					
	If permanent infiltration ponds are used for flow control during construction, are they protected from siltation?			X			
4 Sediment Controls	All perimeter sediment controls (e.g. silt fence, wattles, compost socks, berms, etc.) installed, and maintained in accordance with the Stormwater Pollution Prevention Plan (SWPPP).	X			Needs maint.		Restore for w.inp
	Sediment control BMPs (sediment ponds, traps, filters etc.) have been constructed and functional as the first step of grading.	X					//
	Stormwater runoff from disturbed areas is directed to sediment removal BMP.	X					//
5 Stabilize Soils	Have exposed un-worked soils been stabilized with effective BMP to prevent erosion and sediment deposition?		X		Side slope 5a foot path		Resurface slope

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
5 Stabilize Soils Cont.	Are stockpiles stabilized from erosion, protected with sediment trapping measures and located away from drain inlet, waterways, and drainage channels?	X					
	Have soils been stabilized at the end of the shift, before a holiday or weekend if needed based on the weather forecast?						
6 Protect Slopes	Has stormwater and ground water been diverted away from slopes and disturbed areas with interceptor dikes, pipes and or swales?	X					
	Is off-site storm water managed separately from stormwater generated on the site?	X					
	Is excavated material placed on uphill side of trenches consistent with safety and space considerations?	X			Restore clean sedi		
	Have check dams been placed at regular intervals within constructed channels that are cut down a slope?	X					
7 Drain Inlets	Storm drain inlets made operable during construction are protected.						
	Are existing storm drains within the influence of the project protected?			X			
8 Stabilize Channel and Outlets	Have all on-site conveyance channels been designed, constructed and stabilized to prevent erosion from expected peak flows?	X					
	Is stabilization, including armoring material, adequate to prevent erosion of outlets, adjacent stream banks, slopes and downstream conveyance systems?	X			yes review afo		
9 Control Pollutants	Are waste materials and demolition debris handled and disposed of to prevent contamination of stormwater?	X					
	Has cover been provided for all chemicals, liquid products, petroleum products, and other material?	X					
	Has secondary containment been provided capable of containing 110% of the volume?	X					
	Were contaminated surfaces cleaned immediately after a spill incident?	X					
	Were BMPs used to prevent contamination of stormwater by a pH modifying sources?			X			

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
9 Cont.	Wheel wash wastewater is handled and disposed of properly.			X			
10 Control Dewatering	Concrete washout in designated areas. No washout or excess concrete on the ground.	X					
	Dewatering has been done to an approved source and in compliance with the SWPPP.	X			Been disabled		
	Were there any clean non turbid dewatering discharges?		X				
11 Maintain BMP	Are all temporary and permanent erosion and sediment control BMPs maintained to perform as intended?		X		Need end season improvement		
12 Manage the Project	Has the project been phased to the maximum degree practicable?	X					
	Has regular inspection, monitoring and maintenance been performed as required by the permit?	X					
	Has the SWPPP been updated, implemented and records maintained?	X					
13 Protect LID	Is all Bioretention and Rain Garden Facilities protected from sedimentation with appropriate BMPs?	X			No water		
	Is the Bioretention and Rain Garden protected against over compaction of construction equipment and foot traffic to retain its infiltration capabilities?			X			
	Permeable pavements are clean and free of sediment and sediment laden-water runoff. Muddy construction equipment has not been on the base material or pavement.			X			
	Have soiled permeable pavements been cleaned of sediments and pass infiltration test as required by stormwater manual methodology?			X			
	Heavy equipment has been kept off existing soils under LID facilities to retain infiltration rate.			X			

E. Check all areas that have been inspected. ✔

All in place BMPs [X] All disturbed soils [X] All concrete wash out area [X] All material storage areas [X]
All discharge locations [X] All equipment storage areas [X] All construction entrances/exits [ ]

Construction Stormwater Site Inspection Form

F. Elements checked "Action Required" (section D) describe corrective action to be taken. List the element number; be specific on location and work needed. Document, initial, and date when the corrective action has been completed and inspected.

Element #	Description and Location	Action Required	Completion Date	Initials
1	- Restore all surface BMP	(Straw @ not)		
		Fill Gaps		
2	Dewatering remove So Sed.	not need to be remov		
3/		SIDE SLOPE GRAVEL Cove		
4	Close Down continues	Monitor as removal		
	And Review of Actions	occurs on Fullsite		
	will Be Required			
	Constantly			

Attach additional page if needed

Sign the following certification:

"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief"

Inspected by: (print) STEVEN P Goodrich (Signature) _____ Date: _____

Title/Qualification of Inspector: CEC SEL

Construction Stormwater Site Inspection Form

roject Name Election Permit # WAR306618 Inspection Date 10/22/2020 Time 10:00am

Name of Certified Erosion Sediment Control Lead (CESCL) or qualified inspector if *less than one acre*
Print Name: Corey Klepe

Approximate rainfall amount since the last inspection (in inches): 4"

Approximate rainfall amount in the last 24 hours (in inches): Ø

Current Weather Clear [ ] Cloudy [X] Mist [ ] Rain [ ] Wind [ ] Fog [ ]

A. Type of inspection: Weekly [X] Post Storm Event [ ] Other [ ]

B. Phase of Active Construction (*check all that apply*):

Pre Construction/installation of erosion/sediment controls	[ ]	Clearing/Demo/Grading	[ ]	Infrastructure/storm/roads	[ ]
X Concrete pours	[ ]	Vertical Construction/buildings	[ ]	Utilities	[ ]
Offsite improvements	[X]	Site temporary stabilized	[ ]	Final stabilization	[ ]

C. Questions:

1. Were all areas of construction and discharge points inspected? Yes X No ___
2. Did you observe the presence of suspended sediment, turbidity, discoloration, or oil sheen Yes ___ No X
3. Was a water quality sample taken during inspection? (*refer to permit conditions S4 & S5*) Yes X No ___
4. Was there a turbid discharge 250 NTU or greater, or Transparency 6 cm or less?* Yes ___ No X
5. If yes to #4 was it reported to Ecology? Yes ___ No ___
6. Is pH sampling required? pH range required is 6.5 to 8.5. Yes ___ No X

If answering yes to a discharge, describe the event. Include when, where, and why it happened; what action was taken, and when.

*If answering yes to # 4 record NTU/Transparency with continual sampling daily until turbidity is 25 NTU or less/ transparency is 33 cm or greater.

Sampling Results: Date: 10/22/2020

Parameter	Method (circle one)	Result			Other/Note
		NTU	cm	pH	
Turbidity	tube, meter, laboratory	7.0			Compliance Background = 7.1
pH	Paper, kit, meter				

EH-USA001250

ED_005624_00000103-00017

Construction Stormwater Site Inspection Form

Check the observed status of all items. Provide "Action Required "details and dates.

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
1 Clearing Limits	Before beginning land disturbing activities are all clearing limits, natural resource areas (streams, wetlands, buffers, trees) protected with barriers or similar BMPs? (high visibility recommended)	X					
2 Construction Access	Construction access is stabilized with quarry spalls or equivalent BMP to prevent sediment from being tracked onto roads?			X			
	Sediment tracked onto the road way was cleaned thoroughly at the end of the day or more frequent as necessary.			X			
3 Control Flow Rates	Are flow control measures installed to control stormwater volumes and velocity during construction and do they protect downstream properties and waterways from erosion?	X					
	If permanent infiltration ponds are used for flow control during construction, are they protected from siltation?			X			
4 Sediment Controls	All perimeter sediment controls (e.g. silt fence, wattles, compost socks, berms, etc.) installed, and maintained in accordance with the Stormwater Pollution Prevention Plan (SWPPP).		X		grade road & Berm edge away from river		see F
	Sediment control BMPs (sediment ponds, traps, filters etc.) have been constructed and functional as the first step of grading.	X					
	Stormwater runoff from disturbed areas is directed to sediment removal BMP.	X					
5 Stabilize Soils	Have exposed un-worked soils been stabilized with effective BMP to prevent erosion and sediment deposition?	X			mulch		see F

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
5 Stabilize Soils Cont.	Are stockpiles stabilized from erosion, protected with sediment trapping measures and located away from drain inlet, waterways, and drainage channels?	X					
	Have soils been stabilized at the end of the shift, before a holiday or weekend if needed based on the weather forecast?	X					
6 Protect Slopes	Has stormwater and ground water been diverted away from slopes and disturbed areas with interceptor dikes, pipes and or swales?			X			
	Is off-site storm water managed separately from stormwater generated on the site?			X			
	Is excavated material placed on uphill side of trenches consistent with safety and space considerations?	X					
	Have check dams been placed at regular intervals within constructed channels that are cut down a slope?		X		Maintain check dams		See F
7 Drain Inlets	Storm drain inlets made operable during construction are protected.	X					
	Are existing storm drains within the influence of the project protected?	X					
8 Stabilize Channel and Outlets	Have all on-site conveyance channels been designed, constructed and stabilized to prevent erosion from expected peak flows?	X					See F
	Is stabilization, including armoring material, adequate to prevent erosion of outlets, adjacent stream banks, slopes and downstream conveyance systems?	X					
9 Control Pollutants	Are waste materials and demolition debris handled and disposed of to prevent contamination of stormwater?	X					See F
	Has cover been provided for all chemicals, liquid products, petroleum products, and other material?	X					
	Has secondary containment been provided capable of containing 110% of the volume?	X					See F
	Were contaminated surfaces cleaned immediately after a spill incident?	X					See F
	Were BMPs used to prevent contamination of stormwater by a pH modifying sources?	X					

EH-USA001252

ED_005624_00000103-00019

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
9 Cont.	Wheel wash wastewater is handled and disposed of properly.			X			
10 Control Dewatering	Concrete washout in designated areas. No washout or excess concrete on the ground.	X					
	Dewatering has been done to an approved source and in compliance with the SWPPP.	X					
	Were there any clean non turbid dewatering discharges?	X					
11 Maintain BMP	Are all temporary and permanent erosion and sediment control BMPs maintained to perform as intended?	X					
12 Manage the Project	Has the project been phased to the maximum degree practicable?	X					
	Has regular inspection, monitoring and maintenance been performed as required by the permit?	X					
	Has the SWPPP been updated, implemented and records maintained?	X					
13 Protect LID	Is all Bioretention and Rain Garden Facilities protected from sedimentation with appropriate BMPs?	X					
	Is the Bioretention and Rain Garden protected against over compaction of construction equipment and foot traffic to retain its infiltration capabilities?	X					
	Permeable pavements are clean and free of sediment and sediment laden-water runoff. Muddy construction equipment has not been on the base material or pavement.			X			
	Have soiled permeable pavements been cleaned of sediments and pass infiltration test as required by stormwater manual methodology?			X			
	Heavy equipment has been kept off existing soils under LID facilities to retain infiltration rate.	X					

E. Check all areas that have been inspected. ✔

All in place BMPs ☑ All disturbed soils ☑ All concrete wash out area ☑ All material storage areas ☑
All discharge locations ☑ All equipment storage areas ☑ All construction entrances/exits ☑

Construction Stormwater Site Inspection Form

F. Elements checked "Action Required" (section D) describe corrective action to be taken. List the element number; be specific on location and work needed. Document, initial, and date when the corrective action has been completed and inspected.

Element #	Description and Location	Action Required	Completion Date	Initials
4	Road on site, level needs graded stone	-added gravel & graded road also	10/19	CK
		created rock berm on edge		
5	exposed soil on hillside slope	mulched soil	10/19	CK
	by stairs			
6	check dams throughout site	rebuilt as needed	10/19	CK
8	Conveyance channel not	filled in channel, part of	10/22	CK
	needed, no water discharge	project close out		

Attach additional page if needed

Sign the following certification:

"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief"

Inspected by: (print) Cory Klepp (Signature) [signature] Date: 10/22/2020

Title/Qualification of Inspector: CESCL

per Steve Goodrich direction

Element #	Action	Completed	initials
8	emptied secondary containment from rain water	10/20	CK
9	Active site removal of waste materials & cover for petrol	remove materials not needed on site	CK
9	small grease spill on road, from forklift	Cleaned immediately w/ BMP SP1 10/17	CK

Construction Stormwater Site Inspection Form

Project Name Electron **Permit #** WAR 306645 **Inspection Date** 10/8/2020 **Time** 11:00 Am

Name of Certified Erosion Sediment Control Lead (CESCL) or qualified inspector if *less than one acre*
Print Name: Corey Klepke

Approximate rainfall amount since the last inspection (in inches): Ø

Approximate rainfall amount in the last 24 hours (in inches): Ø

Current Weather Clear [ ] Cloudy [X] Mist [ ] Rain [ ] Wind [ ] Fog [ ]

A. Type of inspection: Weekly [X] Post Storm Event [ ] Other [ ]

B. Phase of Active Construction (*check all that apply*):

Pre Construction/installation of erosion/sediment controls	[ ]	Clearing/Demo/Grading	[ ]	Infrastructure/storm/roads	[ ]
X Concrete pours	[ ]	Vertical Construction/buildings	[ ]	Utilities	[ ]
Offsite improvements	[ ]	Site temporary stabilized	[ ]	Final stabilization	[ ]

C. Questions:

1. Were all areas of construction and discharge points inspected? Yes X No ___
2. Did you observe the presence of suspended sediment, turbidity, discoloration, or oil sheen Yes ___ No X
3. Was a water quality sample taken during inspection? (*refer to permit conditions S4 & S5*) Yes X No ___
4. Was there a turbid discharge 250 NTU or greater, or Transparency 6 cm or less?* Yes ___ No X
5. If yes to #4 was it reported to Ecology? Yes ___ No X
6. Is pH sampling required? pH range required is 6.5 to 8.5. Yes X No ~~X~~

If answering yes to a discharge, describe the event. Include when, where, and why it happened; what action was taken, and when.

*If answering yes to # 4 record NTU/Transparency with continual sampling daily until turbidity is 25 NTU or less/ transparency is 33 cm or greater.

Sampling Results: Date: 10/8/2020

Parameter	Method (circle one)	Result			Other/Note
		NTU	cm	pH	
Turbidity	tube, meter, laboratory				
pH	Paper, kit, meter			7.80	Background,

EH-USA001255

ED_005624_00000103-00022

Construction Stormwater Site Inspection Form

D. Check the observed status of all items. Provide "Action Required "details and dates.

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
1 Clearing Limits	Before beginning land disturbing activities are all clearing limits, natural resource areas (streams, wetlands, buffers, trees) protected with barriers or similar BMPs? (high visibility recommended)	Y					
2 Construction Access	Construction access is stabilized with quarry spalls or equivalent BMP to prevent sediment from being tracked onto roads?			X			
	Sediment tracked onto the road way was cleaned thoroughly at the end of the day or more frequent as necessary.			X			
3 Control Flow Rates	Are flow control measures installed to control stormwater volumes and velocity during construction and do they protect downstream properties and waterways from erosion?	X					
	If permanent infiltration ponds are used for flow control during construction, are they protected from siltation?			X			
4 Sediment Controls	All perimeter sediment controls (e.g. silt fence, wattles, compost socks, berms, etc.) installed, and maintained in accordance with the Stormwater Pollution Prevention Plan (SWPPP).	X					
	Sediment control BMPs (sediment ponds, traps, filters etc.) have been constructed and functional as the first step of grading.	X					
	Stormwater runoff from disturbed areas is directed to sediment removal BMP.	X					
5 Stabilize Soils	Have exposed un-worked soils been stabilized with effective BMP to prevent erosion and sediment deposition?	X					

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
5 Stabilize Soils Cont.	Are stockpiles stabilized from erosion, protected with sediment trapping measures and located away from drain inlet, waterways, and drainage channels?	X					
	Have soils been stabilized at the end of the shift, before a holiday or weekend if needed based on the weather forecast?	X					
6 Protect Slopes	Has stormwater and ground water been diverted away from slopes and disturbed areas with interceptor dikes, pipes and or swales?			X			
	Is off-site storm water managed separately from stormwater generated on the site?			X			
	Is excavated material placed on uphill side of trenches consistent with safety and space considerations?	X					
	Have check dams been placed at regular intervals within constructed channels that are cut down a slope?	X					
7 Drain Inlets	Storm drain inlets made operable during construction are protected.	X					
	Are existing storm drains within the influence of the project protected?	X					
8 Stabilize Channel and Outlets	Have all on-site conveyance channels been designed, constructed and stabilized to prevent erosion from expected peak flows?	X					
	Is stabilization, including armoring material, adequate to prevent erosion of outlets, adjacent stream banks, slopes and downstream conveyance systems?	X					
9 Control Pollutants	Are waste materials and demolition debris handled and disposed of to prevent contamination of stormwater?	X					
	Has cover been provided for all chemicals, liquid products, petroleum products, and other material?		X		requires cover		see F
	Has secondary containment been provided capable of containing 110% of the volume?		X		need secondary containment		see F
	Were contaminated surfaces cleaned immediately after a spill incident?			X			
	Were BMPs used to prevent contamination of stormwater by a pH modifying sources?	X					

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
9 Cont.	Wheel wash wastewater is handled and disposed of properly.			X			
10 Control Dewatering	Concrete washout in designated areas. No washout or excess concrete on the ground.	X					
	Dewatering has been done to an approved source and in compliance with the SWPPP.	X					
	Were there any clean non turbid dewatering discharges?	X					
11 Maintain BMP	Are all temporary and permanent erosion and sediment control BMPs maintained to perform as intended?	X					
12 Manage the Project	Has the project been phased to the maximum degree practicable?	X					
	Has regular inspection, monitoring and maintenance been performed as required by the permit?	X					
	Has the SWPPP been updated, implemented and records maintained?		X				See F
13 Protect LID	Is all Bioretention and Rain Garden Facilities protected from sedimentation with appropriate BMPs?	X					
	Is the Bioretention and Rain Garden protected against over compaction of construction equipment and foot traffic to retain its infiltration capabilities?	X					
	Permeable pavements are clean and free of sediment and sediment laden-water runoff. Muddy construction equipment has not been on the base material or pavement.			X			
	Have soiled permeable pavements been cleaned of sediments and pass infiltration test as required by stormwater manual methodology?			X			
	Heavy equipment has been kept off existing soils under LID facilities to retain infiltration rate.	X					

E. Check all areas that have been inspected. ✓

All in place BMPs [✓] All disturbed soils [✓] All concrete wash out area [✓] All material storage areas [✓]
All discharge locations [✓] All equipment storage areas [✓] All construction entrances/exits [✓]

Construction Stormwater Site Inspection Form

F. Elements checked "Action Required" (section D) describe corrective action to be taken. List the element number; be specific on location and work needed. Document, initial, and date when the corrective action has been completed and inspected.

Element #	Description and Location	Action Required	Completion Date	Initials
a	Some of the fuel &	Provide cover for these	10/8/2020	CK
	diesel containers did not			
	have cover.			
a	Secondary containment for	Built secondary	10/8/2020	CK
	two generators needed	containment for these		
12	SWPPP	Needs update, spoke		CK
		w/ Steve Goodrich to		
		update map for BMPS		

Attach additional page if needed

Sign the following certification:

"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief"

Inspected by: (print) Corey Klepe (Signature) [signature] Date: 10/8/2020

Title/Qualification of Inspector: CESCL

Under Direction from Steve Goodrich

Construction Stormwater Site Inspection Form

Project Name Electron Permit # WAR306648 Inspection Date 10/15/2020 Time 4:00pm

Name of Certified Erosion Sediment Control Lead (CESCL) or qualified inspector if *less than one acre*
Print Name: Corey Klepke

Approximate rainfall amount since the last inspection (in inches): Ø

Approximate rainfall amount in the last 24 hours (in inches): Ø

Current Weather Clear [X] Cloudy [ ] Mist [ ] Rain [ ] Wind [ ] Fog [ ]

A. Type of inspection: Weekly [X] Post Storm Event [ ] Other [ ]

B. Phase of Active Construction (*check all that apply*):

Pre Construction/installation of erosion/sediment controls	[ ]	Clearing/Demo/Grading	[ ]	Infrastructure/storm/roads	[ ]
X Concrete pours	[ ]	Vertical Construction/buildings	[ ]	Utilities	[ ]
Offsite improvements	[ ]	Site temporary stabilized	[ ]	Final stabilization	[ ]

C. Questions:

1. Were all areas of construction and discharge points inspected? Yes X No ___
2. Did you observe the presence of suspended sediment, turbidity, discoloration, or oil sheen Yes X No ___
3. Was a water quality sample taken during inspection? (*refer to permit conditions S4 & S5*) Yes X No ___
4. Was there a turbid discharge 250 NTU or greater, or Transparency 6 cm or less?* Yes ___ No X
5. If yes to #4 was it reported to Ecology? Yes ___ No ___
6. Is pH sampling required? pH range required is 6.5 to 8.5. Yes X No ___

If answering yes to a discharge, describe the event. Include when, where, and why it happened; what action was taken, and when.

Excavation Downstream of footing to stabilize road access to site, caused turbid water in conveyance channel. Excavation work was paused until water cleared up.

*If answering yes to # 4 record NTU/Transparency with continual sampling daily until turbidity is 25 NTU or less/ transparency is 33 cm or greater.

Sampling Results: Date: 10/15/2020

Parameter	Method (circle one)	Result			Other/Note
		NTU	cm	pH	
Turbidity	tube, meter, laboratory	22.0			Background was 11.0; over 10%
pH	Paper, kit, meter				

Construction Stormwater Site Inspection Form

D. Check the observed status of all items. Provide "Action Required "details and dates.

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
1 Clearing Limits	Before beginning land disturbing activities are all clearing limits, natural resource areas (streams, wetlands, buffers, trees) protected with barriers or similar BMPs? (high visibility recommended)	X					
2 Construction Access	Construction access is stabilized with quarry spalls or equivalent BMP to prevent sediment from being tracked onto roads?			X			
	Sediment tracked onto the road way was cleaned thoroughly at the end of the day or more frequent as necessary.			X			
3 Control Flow Rates	Are flow control measures installed to control stormwater volumes and velocity during construction and do they protect downstream properties and waterways from erosion?	X					
	If permanent infiltration ponds are used for flow control during construction, are they protected from siltation?			X			
4 Sediment Controls	All perimeter sediment controls (e.g. silt fence, wattles, compost socks, berms, etc.) installed, and maintained in accordance with the Stormwater Pollution Prevention Plan (SWPPP).	X					
	Sediment control BMPs (sediment ponds, traps, filters etc.) have been constructed and functional as the first step of grading.	X					
	Stormwater runoff from disturbed areas is directed to sediment removal BMP.	X					
5 Stabilize Soils	Have exposed un-worked soils been stabilized with effective BMP to prevent erosion and sediment deposition?	X					

EH-USA001261

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Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
5 Stabilize Soils Cont.	Are stockpiles stabilized from erosion, protected with sediment trapping measures and located away from drain inlet, waterways, and drainage channels?	X					
	Have soils been stabilized at the end of the shift, before a holiday or weekend if needed based on the weather forecast?	X					
6 Protect Slopes	Has stormwater and ground water been diverted away from slopes and disturbed areas with interceptor dikes, pipes and or swales?			X			
	Is off-site storm water managed separately from stormwater generated on the site?			X			
	Is excavated material placed on uphill side of trenches consistent with safety and space considerations?	X					
	Have check dams been placed at regular intervals within constructed channels that are cut down a slope?	X			check dams need maintenance		see F
7 Drain Inlets	Storm drain inlets made operable during construction are protected.	X					
	Are existing storm drains within the influence of the project protected?	X					
8 Stabilize Channel and Outlets	Have all on-site conveyance channels been designed, constructed and stabilized to prevent erosion from expected peak flows?	X					
	Is stabilization, including armoring material, adequate to prevent erosion of outlets, adjacent stream banks, slopes and downstream conveyance systems?	X					
9 Control Pollutants	Are waste materials and demolition debris handled and disposed of to prevent contamination of stormwater?	X			Need to document log inspections		see F
	Has cover been provided for all chemicals, liquid products, petroleum products, and other material?	X					
	Has secondary containment been provided capable of containing 110% of the volume?	X					
	Were contaminated surfaces cleaned immediately after a spill incident?	X					
	Were BMPs used to prevent contamination of stormwater by a pH modifying sources?	X					

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
9 Cont.	Wheel wash wastewater is handled and disposed of properly.			X			
10 Control Dewatering	Concrete washout in designated areas. No washout or excess concrete on the ground.	X					
	Dewatering has been done to an approved source and in compliance with the SWPPP.	X					
	Were there any clean non turbid dewatering discharges?	X					
11 Maintain BMP	Are all temporary and permanent erosion and sediment control BMPs maintained to perform as intended?	X					
12 Manage the Project	Has the project been phased to the maximum degree practicable?	XX					
	Has regular inspection, monitoring and maintenance been performed as required by the permit?		X		need to add documentation		see F
	Has the SWPPP been updated, implemented and records maintained?	X					
13 Protect LID	Is all Bioretention and Rain Garden Facilities protected from sedimentation with appropriate BMPs?	X					
	Is the Bioretention and Rain Garden protected against over compaction of construction equipment and foot traffic to retain its infiltration capabilities?	X					
	Permeable pavements are clean and free of sediment and sediment laden-water runoff. Muddy construction equipment has not been on the base material or pavement.			X			
	Have soiled permeable pavements been cleaned of sediments and pass infiltration test as required by stormwater manual methodology?			X			
	Heavy equipment has been kept off existing soils under LID facilities to retain infiltration rate.	X					

E. Check all areas that have been inspected. ✓

All in place BMPs [X] All disturbed soils [X] All concrete wash out area [✓] All material storage areas [✓]
All discharge locations [✓] All equipment storage areas [✓] All construction entrances/exits [✓]

Construction Stormwater Site Inspection Form

F. Elements checked "Action Required" (section D) describe corrective action to be taken. List the element number; be specific on location and work needed. Document, initial, and date when the corrective action has been completed and inspected.

Element #	Description and Location	Action Required	Completion Date	Initials
6	Check dams in ditch &	maintain check dams	10/16	
	Channel need maintenance			
9/12	Vehicle Inspections for	needs to be documented	10/15	ck
	in river work	was being done, but not		
		logged		

Attach additional page if needed

Sign the following certification:

"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief"

Inspected by: (print) Corey Kepple (Signature) [signature] Date: 10/15/2020

Title/Qualification of Inspector: CESCL

under Steve Goodrich direction

SPG

Need to add reprint of updated SWPPP Report to drawing

Construction Stormwater Site Inspection Form

Project Name Electron Permit # WAR306648 Inspection Date 9:30 Time 10/1/2020

Name of Certified Erosion Sediment Control Lead (CESCL) or qualified inspector if *less than one acre*
Print Name: Corey Klepper

Approximate rainfall amount since the last inspection (in inches): Ø

Approximate rainfall amount in the last 24 hours (in inches): Ø

Current Weather Clear ☑ Cloudy ☐ Mist ☐ Rain ☐ Wind ☐ Fog ☐

A. Type of inspection: Weekly ☑ Post Storm Event ☐ Other ☐

B. Phase of Active Construction (*check all that apply*):

Pre Construction/installation of erosion/sediment controls	☐	Clearing/Demo/Grading	☐	Infrastructure/storm/roads	☐
X Concrete pours	☐	Vertical Construction/buildings	☐	Utilities	☐
Offsite improvements	☐	Site temporary stabilized	☐	Final stabilization	☐

C. Questions:

1. Were all areas of construction and discharge points inspected? Yes X No ___
2. Did you observe the presence of suspended sediment, turbidity, discoloration, or oil sheen Yes X No ___
3. Was a water quality sample taken during inspection? (*refer to permit conditions S4 & S5*) Yes X No ___
4. Was there a turbid discharge 250 NTU or greater, or Transparency 6 cm or less?* Yes ___ No X
5. If yes to #4 was it reported to Ecology? Yes ___ No ___
6. Is pH sampling required? pH range required is 6.5 to 8.5. Yes X No ___

If answering yes to a discharge, describe the event. Include when, where, and why it happened; what action was taken, and when.

*If answering yes to # 4 record NTU/Transparency with continual sampling daily until turbidity is 25 NTU or less/ transparency is 33 cm or greater.

Sampling Results: Date: 10/1/2020

Parameter	Method (circle one)	Result			Other/Note
		NTU	cm	pH	
Turbidity	tube, meter, laboratory	55			Background
pH	Paper, kit, meter	8.15			Background / concrete pour not in contact w/ water.

EH-USA001265

ED_005624_00000103-00032

Construction Stormwater Site Inspection Form

D. Check the observed status of all items. Provide "Action Required "details and dates.

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
1 Clearing Limits	Before beginning land disturbing activities are all clearing limits, natural resource areas (streams, wetlands, buffers, trees) protected with barriers or similar BMPs? (high visibility recommended)	X					
2 Construction Access	Construction access is stabilized with quarry spalls or equivalent BMP to prevent sediment from being tracked onto roads?			X			
	Sediment tracked onto the road way was cleaned thoroughly at the end of the day or more frequent as necessary.			X			
3 Control Flow Rates	Are flow control measures installed to control stormwater volumes and velocity during construction and do they protect downstream properties and waterways from erosion?	X					
	If permanent infiltration ponds are used for flow control during construction, are they protected from siltation?			X			
4 Sediment Controls	All perimeter sediment controls (e.g. silt fence, wattles, compost socks, berms, etc.) installed, and maintained in accordance with the Stormwater Pollution Prevention Plan (SWPPP).	X					
	Sediment control BMPs (sediment ponds, traps, filters etc.) have been constructed and functional as the first step of grading.	X					
	Stormwater runoff from disturbed areas is directed to sediment removal BMP.	X					
5 Stabilize Soils	Have exposed un-worked soils been stabilized with effective BMP to prevent erosion and sediment deposition?	X					

EH-USA001266

ED_005624_00000103-00033

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
5 Stabilize Soils Cont.	Are stockpiles stabilized from erosion, protected with sediment trapping measures and located away from drain inlet, waterways, and drainage channels?	X					
	Have soils been stabilized at the end of the shift, before a holiday or weekend if needed based on the weather forecast?	X					
6 Protect Slopes	Has stormwater and ground water been diverted away from slopes and disturbed areas with interceptor dikes, pipes and or swales?			X			
	Is off-site storm water managed separately from stormwater generated on the site?			X			
	Is excavated material placed on uphill side of trenches consistent with safety and space considerations?	X					
	Have check dams been placed at regular intervals within constructed channels that are cut down a slope?	X					
7 Drain Inlets	Storm drain inlets made operable during construction are protected.	X					
	Are existing storm drains within the influence of the project protected?	X					
8 Stabilize Channel and Outlets	Have all on-site conveyance channels been designed, constructed and stabilized to prevent erosion from expected peak flows?	X			outlet protection modified		See F
	Is stabilization, including armoring material, adequate to prevent erosion of outlets, adjacent stream banks, slopes and downstream conveyance systems?	X					
9 Control Pollutants	Are waste materials and demolition debris handled and disposed of to prevent contamination of stormwater?	X					
	Has cover been provided for all chemicals, liquid products, petroleum products, and other material?	X					
	Has secondary containment been provided capable of containing 110% of the volume?	X					
	Were contaminated surfaces cleaned immediately after a spill incident?	X			Fish oil spill cleaned up		Chem spill See F
	Were BMPs used to prevent contamination of stormwater by a pH modifying sources?	X					See F

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
9 Cont.	Wheel wash wastewater is handled and disposed of properly.			X			
10 Control Dewatering	Concrete washout in designated areas. No washout or excess concrete on the ground.	X					
	Dewatering has been done to an approved source and in compliance with the SWPPP.	X			modified see F		
	Were there any clean non turbid dewatering discharges?	X					
11 Maintain BMP	Are all temporary and permanent erosion and sediment control BMPs maintained to perform as intended?	X					
12 Manage the Project	Has the project been phased to the maximum degree practicable?	X					
	Has regular inspection, monitoring and maintenance been performed as required by the permit?	X					
	Has the SWPPP been updated, implemented and records maintained?		X				update see F changes
13 Protect LID	Is all Bioretention and Rain Garden Facilities protected from sedimentation with appropriate BMPs?	X					
	Is the Bioretention and Rain Garden protected against over compaction of construction equipment and foot traffic to retain its infiltration capabilities?	X					
	Permeable pavements are clean and free of sediment and sediment laden-water runoff. Muddy construction equipment has not been on the base material or pavement.			X			
	Have soiled permeable pavements been cleaned of sediments and pass infiltration test as required by stormwater manual methodology?			X			
	Heavy equipment has been kept off existing soils under LID facilities to retain infiltration rate.	X					

E. Check all areas that have been inspected. ✓

All in place BMPs ☑ All disturbed soils ☑ All concrete wash out area ☑ All material storage areas ☑
All discharge locations ☑ All equipment storage areas ☑ All construction entrances/exits ☑

Construction Stormwater Site Inspection Form

F. Elements checked "Action Required" (section D) describe corrective action to be taken. List the element number; be specific on location and work needed. Document, initial, and date when the corrective action has been completed and inspected.

Element #	Description and Location	Action Required	Completion Date	Initials
8	Pump discharge into channel	Changed outlet	9/25/2020	K
	installed manhole w/ steel	to better protect		
	plate as outlet protection	ditch w/ concrete		
	for discharge	manhole BMP C209		
9	RJ side on Up stream	immediate spill response	9/25/2020	CK
	access rd. Hydraulic fish	happened using spill response		
	oil spill approx 1.5 gallons	procedure BMP SP1		
10	hoses into infiltration forest	use lay down hose w/	9/25/2020	CK
		sprinkler holes to distribute		
		water for infiltration		

Attach additional page if needed BMP SH1

Sign the following certification:

"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief"

Inspected by: (print) Corey Klepe (Signature) [signature] Date: 10/1/2020

Title/Qualification of Inspector: CESCL

for Steve Goodrich
(under Steve's direction)

EH-USA001269

ED_005624_00000103-00036

Construction Stormwater Site Inspection Form

Project Name Election Permit # WAR306648 Inspection Date 9:30 Time 9/24/2020

Name of Certified Erosion Sediment Control Lead (CESCL) or qualified inspector if *less than one acre*
Print Name: Corey Klepe

Approximate rainfall amount since the last inspection (in inches): 1.5"

Approximate rainfall amount in the last 24 hours (in inches): 1"

Current Weather Clear ☐ Cloudy ☒ Mist ☐ Rain ☐ Wind ☐ Fog ☐

A. Type of inspection: Weekly ☒ Post Storm Event ☐ Other ☐

B. Phase of Active Construction (*check all that apply*):

X	Pre Construction/installation of erosion/sediment controls	X	Clearing/Demo/Grading	☐	Infrastructure/storm/roads
	Concrete pours	☐	Vertical Construction/buildings	☐	Utilities
	Offsite improvements	☐	Site temporary stabilized	☐	Final stabilization

C. Questions:

1. Were all areas of construction and discharge points inspected? Yes X No ___
2. Did you observe the presence of suspended sediment, turbidity, discoloration, or oil sheen Yes ___ No X
3. Was a water quality sample taken during inspection? (*refer to permit conditions S4 & S5*) Yes X No ___
4. Was there a turbid discharge 250 NTU or greater, or Transparency 6 cm or less?* Yes X No ___
5. If yes to #4 was it reported to Ecology? Yes ___ No X
6. Is pH sampling required? pH range required is 6.5 to 8.5. Yes ___ No X

If answering yes to a discharge, describe the event. Include when, where, and why it happened; what action was taken, and when.
Background NTU 1,000, Point of Compliance NTU 1,000, Discharge from conveyance channel 950 NTU, which is allowable per Election WQMP. No action required.

*If answering yes to # 4 record NTU/Transparency with continual sampling daily until turbidity is 25 NTU or less/ transparency is 33 cm or greater.

Sampling Results: Date: 9/24/2020

Parameter	Method (circle one)	Result			Other/Note
		NTU	cm	pH	
Turbidity	tube, meter, laboratory	950			w/in compliance
pH	Paper, kit, meter			7.3	

Construction Stormwater Site Inspection Form

D. Check the observed status of all items. Provide "Action Required "details and dates.

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
1 Clearing Limits	Before beginning land disturbing activities are all clearing limits, natural resource areas (streams, wetlands, buffers, trees) protected with barriers or similar BMPs? (high visibility recommended)	X					
2 Construction Access	Construction access is stabilized with quarry spalls or equivalent BMP to prevent sediment from being tracked onto roads?			X			
	Sediment tracked onto the road way was cleaned thoroughly at the end of the day or more frequent as necessary.			X			
3 Control Flow Rates	Are flow control measures installed to control stormwater volumes and velocity during construction and do they protect downstream properties and waterways from erosion?	X					
	If permanent infiltration ponds are used for flow control during construction, are they protected from siltation?			X			
4 Sediment Controls	All perimeter sediment controls (e.g. silt fence, wattles, compost socks, berms, etc.) installed, and maintained in accordance with the Stormwater Pollution Prevention Plan (SWPPP).	X					
	Sediment control BMPs (sediment ponds, traps, filters etc.) have been constructed and functional as the first step of grading.	X					
	Stormwater runoff from disturbed areas is directed to sediment removal BMP.	X					
5 Stabilize Soils	Have exposed un-worked soils been stabilized with effective BMP to prevent erosion and sediment deposition?	X					

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
5 Stabilize Soils Cont.	Are stockpiles stabilized from erosion, protected with sediment trapping measures and located away from drain inlet, waterways, and drainage channels?	X					
	Have soils been stabilized at the end of the shift, before a holiday or weekend if needed based on the weather forecast?	X					
6 Protect Slopes	Has stormwater and ground water been diverted away from slopes and disturbed areas with interceptor dikes, pipes and or swales?			X			
	Is off-site storm water managed separately from stormwater generated on the site?			X			
	Is excavated material placed on uphill side of trenches consistent with safety and space considerations?	X					
	Have check dams been placed at regular intervals within constructed channels that are cut down a slope?	X					
7 Drain Inlets	Storm drain inlets made operable during construction are protected.	X					
	Are existing storm drains within the influence of the project protected?	X					
8 Stabilize Channel and Outlets	Have all on-site conveyance channels been designed, constructed and stabilized to prevent erosion from expected peak flows?	X					
	Is stabilization, including armoring material, adequate to prevent erosion of outlets, adjacent stream banks, slopes and downstream conveyance systems?	X					
9 Control Pollutants	Are waste materials and demolition debris handled and disposed of to prevent contamination of stormwater?	X					
	Has cover been provided for all chemicals, liquid products, petroleum products, and other material?	X					
	Has secondary containment been provided capable of containing 110% of the volume?	X					
	Were contaminated surfaces cleaned immediately after a spill incident?			X			
	Were BMPs used to prevent contamination of stormwater by a pH modifying sources?			X			

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
9 Cont.	Wheel wash wastewater is handled and disposed of properly.			X			
10 Control Dewatering	Concrete washout in designated areas. No washout or excess concrete on the ground.	X					
	Dewatering has been done to an approved source and in compliance with the SWPPP.	X					
	Were there any clean non turbid dewatering discharges?		X				
11 Maintain BMP	Are all temporary and permanent erosion and sediment control BMPs maintained to perform as intended?	X					
12 Manage the Project	Has the project been phased to the maximum degree practicable?	X					
	Has regular inspection, monitoring and maintenance been performed as required by the permit?	X					
	Has the SWPPP been updated, implemented and records maintained?	X					
13 Protect LID	Is all Bioretention and Rain Garden Facilities protected from sedimentation with appropriate BMPs?	X					
	Is the Bioretention and Rain Garden protected against over compaction of construction equipment and foot traffic to retain its infiltration capabilities?	X					
	Permeable pavements are clean and free of sediment and sediment laden-water runoff. Muddy construction equipment has not been on the base material or pavement.			X			
	Have soiled permeable pavements been cleaned of sediments and pass infiltration test as required by stormwater manual methodology?			X			
	Heavy equipment has been kept off existing soils under LID facilities to retain infiltration rate.	X					

E. Check all areas that have been inspected.

All in place BMPs ☑ All disturbed soils ☑ All concrete wash out area ☑ All material storage areas ☑
All discharge locations ☑ All equipment storage areas ☑ All construction entrances/exits ☑

Construction Stormwater Site Inspection Form

F. Elements checked "Action Required" (section D) describe corrective action to be taken. List the element number; be specific on location and work needed. Document, initial, and date when the corrective action has been completed and inspected.

Element #	Description and Location	Action Required	Completion Date	Initials

Attach additional page if needed

Sign the following certification:

"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief"

Inspected by: (print) Corey Klepper (Signature) [signature] Date: 9/24/2020

Title/Qualification of Inspector: CESCL

under direction from Stan Goodrich

Construction Stormwater Site Inspection Form

Project Name Electron Permit # WAR306648 Inspection Date 9/17/2024 Time 7:00 am

Name of Certified Erosion Sediment Control Lead (CESCL) or qualified inspector if *less than one acre*
Print Name: Corey Klepke

Approximate rainfall amount since the last inspection (in inches): 0

Approximate rainfall amount in the last 24 hours (in inches): 0

Current Weather Clear [X] Cloudy [ ] Mist [ ] Rain [ ] Wind [ ] Fog [ ]

A. Type of Inspection: Weekly [X] Post Storm Event [ ] Other [ ]

B. Phase of Active Construction (*check all that apply*):

Pre Construction/installation of erosion/sediment controls	[ ]	Clearing/Demo/Grading	[ ] Infrastructure/storm/roads [ ]
Concrete pours	[ ]	Vertical Construction/buildings	[ ] Utilities [ ]
Offsite improvements	[X]	Site temporary stabilized	[ ] Final stabilization [ ]

C. Questions:

1. Were all areas of construction and discharge points inspected?	Yes X	No ___
2. Did you observe the presence of suspended sediment, turbidity, discoloration, or oil sheen	Yes ___	No ___
3. Was a water quality sample taken during inspection? (*refer to permit conditions S4 & S5*)	Yes ___	No ___
4. Was there a turbid discharge 250 NTU or greater, or Transparency 6 cm or less?*	Yes ___	No ___
5. If yes to #4 was it reported to Ecology?	Yes ___	No ___
6. Is pH sampling required? pH range required is 6.5 to 8.5.	Yes ___	No X

If answering yes to a discharge, describe the event. Include when, where, and why it happened; what action was taken, and when.

*If answering yes to # 4 record NTU/Transparency with continual sampling daily until turbidity is 25 NTU or less/ transparency is 33 cm or greater.

Sampling Results: Date:

Parameter	Method (circle one)	Result			Other/Note
		NTU	cm	pH	
Turbidity	tube, meter, laboratory	100			EPA Healy
pH	Paper, kit, meter			7.30	

F. Elements checked "Action Required" (section D) describe corrective action to be taken. List the element number; be specific on location and work needed. Document, initial, and date when the corrective action has been completed and inspected.

Element #	Description and location	Action Required	Completion Date	Initials
2	quarry spalls determined			CK
	Not applicable			
	roads graveled & shoulders	done	9/16/2020	CK
	covered			
	Slope US from bridge			
	protected w/ Jute Blankets	Needs to be completed		CK

Attach additional page if needed

Sign the following certification:

"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief"

Inspected by: (print) Corey Kleffe (Signature) [signature] Date: 9/16/2020

Title/Qualification of Inspector: GESU

under direction from Steve Goodrich SGY

Construction Stormwater Site Inspection Form

Project Name Electron Permit # WAR306648 Inspection Date 9/10/20 Time 10:20am

Name of Certified Erosion Sediment Control Lead (CESCL) or qualified inspector if *less than one acre*
Print Name: Corey Klepze

Approximate rainfall amount since the last inspection (in inches): Ø

Approximate rainfall amount in the last 24 hours (in inches): Ø

Current Weather Clear [X] Cloudy [ ] Mist [ ] Rain [ ] Wind [ ] Fog [ ]

A. Type of inspection: Weekly [X] Post Storm Event [ ] Other [ ]

B. Phase of Active Construction (*check all that apply*):

Pre Construction/installation of erosion/sediment controls	[ ]	Clearing/Demo/Grading	[ ]	Infrastructure/storm/roads	[ ]
Concrete pours	[ ]	Vertical Construction/buildings	[ ]	Utilities	[ ]
Offsite improvements	[X]	Site temporary stabilized	[ ]	Final stabilization	[ ]

C. Questions:

1. Were all areas of construction and discharge points inspected? Yes X No ___
2. Did you observe the presence of suspended sediment, turbidity, discoloration, or oil sheen Yes ___ No X
3. Was a water quality sample taken during inspection? (*refer to permit conditions S4 & S5*) Yes X No ___
4. Was there a turbid discharge 250 NTU or greater, or Transparency 6 cm or less?* Yes ___ No X
5. If yes to #4 was it reported to Ecology? Yes ___ No ___
6. Is pH sampling required? pH range required is 6.5 to 8.5. Yes ___ No X

If answering yes to a discharge, describe the event. Include when, where, and why it happened; what action was taken, and when.

*If answering yes to # 4 record NTU/Transparency with continual sampling daily until turbidity is 25 NTU or less/ transparency is 33 cm or greater.

Sampling Results: Date: 9/10/2020

Parameter	Method (circle one)	Result			Other/Note
		NTU	cm	pH	
Turbidity	tube, meter, laboratory	160			
pH	Paper, kit, meter			7.14	

Construction Stormwater Site Inspection Form

D. Check the observed status of all items. Provide "Action Required "details and dates.

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
1 Clearing Limits	Before beginning land disturbing activities are all clearing limits, natural resource areas (streams, wetlands, buffers, trees) protected with barriers or similar BMPs? (high visibility recommended)	X					
2 Construction Access	Construction access is stabilized with quarry spalls or equivalent BMP to prevent sediment from being tracked onto roads?						
	Sediment tracked onto the road way was cleaned thoroughly at the end of the day or more frequent as necessary.			X			
3 Control Flow Rates	Are flow control measures installed to control stormwater volumes and velocity during construction and do they protect downstream properties and waterways from erosion?	X					
	If permanent infiltration ponds are used for flow control during construction, are they protected from siltation?			X			
4 Sediment Controls	All perimeter sediment controls (e.g. silt fence, wattles, compost socks, berms, etc.) installed, and maintained in accordance with the Stormwater Pollution Prevention Plan (SWPPP).	X					
	Sediment control BMPs (sediment ponds, traps, filters etc.) have been constructed and functional as the first step of grading.	X					
	Stormwater runoff from disturbed areas is directed to sediment removal BMP.	X					
5 Stabilize Soils	Have exposed un-worked soils been stabilized with effective BMP to prevent erosion and sediment deposition?		X				See F

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
5 Stabilize Soils Cont.	Are stockpiles stabilized from erosion, protected with sediment trapping measures and located away from drain inlet, waterways, and drainage channels?	X					
	Have soils been stabilized at the end of the shift, before a holiday or weekend if needed based on the weather forecast?	X					
6 Protect Slopes	Has stormwater and ground water been diverted away from slopes and disturbed areas with interceptor dikes, pipes and or swales?			X			
	Is off-site storm water managed separately from stormwater generated on the site?			X			
	Is excavated material placed on uphill side of trenches consistent with safety and space considerations?	X					
	Have check dams been placed at regular intervals within constructed channels that are cut down a slope?	X					
7 Drain Inlets	Storm drain inlets made operable during construction are protected.	X					
	Are existing storm drains within the influence of the project protected?	X					
8 Stabilize Channel and Outlets	Have all on-site conveyance channels been designed, constructed and stabilized to prevent erosion from expected peak flows?	X					
	Is stabilization, including armoring material, adequate to prevent erosion of outlets, adjacent stream banks, slopes and downstream conveyance systems?	X					
9 Control Pollutants	Are waste materials and demolition debris handled and disposed of to prevent contamination of stormwater?	X					
	Has cover been provided for all chemicals, liquid products, petroleum products, and other material?	X					
	Has secondary containment been provided capable of containing 110% of the volume?						
	Were contaminated surfaces cleaned immediately after a spill incident?			X			
	Were BMPs used to prevent contamination of stormwater by a pH modifying sources?			X			

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
9 Cont.	Wheel wash wastewater is handled and disposed of properly.			X			
10 Control Dewatering	Concrete washout in designated areas. No washout or excess concrete on the ground.	X					
	Dewatering has been done to an approved source and in compliance with the SWPPP.	X					
	Were there any clean non turbid dewatering discharges?			X			
11 Maintain BMP	Are all temporary and permanent erosion and sediment control BMPs maintained to perform as intended?	X					
12 Manage the Project	Has the project been phased to the maximum degree practicable?	X					
	Has regular inspection, monitoring and maintenance been performed as required by the permit?	X					
	Has the SWPPP been updated, implemented and records maintained?	X					
13 Protect LID	Is all Bioretention and Rain Garden Facilities protected from sedimentation with appropriate BMPs?	X					
	Is the Bioretention and Rain Garden protected against over compaction of construction equipment and foot traffic to retain its infiltration capabilities?	X					
	Permeable pavements are clean and free of sediment and sediment laden-water runoff. Muddy construction equipment has not been on the base material or pavement.			X			
	Have soiled permeable pavements been cleaned of sediments and pass infiltration test as required by stormwater manual methodology?			X			
	Heavy equipment has been kept off existing soils under LID facilities to retain infiltration rate.	X					

E. Check all areas that have been inspected.

All in place BMPs ☑ All disturbed soils ☑ All concrete wash out area ☑ All material storage areas ☑
All discharge locations ☑ All equipment storage areas ☑ All construction entrances/exits ☑

Construction Stormwater Site Inspection Form

F. Elements checked "Action Required" (section D) describe corrective action to be taken. List the element number; be specific on location and work needed. Document, initial, and date when the corrective action has been completed and inspected.

Element #	Description and Location	Action Required	Completion Date	Initials
	Stairs by chalet	Cover exposed dirt & graded		
2		need quarry spalls		CK
5	- Shoulders of roads need gravel	grade & gravel roads		CK
	- Steep slopes ~~[illegible]~~ by	either mulch or hydroseed		CK
	Conveyance ditch & chalet exposed	or Leavy blankets for		
		steep slopes		
	Slope drain upper landing	infiltrating no slope drain		CK
		needed		
		- needs Blankets/Mats &		CK
		check dams built up		

Attach additional page if needed

Sign the following certification:

"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief"

Inspected by: (print) Corey Klepe (Signature) [signature] Date: 9/10/2020

Title/Qualification of Inspector: CESCL

under direction per Steve Goodrich

Construction Stormwater Site Inspection Form

Project Name Electron **Permit #** WAR306648 **Inspection Date** 9/3/2020 **Time** 7:02 Am

Name of Certified Erosion Sediment Control Lead (CESCL) or qualified inspector if *less than one acre*
Print Name: Corey Klepe

Approximate rainfall amount since the last inspection (in inches): 0

Approximate rainfall amount in the last 24 hours (in inches): 0

Current Weather Clear [X] Cloudy [ ] Mist [ ] Rain [ ] Wind [ ] Fog [ ]

A. Type of inspection: Weekly [X] Post Storm Event [ ] Other [ ]

B. Phase of Active Construction (*check all that apply*):

Pre Construction/installation of erosion/sediment controls	[ ]	Clearing/Demo/Grading	[ ]	Infrastructure/storm/roads	[ ]
Concrete pours	[ ]	Vertical Construction/buildings	[ ]	Utilities	[ ]
Offsite improvements	[X]	Site temporary stabilized	[ ]	Final stabilization	[ ]

C. Questions:

1. Were all areas of construction and discharge points inspected? Yes [X] No [ ]
2. Did you observe the presence of suspended sediment, turbidity, discoloration, or oil sheen Yes [ ] No [X]
3. Was a water quality sample taken during inspection? (*refer to permit conditions S4 & S5*) Yes [ ] No [ ]
4. Was there a turbid discharge 250 NTU or greater, or Transparency 6 cm or less?* Yes [ ] No [ ]
5. If yes to #4 was it reported to Ecology? Yes [ ] No [ ]
6. Is pH sampling required? pH range required is 6.5 to 8.5. Yes [ ] No [X]

If answering yes to a discharge, describe the event. Include when, where, and why it happened; what action was taken, and when.

*If answering yes to # 4 record NTU/Transparency with continual sampling daily until turbidity is 25 NTU or less/ transparency is 33 cm or greater.

Sampling Results: Date: 9/3/2020

Parameter	Method (circle one)	Result			Other/Note
		NTU	cm	pH	
Turbidity	tube, meter, laboratory	600			EPA Reading
pH	Paper, kit, meter			7.25	

Construction Stormwater Site Inspection Form

D. Check the observed status of all items. Provide "Action Required "details and dates.

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
1 Clearing Limits	Before beginning land disturbing activities are all clearing limits, natural resource areas (streams, wetlands, buffers, trees) protected with barriers or similar BMPs? (high visibility recommended)	X					
2 Construction Access	Construction access is stabilized with quarry spalls or equivalent BMP to prevent sediment from being tracked onto roads?		X		add in quarry spalls		see F.
	Sediment tracked onto the road way was cleaned thoroughly at the end of the day or more frequent as necessary.			X			
3 Control Flow Rates	Are flow control measures installed to control stormwater volumes and velocity during construction and do they protect downstream properties and waterways from erosion?	X					
	If permanent infiltration ponds are used for flow control during construction, are they protected from siltation?			X			
4 Sediment Controls	All perimeter sediment controls (e.g. silt fence, wattles, compost socks, berms, etc.) installed, and maintained in accordance with the Stormwater Pollution Prevention Plan (SWPPP).	X					
	Sediment control BMPs (sediment ponds, traps, filters etc.) have been constructed and functional as the first step of grading.	X					
	Stormwater runoff from disturbed areas is directed to sediment removal BMP.	X					
5 Stabilize Soils	Have exposed un-worked soils been stabilized with effective BMP to prevent erosion and sediment deposition?	X	X SPY				SEE F SPY

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
5 Stabilize Soils Cont.	Are stockpiles stabilized from erosion, protected with sediment trapping measures and located away from drain inlet, waterways, and drainage channels?	X					
	Have soils been stabilized at the end of the shift, before a holiday or weekend if needed based on the weather forecast?	X					
6 Protect Slopes	Has stormwater and ground water been diverted away from slopes and disturbed areas with interceptor dikes, pipes and or swales?			X			
	Is off-site storm water managed separately from stormwater generated on the site?			X			
	Is excavated material placed on uphill side of trenches consistent with safety and space considerations?	X					
	Have check dams been placed at regular intervals within constructed channels that are cut down a slope?	X					
7 Drain Inlets	Storm drain inlets made operable during construction are protected.	X					
	Are existing storm drains within the influence of the project protected?	X					
8 Stabilize Channel and Outlets	Have all on-site conveyance channels been designed, constructed and stabilized to prevent erosion from expected peak flows?	X					
	Is stabilization, including armoring material, adequate to prevent erosion of outlets, adjacent stream banks, slopes and downstream conveyance systems?	X					
9 Control Pollutants	Are waste materials and demolition debris handled and disposed of to prevent contamination of stormwater?	X					
	Has cover been provided for all chemicals, liquid products, petroleum products, and other material?	X					
	Has secondary containment been provided capable of containing 110% of the volume?	X					
	Were contaminated surfaces cleaned immediately after a spill incident?			X			
	Were BMPs used to prevent contamination of stormwater by a pH modifying sources?			X			

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
9 Cont.	Wheel wash wastewater is handled and disposed of properly.			X			
10 Control Dewatering	Concrete washout in designated areas. No washout or excess concrete on the ground.	X					
	Dewatering has been done to an approved source and in compliance with the SWPPP.	X					
	Were there any clean non turbid dewatering discharges?		X				
11 Maintain BMP	Are all temporary and permanent erosion and sediment control BMPs maintained to perform as intended?	X					
12 Manage the Project	Has the project been phased to the maximum degree practicable?	X					
	Has regular inspection, monitoring and maintenance been performed as required by the permit?	X					
	Has the SWPPP been updated, implemented and records maintained?	X					
13 Protect LID	Is all Bioretention and Rain Garden Facilities protected from sedimentation with appropriate BMPs?	X					
	Is the Bioretention and Rain Garden protected against over compaction of construction equipment and foot traffic to retain its infiltration capabilities?	X		X			
	Permeable pavements are clean and free of sediment and sediment laden-water runoff. Muddy construction equipment has not been on the base material or pavement.			X			
	Have soiled permeable pavements been cleaned of sediments and pass infiltration test as required by stormwater manual methodology?			X			
	Heavy equipment has been kept off existing soils under LID facilities to retain infiltration rate.	X					

E. Check all areas that have been inspected.

All in place BMPs [X] All disturbed soils [X] All concrete wash out area [X] All material storage areas [X]
All discharge locations [X] All equipment storage areas [X] All construction entrances/exits [X]

Construction Stormwater Site Inspection Form

F. Elements checked "Action Required" (section D) describe corrective action to be taken. List the element number; be specific on location and work needed. Document, initial, and date when the corrective action has been completed and inspected.

Element #	Description and Location	Action Required	Completion Date	Initials
2	Not completed from last week	needs quarry spalls		CK
4	Slope cut for fill	cut x toe slope	8/1/2020	CK
4	Manhole protection	fence around manhole	8/31/2020	CK
8	Conveyance ditch stone	stone 2" covered dirt	9/2/2020	CK
4-5	roads graveled, but not		9/3/2020	CK
	completed yet	need to finish gravelling		
		Intend to finish grading		
		gravel (see #5)		

Attach additional page if needed

Sign the following certification:

"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief"

Inspected by: (print) Corey Kleffe (Signature) [signature] Date: 9/3/2020

Title/Qualification of Inspector: CESCL

under direction from Steve Goodrich

[signature]

Construction Stormwater Site Inspection Form

Project Name Elcton Permit # WAR300048 Inspection Date 8/27/20 Time 8:30 Am

Name of Certified Erosion Sediment Control Lead (CESCL) or qualified inspector if *less than one acre*
Print Name: Corey Kepple

Approximate rainfall amount since the last inspection (in inches): Ø

Approximate rainfall amount in the last 24 hours (in inches): Ø

Current Weather Clear [X] Cloudy [X] Mist [ ] Rain [ ] Wind [ ] Fog [ ]

A. Type of inspection: Weekly [X] Post Storm Event [ ] Other [ ]

B. Phase of Active Construction (*check all that apply*):

Pre Construction/installation of erosion/sediment controls	[ ]	Clearing/Demo/Grading	[ ]	Infrastructure/storm/roads	[ ]
Concrete pours	[ ]	Vertical Construction/buildings	[ ]	Utilities	[ ]
Offsite improvements	[X]	Site temporary stabilized	[ ]	Final stabilization	[ ]

C. Questions:

1. Were all areas of construction and discharge points inspected? Yes X No ___
2. Did you observe the presence of suspended sediment, turbidity, discoloration, or oil sheen Yes ___ No ___
3. Was a water quality sample taken during inspection? (*refer to permit conditions S4 & S5*) Yes ___ No ___
4. Was there a turbid discharge 250 NTU or greater, or Transparency 6 cm or less?* Yes ___ No X
5. If yes to #4 was it reported to Ecology? Yes ___ No ___
6. Is pH sampling required? pH range required is 6.5 to 8.5. Yes ___ No X

If answering yes to a discharge, describe the event. Include when, where, and why it happened; what action was taken, and when.
No discharge took place

*If answering yes to # 4 record NTU/Transparency with continual sampling daily until turbidity is 25 NTU or less/ transparency is 33 cm or greater.

Sampling Results: Date:

Parameter	Method (circle one)	Result			Other/Note
		NTU	cm	pH	
Turbidity	tube, meter, laboratory	104		7.6	Up stream pond @ Site 1
pH	Paper, kit, meter				

Construction Stormwater Site Inspection Form

D. Check the observed status of all items. Provide "Action Required "details and dates.

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
1 Clearing Limits	Before beginning land disturbing activities are all clearing limits, natural resource areas (streams, wetlands, buffers, trees) protected with barriers or similar BMPs? (high visibility recommended)	X			Constant monitoring		
2 Construction Access	Construction access is stabilized with quarry spalls or equivalent BMP to prevent sediment from being tracked onto roads?		X		add in quarry spalls		See F.
	Sediment tracked onto the road way was cleaned thoroughly at the end of the day or more frequent as necessary.			X	Private Dirt road		
3 Control Flow Rates	Are flow control measures installed to control stormwater volumes and velocity during construction and do they protect downstream properties and waterways from erosion?	X					
	If permanent infiltration ponds are used for flow control during construction, are they protected from siltation?			X			
4 Sediment Controls	All perimeter sediment controls (e.g. silt fence, wattles, compost socks, berms, etc.) installed, and maintained in accordance with the Stormwater Pollution Prevention Plan (SWPPP).	X					
	Sediment control BMPs (sediment ponds, traps, filters etc.) have been constructed and functional as the first step of grading.	X					
	Stormwater runoff from disturbed areas is directed to sediment removal BMP.	X					
5 Stabilize Soils	Have exposed un-worked soils been stabilized with effective BMP to prevent erosion and sediment deposition?	X					

EH-USA001288

ED_005624_00000103-00055

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
5 Stabilize Soils Cont.	Are stockpiles stabilized from erosion, protected with sediment trapping measures and located away from drain inlet, waterways, and drainage channels?	X					
	Have soils been stabilized at the end of the shift, before a holiday or weekend if needed based on the weather forecast?	X					
6 Protect Slopes	Has stormwater and ground water been diverted away from slopes and disturbed areas with interceptor dikes, pipes and or swales?			X			
	Is off-site storm water managed separately from stormwater generated on the site?			X	Forest Treated flows		
	Is excavated material placed on uphill side of trenches consistent with safety and space considerations?	X					
	Have check dams been placed at regular intervals within constructed channels that are cut down a slope?	X					
7 Drain Inlets	Storm drain inlets made operable during construction are protected.	X					
	Are existing storm drains within the influence of the project protected?	X					
8 Stabilize Channel and Outlets	Have all on-site conveyance channels been designed, constructed and stabilized to prevent erosion from expected peak flows?		X		left side bank needs PAM CRB or protection		Needs to have protect in place
	Is stabilization, including armoring material, adequate to prevent erosion of outlets, adjacent stream banks, slopes and downstream conveyance systems?		X				
9 Control Pollutants	Are waste materials and demolition debris handled and disposed of to prevent contamination of stormwater?	X					
	Has cover been provided for all chemicals, liquid products, petroleum products, and other material?	X					
	Has secondary containment been provided capable of containing 110% of the volume?	X					
	Were contaminated surfaces cleaned immediately after a spill incident?			X			
	Were BMPs used to prevent contamination of stormwater by a pH modifying sources?			X			

EH-USA001289

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Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
9 Cont.	Wheel wash wastewater is handled and disposed of properly.			X	none generated		
10 Control Dewatering	Concrete washout in designated areas. No washout or excess concrete on the ground.	X					
	Dewatering has been done to an approved source and in compliance with the SWPPP.	X					
	Were there any clean non turbid dewatering discharges?		X				
11 Maintain BMP	Are all temporary and permanent erosion and sediment control BMPs maintained to perform as intended?	X					
12 Manage the Project	Has the project been phased to the maximum degree practicable?	X					
	Has regular inspection, monitoring and maintenance been performed as required by the permit?	X					
	Has the SWPPP been updated, implemented and records maintained?	X					
13 Protect LID	Is all Bioretention and Rain Garden Facilities protected from sedimentation with appropriate BMPs?	X			Bio treat outside work area		
	Is the Bioretention and Rain Garden protected against over compaction of construction equipment and foot traffic to retain its infiltration capabilities?	X			" "		
	Permeable pavements are clean and free of sediment and sediment laden-water runoff. Muddy construction equipment has not been on the base material or pavement.			X			
	Have soiled permeable pavements been cleaned of sediments and pass infiltration test as required by stormwater manual methodology?			X			
	Heavy equipment has been kept off existing soils under LID facilities to retain infiltration rate.	X					

E. Check all areas that have been inspected. ✓

All in place BMPs ☑ All disturbed soils ☑ All concrete wash out area ☑ All material storage areas ☑
All discharge locations ☑ All equipment storage areas ☑ All construction entrances/exits ☑

Construction Stormwater Site Inspection Form

F. Elements checked "Action Required" (section D) describe corrective action to be taken. List the element number; be specific on location and work needed. Document, initial, and date when the corrective action has been completed and inspected.

Element #	Description and Location	Action Required	Completion Date	Initials
2	Access US & DS to river	needs quarry spall		
4	Slope cut back behind chalet	Needs to be completed.		
		Being looked @ for design		
4	Manhole protection	needs to be designed		
		& completed. to be		
		completed 8/28/2020		
8	Along Conveyance ditch	add soil Erosion protection		
	Per Carol Sercher for road	needs to gravelled or equivalent		

Attach additional page if needed & resurface road.

Sign the following certification:

"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief"

Inspected by: (print) Corey Kleppe (Signature) [signature] Date: 8/27/2020

Title/Qualification of Inspector: CESCL / ECO 3 trained

Under Steve Goodrich

Construction Stormwater Site Inspection Form

Project Name INTAKE **Permit #** WAR 306648 **Inspection Date** week of Feb **Time** Daily

Name of Certified Erosion Sediment Control Lead (CESCL) or qualified inspector if *less than one acre*
Print Name: STEVEN Gassaroch

Approximate rainfall amount since the last inspection (in inches): #0

Approximate rainfall amount in the last 24 hours (in inches): #0

Current Weather Clear [X] Cloudy [X] Mist [ ] Rain [ ] Wind [ ] Fog [ ] SCATTER CLO

A. Type of inspection: Weekly [X] Post Storm Event [ ] Other [X]

B. Phase of Active Construction (*check all that apply*):

Pre Construction/installation of erosion/sediment controls [ ]
Concrete pours [ ]
Offsite improvements [ ]

Clearing/Demo/Grading [ ]
Vertical Construction/buildings [ ]
Site temporary stabilized [X]

Infrastructure/storm/roads [X]
Utilities [ ]
Final stabilization [ ]

C. Questions:

1. Were all areas of construction and discharge points inspected? Yes [X] No [ ]
2. Did you observe the presence of suspended sediment, turbidity, discoloration, or oil sheen Yes [X] No [ ]
3. Was a water quality sample taken during inspection? (*refer to permit conditions S4 & S5*) Yes [X] No [ ] see by
4. Was there a turbid discharge 250 NTU or greater, or Transparency 6 cm or less?* Yes [ ] No [ ]
5. If yes to #4 was it reported to Ecology? Yes [ ] No [X] Always
6. Is pH sampling required? pH range required is 6.5 to 8.5. Yes [ ] No [X]

If answering yes to a discharge, describe the event. Include when, where, and why it happened; what action was taken, and when.
Discharge water was clearer than river, water normally turbid from River

*If answering yes to # 4 record NTU/Transparency with continual sampling daily until turbidity is 25 NTU or less/ transparency is 33 cm or greater.

Sampling Results: Date:

Parameter	Method (circle one)	Result			Other/Note
		NTU	cm	pH	
Turbidity	tube, meter, laboratory				
pH	Paper, kit, meter				

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Construction Stormwater Site Inspection Form

D. Check the observed status of all items. Provide "Action Required "details and dates.

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
1 Clearing Limits	Before beginning land disturbing activities are all clearing limits, natural resource areas (streams, wetlands, buffers, trees) protected with barriers or similar BMPs? (high visibility recommended)	X	X		FLAGGED Limit		ADD Rubber Gen Trans upgrades
2 Construction Access	Construction access is stabilized with quarry spalls or equivalent BMP to prevent sediment from being tracked onto roads?	X			[illegible]		
	Sediment tracked onto the road way was cleaned thoroughly at the end of the day or more frequent as necessary.		X		Dirt Road		
3 Control Flow Rates	Are flow control measures installed to control stormwater volumes and velocity during construction and do they protect downstream properties and waterways from erosion?	X			Clean silt Fix check dams		BEING UP GRADED
	If permanent infiltration ponds are used for flow control during construction, are they protected from siltation?						
4 Sediment Controls	All perimeter sediment controls (e.g. silt fence, wattles, compost socks, berms, etc.) installed, and maintained in accordance with the Stormwater Pollution Prevention Plan (SWPPP).	X					[illegible]
	Sediment control BMPs (sediment ponds, traps, filters etc.) have been constructed and functional as the first step of grading.	X					Control outlet Rock Bdant EDGE Silt Fen
	Stormwater runoff from disturbed areas is directed to sediment removal BMP.	X			Remove silt fix check dams		
5 Stabilize Soils	Have exposed un-worked soils been stabilized with effective BMP to prevent erosion and sediment deposition?		X		Work remains		- FINISH SPOTS - GROUND Back Rec - NETTING MAY BE Needed Fig 6

Construction Stormwater Site Inspection Form

Project Name INTAKE **Permit #** WAR 306648 **Inspection Date** week of 16th **Time** DAILY

Name of Certified Erosion Sediment Control Lead (CESCL) or qualified inspector if *less than one acre*
Print Name: STEVEN GASOREK

Approximate rainfall amount since the last inspection (in inches): #0

Approximate rainfall amount in the last 24 hours (in inches): #0

Current Weather Clear [X] Cloudy [X] Mist [ ] Rain [ ] Wind [ ] Fog [ ] SCATTER 030

A. Type of inspection: Weekly [X] Post Storm Event [ ] Other [X]

B. Phase of Active Construction (*check all that apply*):

Pre Construction/installation of erosion/sediment controls	[ ]	Clearing/Demo/Grading	[X]	Infrastructure/storm/roads	[ ]
Concrete pours	[ ]	Vertical Construction/buildings	[ ]	Utilities	[ ]
Offsite improvements	[X]	Site temporary stabilized	[ ]	Final stabilization	[ ]

C. Questions:

1. Were all areas of construction and discharge points inspected?	Yes X	No ___
2. Did you observe the presence of suspended sediment, turbidity, discoloration, or oil sheen	Yes X	No ___
3. Was a water quality sample taken during inspection? (*refer to permit conditions S4 & S5*)	Yes X	No ___ see by
4. Was there a turbid discharge 250 NTU or greater, or Transparency 6 cm or less?*	Yes ___	No ___
5. If yes to #4 was it reported to Ecology?	Yes ___	No X Always
6. Is pH sampling required? pH range required is 6.5 to 8.5.	Yes ___	No X

If answering yes to a discharge, describe the event. Include when, where, and why it happened; what action was taken, and when.

Discharge water was clearer than river, water normally turbid from River)

*If answering yes to # 4 record NTU/Transparency with continual sampling daily until turbidity is 25 NTU or less/ transparency is 33 cm or greater.

Sampling Results: Date:

Parameter	Method (circle one)	Result			Other/Note
		NTU	cm	pH	
Turbidity	tube, meter, laboratory				
pH	Paper, kit, meter				

EH-USA001294

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Construction Stormwater Site Inspection Form

D. Check the observed status of all items. Provide "Action Required "details and dates.

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
1 Clearing Limits	Before beginning land disturbing activities are all clearing limits, natural resource areas (streams, wetlands, buffers, trees) protected with barriers or similar BMPs? (high visibility recommended)	X			FLAGGED Limit		ADD Rubble Gen Trans Upgrades
2 Construction Access	Construction access is stabilized with quarry spalls or equivalent BMP to prevent sediment from being tracked onto roads?	X			[illegible]		
	Sediment tracked onto the road way was cleaned thoroughly at the end of the day or more frequent as necessary.		X		Dirt Road		
3 Control Flow Rates	Are flow control measures installed to control stormwater volumes and velocity during construction and do they protect downstream properties and waterways from erosion?	X			Clean silt Fix check dams		BEING UP GRADED
	If permanent infiltration ponds are used for flow control during construction, are they protected from siltation?						
4 Sediment Controls	All perimeter sediment controls (e.g. silt fence, wattles, compost socks, berms, etc.) installed, and maintained in accordance with the Stormwater Pollution Prevention Plan (SWPPP).	X					[illegible]
	Sediment control BMPs (sediment ponds, traps, filters etc.) have been constructed and functional as the first step of grading.	X					Control outlet Rock Bdant EDGE Silt Fen
	Stormwater runoff from disturbed areas is directed to sediment removal BMP.	X			Remove silt fix check dams		
5 Stabilize Soils	Have exposed un-worked soils been stabilized with effective BMP to prevent erosion and sediment deposition?		X		Work remains		- FINISH STOPS - GRAVE Back Rec - NETTING MAY BE Need ad Fish [illegible]

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
5 Stabilize Soils Cont.	Are stockpiles stabilized from erosion, protected with sediment trapping measures and located away from drain inlet, waterways, and drainage channels?	X					
	Have soils been stabilized at the end of the shift, before a holiday or weekend if needed based on the weather forecast?	Ø					
6 Protect Slopes	Has stormwater and ground water been diverted away from slopes and disturbed areas with interceptor dikes, pipes and or swales?			X			
	Is off-site storm water managed separately from stormwater generated on the site?			X			
	Is excavated material placed on uphill side of trenches consistent with safety and space considerations?	X					
	Have check dams been placed at regular intervals within constructed channels that are cut down a slope?	X			ADJACT with EXPOSED Rock		MAINTAIN CHECK DAMS
7 Drain Inlets	Storm drain inlets made operable during construction are protected.	X	X		Down Pour de		
	Are existing storm drains within the influence of the project protected?			X			
8 Stabilize Channel and Outlets	Have all on-site conveyance channels been designed, constructed and stabilized to prevent erosion from expected peak flows?	X			Pumping is Peak		
	Is stabilization, including armoring material, adequate to prevent erosion of outlets, adjacent stream banks, slopes and downstream conveyance systems?	X					
9 Control Pollutants	Are waste materials and demolition debris handled and disposed of to prevent contamination of stormwater?		X		NEED Pickup		
	Has cover been provided for all chemicals, liquid products, petroleum products, and other material?	—					
	Has secondary containment been provided capable of containing 110% of the volume?	—					
	Were contaminated surfaces cleaned immediately after a spill incident?			X			
	Were BMPs used to prevent contamination of stormwater by a pH modifying sources?			X			

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
9 Cont.	Wheel wash wastewater is handled and disposed of properly.			✓			
10 Control Dewatering	Concrete washout in designated areas. No washout or excess concrete on the ground.			✓			
	Dewatering has been done to an approved source and in compliance with the SWPPP.			✓			
	Were there any clean non turbid dewatering discharges?		X	✓	NO DEWATER		
11 Maintain BMP	Are all temporary and permanent erosion and sediment control BMPs maintained to perform as intended?						
12 Manage the Project	Has the project been phased to the maximum degree practicable?	X					
	Has regular inspection, monitoring and maintenance been performed as required by the permit?	X					
	Has the SWPPP been updated, implemented and records maintained?	X					
13 Protect LID	Is all Bioretention and Rain Garden Facilities protected from sedimentation with appropriate BMPs?	X			TAKEN OF LAND		
	Is the Bioretention and Rain Garden protected against over compaction of construction equipment and foot traffic to retain its infiltration capabilities?			X			
	Permeable pavements are clean and free of sediment and sediment laden-water runoff. Muddy construction equipment has not been on the base material or pavement.			X			
	Have soiled permeable pavements been cleaned of sediments and pass infiltration test as required by stormwater manual methodology?			X			
	Heavy equipment has been kept off existing soils under LID facilities to retain infiltration rate.			X			

E. Check all areas that have been inspected. ✓

All in place BMPs [X] All disturbed soils [X] All concrete wash out area [X] All material storage areas [ ]
All discharge locations [X] All equipment storage areas [X] All construction entrances/exits [ ]

Construction Stormwater Site Inspection Form

F. Elements checked "Action Required" (section D) describe corrective action to be taken. List the element number; be specific on location and work needed. Document, initial, and date when the corrective action has been completed and inspected.

Element #	Description and Location	Action Required	Completion Date	Initials
5	SLOPE COVERED - Netting Might BE WARRENTED			
3-5	MAINTAIN SEDIMENT POND -			
4-10	FIX DIVIDER & OUTLET - TEST (FINISH)			
7	POND INLET SEDIMENT AROUND MANHOLE			

Attach additional page if needed

Sign the following certification:

"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief" 8-16/20

Inspected by: (print) STEVEN P Goodrich PE (Signature) SP Goodrich PE Date: 8/13-16/20

Title/Qualification of Inspector: CESCL

Monthly Erosion & Sediment Control Report

Date: 8/17

Permit #WAR 306648

Electron Hydro Diversion Repair, Spillway Replacement and Bank Protection

Job Site Contact: Steven Goodrich 360-746-3420
sgoodrich@electronhydro.com

Is the site in compliance with the SWPPP and the permit requirements? Yes No
If no, has non-compliance been reported to WSDOE? Yes No
Will existing BMPs need to be modified, removed, or other BMPs installed? Yes No

Items to be Completed, Maintained or Modified	Date Completed
• Pull slopes back & pour steps	
• check dams spaced with 2"-4"	
• check on rubber write BMP & cleanup	
steps for dry land	
• behind grate barrier	
• fix fence in pond adjust outfall	
• stockpile fix for no runnoff	
• stock pile sand & gravel	
• fix concrete wash out	
• check volumes of double line	
• get paper work together	
• need construction access	
• street sweeper	

Describe discharging stormwater — None from upland

Visual change in Turbidness Yes No _____ %

Discoloration Yes No Cause _____

Oil Sheen Yes No Cause _____

Water Quality Monitoring Turbidity Yes No if yes results attached — see log

Was concrete being done pH Yes No if yes results attached.

Materials needed for next 7 days	Quanity
Wattles	≠100 ft
4 Cf Gravel 2" to 4"	4 C.Y.

Comments: _____

Signed: _____ Date: _____

ECO-3-5181809

	A	B	C	D	E	F	G	H	I	J	K	L	M	
1	Date	Day	Sampler	Time	Location	Turb1	Turb2	Turb3	Turb4	Turb Avg. (cm)	NTU	△ NTU	change from background	
2	7/15/2020	Wednesday	MV	8:10	Bridge Washout	5.4	5.2			5.3				
3				9:00	Acclimation Pond	4.5	4.2			4.35		0.95	(0.18)	
4				14:40	Bridge Washout	8.2	8.1			8.15	175			
5				15:30	Acclimation Pond	6	6.4	6		6.13	245	70	(0.25)	
6	7/18/2020	Saturday	MV	12:15	Bridge Washout	7.6	8	8		7.87	87			
7				12:45	Acclimation Pond	7.2	7.2			7.2	109	22	(0.09)	GOOD
8	7/21/2020	Tuesday	MV	12:00	Bridge Washout	5.6	6.2	5.9	5.8	5.88	156			
9				12:45	Acclimation Pond	4.2	4.2	4.4		4.27	197	41	(0.27)	
10	7/23/2020	Thursday	CK	NA	Bridge Washout	~8				8				
11				NA	Acclimation Pond	~6				6			(0.25)	
12	7/24/2020	Friday	MV	9:25	Acclimation Pond	5.4	5.3	5.5		5.4	170			
13				11:20	Bridge Washout	4	4	4.2		4.07	194	24	(0.25)	
14	7/30/2020	Thursday	MV	8:45	Bridge Washout	4.4	4.2	4.5		4.37	>200			
15				9:15	Acclimation Pond	3.6	3.5	3.4		3.5	>200		(0.20)	
16	7/31/2020	Friday	MV	7:45	Bridge Washout	1.4	1.2	1.5		1.37	>200			
17				8:15	Acclimation Pond	1.2	1.2	1.2		1.2	>200		(0.12)	
18	8/1/2020	Saturday	MV	13:15	Bridge Washout	4.2	4.2	4		4.13	>200			
19				14:00	Acclimation Pond	4.2	5	4.8	4.2	4.55	>200		0.10	GOOD
20				14:15	Staff Gage	3.6	3.8	3.8		3.73	>200			
21	8/3/2020	Monday	MV	9:15	Bridge Washout	6.6	6.8	6.6		6.67	108			
22				10:00	15mDSAccPond	5.6	5.8	5.6		5.67			(0.15)	
23				10:15	Staff Gage	6.4	6.2	6.4		6.33	108	0		
24	8/5/2020	Wednesday	MV	9:52	Bridge Washout	6.9	7.4	7.2		7.17	116			
25				8:15	5mUSAccPond	6.4	6.8	6.2	6.5	6.48			(0.10)	GOOD
26				8:30	Staff Gage	5.6	5.2	5.6	5.4	5.4	134	-18		
27	8/6/2020	Thursday	MV	10:35	Bridge Washout	9.9	10.4	10		10.1	75.3			
28				11:15	AccPondEffluent	0.6	0.6			0.6			(0.94)	GOOD
29				11:20	5mUSAccPond	11	10.6	10.8		10.8				
30				11:30	Staff Gage	9	9.2	9.5	8.8	9.13	88.5	13.2		
31	8/7/2020	Friday	MV	10:30	Bridge Washout	12.2	12.5	10.7	11.8	11.8	61			
32				11:00	AccPondEffluent	7.8	7.9	7.9		7.87			(0.33)	GOOD
33				11:10	5mUSAccPond	12.5	12.7	11.6	11.8	12.15				
34				11:25	Staff Gage	10.8	11.3	11		11.03	58.2	-2.8		
35				12:50	New Riverbed Settling	12	11.4	10.8	10.4	11.15				
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EH-USA001301

Jobsite: LIXTAKE : Permit # WAR 306648 Report Date/ Time 8/11/20

Site Inspection Checklist

G=Good F=Fair P=Poor Y=Yes N=No

Site BMPs	Overall Condition	Need Repair?	Comments/Observations
Clearing Limits			
• *Buffer Zones around sensitive areas*	G F P	Y N	
• *Clearling Limits Identified*	G F P	Y N	Add Barrier Line BY TRAILER
•	G F P	Y N	
Construction Access/Roads			
• *Stablized Construction Enterance / Exit*	G F P	Y N	
• *Stabilized roads/parking area*	G F P	Y N	
•	G F P	Y N	
Control Flow Rates			
• *Swale*	G F P	Y N	check check dam
• *Dike*	G F P	Y N	
• *Sediment pond*	G F P	Y N	Pull hay out replace @ EF check
• *Sediment trap*	G F P	Y N	
•	G F P	Y N	
•	G F P	Y N	
Install Sediment Controls			
• *Sediment pond/trap*	G F P	Y N	new check divide
• *Silt fence*	G F P	Y N	GET ON AND
• *Wattles*	G F P	Y N	GET ON HAND
• *Interceptor Dike or Swale*	G F P	Y N	
• *Vegitative Filtration*	G F P	Y N	
•	G F P	Y N	
Preserve Vegetation/Stabilize Soils			
• *Nets and blankets*	~~G F P~~	~~Y N~~	
• *Mulch*	~~G F P~~	~~Y N~~	
• *Seeding*	G F P	Y N	NOT YET
•	G F P	Y N	
•	G F P	Y N	
Protect Slopes			
• *Terrace*	G F P	Y N	Along Slope Rice Rock
• *Pipe slope drains*	G F P	Y N	PUT IN
•	G F P	Y N	
•	G F P	Y N	
Protect Drain Inlets			
• *Inserts*	G F P	Y N	INSTALL AT BEE HIVE
•	G F P	Y N	
•	G F P	Y N	
Stabilize Channels and Outlets			
• *Conveyance channels*	G F P	Y N	CHECKS
• *Energy dissipators*	G F P	Y N	INSTALL CHECKS
•	G F P	Y N	
Control Pollutants			
• *Chemical Storage Area covered*	G F P	Y N	
• *Concrete handling*	G F P	Y N	FIX UP
•	G F P	Y N	
Control De-watering			
•	G F P	Y N	Do it upstream

Rainfall Chart

Jobsite_____ Name _____

Date	Precipitation	Rain / Sleet / Snow	Temperature

Jobsite: INTAKE : Permit # 306648 Report Date/ Time 8/7/20

Site Inspection Checklist

G=Good F=Fair P=Poor Y=Yes N=No

Site BMPs	Overall Condition	Need Repair?	Comments/Observations
Clearing Limits			
• *Buffer Zones around sensitive areas*	G F P	Y N	
• *Clearling Limits Identified*	G F P	Y N	RIBBON DAY or TWO
•	G F P	Y N	
Construction Access/Roads			
• *Stablized Construction Enterance / Exit*	G F P	Y N	
• *Stabilized roads/parking area*	G F P	Y N	
•	G F P	Y N	
Control Flow Rates			
• *Swale*	G F P	Y N	CHECK DONE ~~8~~ -5/8" ~~MAW~~/NG.
• *Dike*	G F P	Y N	
• *Sediment pond*	G F P	Y N	STRAW DIVIDE QUESTION NEEDS REDO
• ~~*Sediment trap*~~	G F P	Y N	
•	G F P	Y N	
•	G F P	Y N	
Install Sediment Controls			
• *Sediment pond/trap*	G F P	Y N	MONTOR
• *Silt fence*	G F P	Y N	GET
• *Wattles*	G F P	Y N	GET
• *Interceptor Dike or Swale*	G F P	Y N	SLOWER IT IS
• *Vegitative Filtration*	G F P	Y N	
•	G F P	Y N	
Preserve Vegetation/Stabilize Soils			
• *Nets and blankets*	G F P	Y N	
• *Mulch*	G F P	Y N	
• *Seeding*	G F P	Y N	
•	G F P	Y N	
•	G F P	Y N	
Protect Slopes			
• *Terrace*	G F P	Y N	
• *Pipe slope drains*	G F P	Y N	FILL CUT OFF
•	G F P	Y N	
•	G F P	Y N	
Protect Drain Inlets			
• *Inserts*	G F P	Y N	GET DOWN
•	G F P	Y N	
•	G F P	Y N	
Stabilize Channels and Outlets			
• *Conveyance channels*	G F P	Y N	SLOWER
• *Energy dissipators*	G F P	Y N	
•	G F P	Y N	
Control Pollutants			
• *Chemical Storage Area covered*	G F P	Y N	
• *Concrete handling*	G F P	Y N	
•	G F P	Y N	
Control De-watering			
•	G F P	Y N	WORK PLAN

Rainfall Chart

Jobsite_____ Name _____

Date	Precipitation	Rain / Sleet / Snow	Temperature

Jobsite: Tyrone : **Permit #** 306698 **Report Date/ Time** 8/6/20

Site Inspection Checklist

G=Good F=Fair P=Poor Y=Yes N=No

Site BMPs	Overall Condition	Need Repair?	Comments/Observations
Clearing Limits			
• *Buffer Zones around sensitive areas*	G F P	Y N	
• *Clearling Limits Identified*	G F P	Y N	FLAGGING
•	G F P	Y N	
Construction Access/Roads			
• *Stablized Construction Enterance / Exit*	G F P	Y N	
• *Stabilized roads/parking area*	G F P	Y N	
•	G F P	Y N	
Control Flow Rates			
• *Swale*	G F P	Y N	SLOW DOWN FLOW
• *Dike*	G F P	Y N	
• *Sediment pond*	G F P	Y N	
• ~~*Sediment trap*~~	G F P	Y N	DIVIDE POND [TAL HAY]
•	G F P	Y N	
•	G F P	Y N	
Install Sediment Controls			
• *Sediment pond/trap*	G F P	Y N	DIVIDE — REVISE
• *Silt fence*	G F P	Y N	GET
• *Wattles*	G F P	Y N	GET
• *Interceptor Dike or Swale*	G F P	Y N	NOT YET
• *Vegitative Filtration*	G F P	Y N	NOT YET
•	G F P	Y N	
Preserve Vegetation/Stabilize Soils			
• *Nets and blankets*	G F P	Y N	NOT YET
• *Mulch*	G F P	Y N	
• *Seeding*	G F P	Y N	
•	G F P	Y N	
•	G F P	Y N	
Protect Slopes			
• ~~*Terrace*~~	G F P	Y N	
• ~~*Pipe slope drains*~~	G F P	Y N	
•	G F P	Y N	
•	G F P	Y N	
Protect Drain Inlets			
• *Inserts*	G F P	Y N	MANHOLE — ?
•	G F P	Y N	
•	G F P	Y N	
Stabilize Channels and Outlets			
• *Conveyance channels*	G F P	Y N	CHECK DAMS INTO DIV
• ~~*Energy dissipators*~~	G F P	Y N	
•	G F P	Y N	
Control Pollutants			
• *Chemical Storage Area covered*	G F P	Y N	
• *Concrete handling*	G F P	Y N	
• MORE DIAPERS	G F P	Y N	
Control De-watering			
•	G F P	Y N	DEWATER TREAT MORE IMPROVE CHECKDAM, DISPERSE

NEW METER FOR VTU >500

Look at BIOCONTACT AFTER EVACUATION

Rainfall Chart

Jobsite_____ Name _____

Date	Precipitation	Rain / Sleet / Snow	Temperature

Monthly Erosion & Sediment Control Report

Date: 7/2020

Permit #WAR 306648

Electron Hydro Diversion Repair, Spillway Replacement and Bank Protection

Job Site Contact: Steven Goodrich 360-746-3420
sgoodrich@electronhydro.com

Is the site in compliance with the SWPPP and the permit requirements?	Yes	No
If no, has non-compliance been reported to WSDOE?	Yes	No
Will existing BMPs need to be modified, removed, or other BMPs installed?	Yes	No

Items to be Completed, Maintained or Modified	Date Completed
CHECK DAMS	
INLET PROTECT - BEEHIVE - INTAKE	
REIDENTIFY LIMITS	
SET WATTLES ON SLOPES	
DIVIDE POND - REDO WITH FILTER FABRIC	
GET SILT FENCING	
GET WATTLES	8-1-20
?Cofferdam	

NOT ON SITE YET WORK FISH SCREEN

Describe discharging stormwater

Visual change in Turbidness Yes No _____ %

Discoloration Yes No Cause Silt & Am

Oil Sheen Yes No Cause _____

Water Quality Monitoring Turbidity Yes No if yes results attached

Was concrete being done pH Yes No if yes results attached.

Materials needed for next 7 days	Quanity
SILT FENCE	300 LF
WATTLES	200 LF
MARKING FLAGGING BRIGHT	3 Rolls
GRAVEL	

Comments: Monitor All elements For Efficiency make change, high silt so Remove Expected in week or two, look for land disposal site

Signed: [signature] Date: 8/11/20

ECO-3-5181809

Monthly Erosion & Sediment Control Report

Date: JAN, FEB, MARCH APRIL, MAY JUNE 2020

Permit #WAR 306648

Electron Hydro Diversion Repair, Spillway Replacement and Bank Protection

Job Site Contact: Steven Goodrich 360-746-3420
sgoodrich@electronhydro.com

Is the site in compliance with the SWPPP and the permit requirements? Yes No
If no, has non-compliance been reported to WSDOE? Yes No
Will existing BMPs need to be modified, removed, or other BMPs installed? Yes No

Items to be Completed, Maintained or Modified	Date Completed
MATERIAL FOR BMP'S 2020 SEE	
JULY REPORT	
- Filter Fence INITIAL DURING IN WATER WOR	
- WATTLES → PLACE AS BUILT	
- FLAGGING →	
- GRAVEL - RETHER CHECK DAMS AS BUILT	8/20

Describe discharging stormwater

Visual change in Turbidness Yes No _____ %

Discoloration Yes No Cause _____

Oil Sheen Yes No Cause _____

Water Quality Monitoring Turbidity Yes No if yes results attached

Was concrete being done pH Yes No if yes results attached.

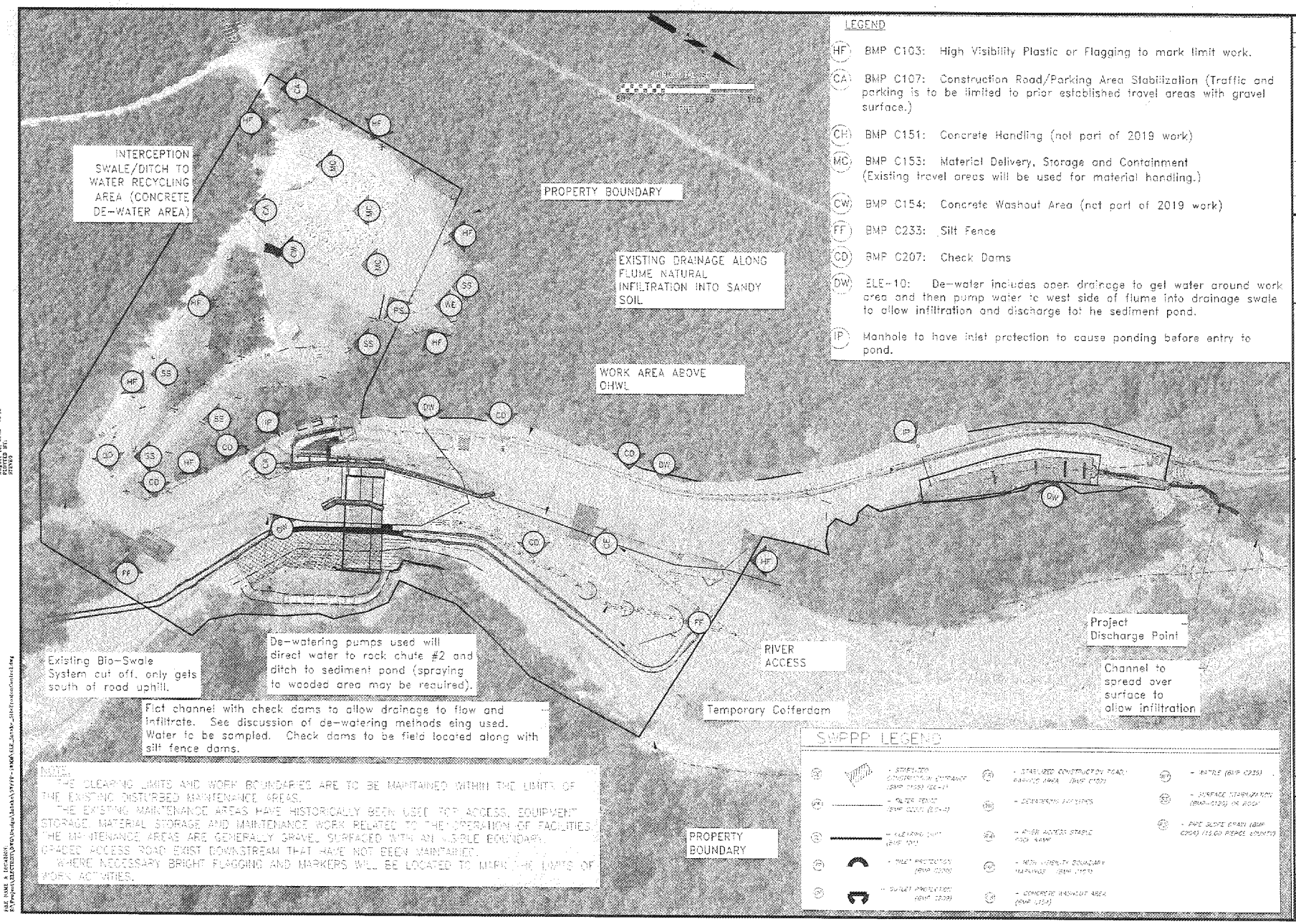
Materials needed for next 7 days	Quanity

Comments: Site Preparation Directed By Thom Fischer
Site Stabilized with fractured rock for work
Areas shown on Permit. Sediment Basin
Expanded will be Divide And Monitore. Use in
Spring to Acclimate Chinook

Signed: Steve [illegible] PE Date: 8/11/20

ECO-3-5181809

ED_005624_00000103-00079



EH-USA001312

Maintenance History

Dewatering Work Notes

Original concept, 2017, was to install a 24" to 36" vertical perforated pipe to collect water. Then pump the water to an pretreatment system which would discharge to a system of Spreader Pipes in the wooded shore area. This was upgraded to an infiltration gallery, where rock was stored, to allow infiltration and overflow into the woods.

In 2019 the wooded shore area was observed. It was agreed upon by staff and agency personnel it should not be disturbed and protected as much as possible. In July edits were made based on observed groundwater during 2018 work to form a larger dewatering infiltration gallery without spreader pipes to discharge into the wooded shore area. A shallow depression divided into cells to allow flow through and out the sides at various points if necessary. This would limit impacts on the wooded shore area.

During the early 2019 work observations of the soil and groundwater conditions indicated that using a sediment pond to remove sediment and allow shallow infiltration into local soils might perform the best. The interconnection of the river and groundwater showed the importance of allow removed water back in the river. A deeper sediment pond allowing infiltration not at the surface but in the shallow soil seems more indicative to maintaining a balance. To obtain the sediment pond recipe the depth should be at least 4.5' and less than 7' with an oversized outlet pipe installed. Discharge into the existing manmade floodgate discharge channel seemed the most appropriate.

The pond was excavated farther downstream from plan and retrofitted to a fish acclimation for spring and then retrofitted to a sedimentation pond for work.

EH-USA001313

ED_005624_00000103-00080

Construction Stormwater Site Inspection Form

Project Name **ELECTRON INTAKE** Permit # **WAR306648** Inspection Date **1/14/2020** Time _____

Name of Certified Erosion Sediment Control Lead (CESCL) or qualified inspector if *less than one acre*
Print Name: Steven P Goodrich PE

Approximate rainfall amount since the last inspection (in inches): _____

Approximate rainfall amount in the last 24 hours (in inches): _____

Current Weather Clear [X] Cloudy [ ] Mist [ ] Rain [ ] Wind [ ] Fog [ ]

A. Type of inspection: Weekly/Monthly [X] Post Storm [ ] Other [X]

B. Phase of Active Construction (*check all that apply*): Permit received 8/15/18 for in-water work. End 2018 Work
Facility operational, and maintenance of the facility continuing.

Pre Construction/installation of erosion/sediment controls	X	Clearing/Demo/Grading	X	Infrastructure/storm/roads	
Concrete pours		Vertical Construction/buildings		Utilities	
Offsite improvements		Site temporary stabilized		Final stabilization	

C. Questions:

1. Were all areas of construction and discharge points inspected? Yes X No ___
2. Did you observe the presence of suspended sediment, turbidity, discoloration, or oil sheen Yes ___ No X
   Was a water quality sample taken during inspection? (*refer to permit conditions S4 & S5*) Yes ___ No X
4. Was there a turbid discharge 250 NTU or greater, or Transparency 6 cm or less? * Yes ___ No ___
5. If yes to #4 was it reported to Ecology? Yes ___ No ___
6. Is pH sampling required? pH range required is 6.5 to 8.5. Yes ___ No X

If answering yes to a discharge, describe the event. Include when, where, and why it happened; what action was taken, and when.

_____

_____

_____

*If answering yes to # 4 record NTU/Transparency with continual sampling daily until turbidity is 25 NTU or less/ transparency is 33 cm or greater.

Sampling Results: Date: _____

Parameter	Method (circle one)	Result			Other/Note
		NTU	cm	pH	
Turbidity	tube, meter, laboratory				
pH	Paper, kit, meter				

D. Check the observed status of all items. Provide "Action Required "details and dates.

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
1 Clearing Limits	Before beginning land disturbing activities are all clearing limits, natural resource areas (streams, wetlands, buffers, trees) protected with barriers or similar BMPs? (high visibility recommended)	X					
2 Construction Access	Construction access is stabilized with quarry spalls or equivalent BMP to prevent sediment from being tracked onto roads?	X					
	Sediment tracked onto the road way was cleaned thoroughly at the end of the day or more frequent as necessary.			X			
3 Control Flow Rates	Are flow control measures installed to control stormwater volumes and velocity during construction and do they protect downstream properties and waterways from erosion?	X					
	If permanent infiltration ponds are used for flow control during construction, are they protected from siltation?			X			
4 Sediment Controls	All perimeter sediment controls (e.g. silt fence, wattles, compost socks, berms, etc.) installed, and maintained in accordance with the Stormwater Pollution Prevention Plan (SWPPP).		X				
	Sediment control BMPs (sediment ponds, traps, filters etc.) have been constructed and functional as the first step of grading.		X				
	Stormwater runoff from disturbed areas is directed to sediment removal BMP.			X			
5 Stabilize Soils	Have exposed un-worked soils been stabilized with effective BMP to prevent erosion and sediment deposition?		X				

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
5 Stabilize Soils Cont.	Are stockpiles stabilized from erosion, protected with sediment trapping measures and located away from drain inlet, waterways, and drainage channels?	X					
	Have soils been stabilized at the end of the shift, before a holiday or weekend if needed based on the weather forecast?			X			
6 Protect Slopes	Has stormwater and ground water been diverted away from slopes and disturbed areas with interceptor dikes, pipes and or swales?			X			
	Is off-site storm water managed separately from stormwater generated on the site?			X			
	Is excavated material placed on uphill side of trenches consistent with safety and space considerations?	X					
	Have check dams been placed at regular intervals within constructed channels that are cut down a slope?		X	X			See 6
7 Drain Inlets	Storm drain inlets made operable during construction are protected.	X					
	Are existing storm drains within the influence of the project protected?	X					
8 Stabilize Channel and Outlets	Have all on-site conveyance channels been designed, constructed and stabilized to prevent erosion from expected peak flows?			X			
	Is stabilization, including armoring material, adequate to prevent erosion of outlets, adjacent stream banks, slopes and downstream conveyance systems?	X					
9 Control Pollutants	Are waste materials and demolition debris handled and disposed of to prevent contamination of stormwater?			X			
	Has cover been provided for all chemicals, liquid products, petroleum products, and other material?			X			
	Has secondary containment been provided capable of containing 110% of the volume?	X					
	Were contaminated surfaces cleaned immediately after a spill incident?	X					
	Were BMPs used to prevent contamination of stormwater by a pH modifying sources?			X			

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
9 Cont.	Wheel wash wastewater is handled and disposed of properly.			X			
10 Control Dewatering	Concrete washout in designated areas. No washout or excess concrete on the ground.			X			
	Dewatering has been done to an approved source and in compliance with the SWPPP.	X		X			See 10
	Were there any clean non turbid dewatering discharges?			X			
11 Maintain BMP	Are all temporary and permanent erosion and sediment control BMPs maintained to perform as intended?	X					
12 Manage the Project	Has the project been phased to the maximum degree practicable?	X					
	Has regular inspection, monitoring and maintenance been performed as required by the permit?	X			Daily observation for most of week, no rain		
	Has the SWPPP been updated, implemented and records maintained?	X			Notes in field books maintained		
13 Protect LID	Is all Bioretention and Rain Garden Facilities protected from sedimentation with appropriate BMPs?	X					
	Is the Bioretention and Rain Garden protected against over compaction of construction equipment and foot traffic to retain its infiltration capabilities?	X					
	Permeable pavements are clean and free of sediment and sediment laden-water runoff. Muddy construction equipment has not been on the base material or pavement.			X			
	Have soiled permeable pavements been cleaned of sediments and pass infiltration test as required by stormwater manual methodology?			X			
	Heavy equipment has been kept off existing soils under LID facilities to retain infiltration rate.			X			

Check all areas that have been inspected. ✓

All in place BMPs [X] All disturbed soils [X] All concrete wash out area [ ] All material storage areas [X]
All discharge locations [X] All equipment storage areas [X] All construction entrances/exits [X]

Construction Stormwater Site Inspection Form

Elements checked "Action Required" (section D) describe corrective action to be taken. List the element number; be specific on location and work needed. Document, initial, and date when the corrective action has been completed and inspected.

Element #	Description and Location	Action Required	Completion Date	Initials
4 6 10	Upper landing and roads to intake and flood gate	Maintenance under progress.	2020 still	spg

Attach additional page if needed

Sign the following certification:

"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief"

Inspected by: (print) Steven Goodrich, PE (Signature) Steven P Goodrich Date: 9/16/2020

Title/Qualification of Inspector: CESCL & SWPPP designer

This information is restoration of field book and calendar notes for period before construction start in August 2018.

Program of operations and maintenance continues work surfaces as weather willing. The work to be done to address conditions found with site engineer handling all sediment and erosion control. Basics discussed for action during work.

No discharge observed by Thom and Corey visual inspection of shore found no point discharge except pond passing clear groundwater with check dams and wattle put in path.

Construction Stormwater Site Inspection Form

Project Name ELECTRON INTAKE Permit # WAR306648 Inspection Date 2/14/2020 Time _____

Name of Certified Erosion Sediment Control Lead (CESCL) or qualified inspector if *less than one acre*
Print Name: Steven P Goodrich PE

Approximate rainfall amount since the last inspection (in inches): _____

Approximate rainfall amount in the last 24 hours (in inches): _____

Current Weather Clear [X] Cloudy [ ] Mist [ ] Rain [ ] Wind [ ] Fog [ ]

A. Type of inspection: Weekly/Monthly [X] Post Storm [ ] Other [X]

B. Phase of Active Construction (*check all that apply*): Permit received 8/15/18 for in-water work. End 2018 Work **Facility operational, and maintenance of the facility continuing.**

Pre Construction/installation of erosion/sediment controls	X	Clearing/Demo/Grading	X	Infrastructure/storm/roads	
Concrete pours		Vertical Construction/buildings		Utilities	
Offsite improvements		Site temporary stabilized		Final stabilization	

C. Questions:

1. Were all areas of construction and discharge points inspected?	Yes X	No ___
2. Did you observe the presence of suspended sediment, turbidity, discoloration, or oil sheen	Yes ___	No X
3. Was a water quality sample taken during inspection? (*refer to permit conditions S4 & S5*)	Yes ___	No X
4. Was there a turbid discharge 250 NTU or greater, or Transparency 6 cm or less? *	Yes ___	No ___
5. If yes to #4 was it reported to Ecology?	Yes ___	No ___
6. Is pH sampling required? pH range required is 6.5 to 8.5.	Yes ___	No X

If answering yes to a discharge, describe the event. Include when, where, and why it happened; what action was taken, and when.

_____

_____

_____

*If answering yes to # 4 record NTU/Transparency with continual sampling daily until turbidity is 25 NTU or less/ transparency is 33 cm or greater.

Sampling Results: Date: _____

Parameter	Method (circle one)	Result			Other/Note
		NTU	cm	pH	
Turbidity	tube, meter, laboratory				
pH	Paper, kit, meter				

EH-USA001319

ED_005624_00000103-00086

D. Check the observed status of all items. Provide "Action Required "details and dates.

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
1 Clearing Limits	Before beginning land disturbing activities are all clearing limits, natural resource areas (streams, wetlands, buffers, trees) protected with barriers or similar BMPs? (high visibility recommended)	X					
2 Construction Access	Construction access is stabilized with quarry spalls or equivalent BMP to prevent sediment from being tracked onto roads?	X					
	Sediment tracked onto the road way was cleaned thoroughly at the end of the day or more frequent as necessary.			X			
3 Control Flow Rates	Are flow control measures installed to control stormwater volumes and velocity during construction and do they protect downstream properties and waterways from erosion?	X					
	If permanent infiltration ponds are used for flow control during construction, are they protected from siltation?			X			
4 Sediment Controls	All perimeter sediment controls (e.g. silt fence, wattles, compost socks, berms, etc.) installed, and maintained in accordance with the Stormwater Pollution Prevention Plan (SWPPP).		X				
	Sediment control BMPs (sediment ponds, traps, filters etc.) have been constructed and functional as the first step of grading.		X				
	Stormwater runoff from disturbed areas is directed to sediment removal BMP.			X			
5 Stabilize Soils	Have exposed un-worked soils been stabilized with effective BMP to prevent erosion and sediment deposition?		X				

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
5 Stabilize Soils Cont.	Are stockpiles stabilized from erosion, protected with sediment trapping measures and located away from drain inlet, waterways, and drainage channels?	X					
	Have soils been stabilized at the end of the shift, before a holiday or weekend if needed based on the weather forecast?			X			
6 Protect Slopes	Has stormwater and ground water been diverted away from slopes and disturbed areas with interceptor dikes, pipes and or swales?			X			
	Is off-site storm water managed separately from stormwater generated on the site?			X			
	Is excavated material placed on uphill side of trenches consistent with safety and space considerations?	X					
	Have check dams been placed at regular intervals within constructed channels that are cut down a slope?		X	X			See 6
7 Drain Inlets	Storm drain inlets made operable during construction are protected.	X					
	Are existing storm drains within the influence of the project protected?	X					
8 Stabilize Channel and Outlets	Have all on-site conveyance channels been designed, constructed and stabilized to prevent erosion from expected peak flows?			X			
	Is stabilization, including armoring material, adequate to prevent erosion of outlets, adjacent stream banks, slopes and downstream conveyance systems?	X					
9 Control Pollutants	Are waste materials and demolition debris handled and disposed of to prevent contamination of stormwater?			X			
	Has cover been provided for all chemicals, liquid products, petroleum products, and other material?			X			
	Has secondary containment been provided capable of containing 110% of the volume?	X					
	Were contaminated surfaces cleaned immediately after a spill incident?	X					
	Were BMPs used to prevent contamination of stormwater by a pH modifying sources?			X			

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
9 Cont.	Wheel wash wastewater is handled and disposed of properly.			X			
10 Control Dewatering	Concrete washout in designated areas. No washout or excess concrete on the ground.			X			
	Dewatering has been done to an approved source and in compliance with the SWPPP.	X		X			See 10
	Were there any clean non turbid dewatering discharges?			X			
11 Maintain BMP	Are all temporary and permanent erosion and sediment control BMPs maintained to perform as intended?	X					
12 Manage the Project	Has the project been phased to the maximum degree practicable?	X					
	Has regular inspection, monitoring and maintenance been performed as required by the permit?	X			Daily observation for most of week, no rain		
	Has the SWPPP been updated, implemented and records maintained?	X			Notes in field books maintained		
13 Protect LID	Is all Bioretention and Rain Garden Facilities protected from sedimentation with appropriate BMPs?	X					
	Is the Bioretention and Rain Garden protected against over compaction of construction equipment and foot traffic to retain its infiltration capabilities?	X					
	Permeable pavements are clean and free of sediment and sediment laden-water runoff. Muddy construction equipment has not been on the base material or pavement.			X			
	Have soiled permeable pavements been cleaned of sediments and pass infiltration test as required by stormwater manual methodology?			X			
	Heavy equipment has been kept off existing soils under LID facilities to retain infiltration rate.			X			

Check all areas that have been inspected. ✓

All in place BMPs [X] All disturbed soils [X] All concrete wash out area [ ] All material storage areas [X]
All discharge locations [X] All equipment storage areas [X] All construction entrances/exits [X]

Elements checked "Action Required" (section D) describe corrective action to be taken. List the element number; be specific on location and work needed. Document, initial, and date when the corrective action has been completed and inspected.

Element #	Description and Location	Action Required	Completion Date	Initials
4 6 10	Upper landing and roads to intake and flood gate	Maintenance under progress.	2020 still	spg

Attach additional page if needed

Sign the following certification:

"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief"

Inspected by: (print) Steven Goodrich, PE (Signature) Steven P Goodrich Date: 9/16/2020

Title/Qualification of Inspector: CESCL & SWPPP designer

This information is restoration of field book and calendar notes for period before construction start in August 2018.

Program of operations and maintenance continues work surfaces as weather willing. The work to be done to address conditions found with site engineer handling all sediment and erosion control. Basics discussed for action during work.

No discharge observed by Thom and Corey visual inspection of shore found no point discharge except pond passing clear groundwater with check dams and wattle put in path.

Construction Stormwater Site Inspection Form

Project Name **ELECTRON INTAKE** Permit # **WAR306648** Inspection Date **3/13/2020** Time _____

Name of Certified Erosion Sediment Control Lead (CESCL) or qualified inspector if *less than one acre*
Print Name: Steven P Goodrich PE

Approximate rainfall amount since the last inspection (in inches): _____

Approximate rainfall amount in the last 24 hours (in inches): _____

Current Weather Clear [X] Cloudy [ ] Mist [ ] Rain [ ] Wind [ ] Fog [ ]

A. Type of inspection: Weekly/Monthly [X] Post Storm [ ] Other [X]

B. Phase of Active Construction (*check all that apply*): Permit received 8/15/18 for in-water work. End 2018 Work
Facility operational, and maintenance of the facility continuing.

Pre Construction/installation of erosion/sediment controls	X	Clearing/Demo/Grading	X	Infrastructure/storm/roads	
Concrete pours		Vertical Construction/buildings		Utilities	
Offsite improvements		Site temporary stabilized		Final stabilization	

C. Questions:

1. Were all areas of construction and discharge points inspected?	Yes X	No ___
2. Did you observe the presence of suspended sediment, turbidity, discoloration, or oil sheen	Yes ___	No X
3. Was a water quality sample taken during inspection? (*refer to permit conditions S4 & S5*)	Yes ___	No X
4. Was there a turbid discharge 250 NTU or greater, or Transparency 6 cm or less? *	Yes ___	No ___
5. If yes to #4 was it reported to Ecology?	Yes ___	No ___
6. Is pH sampling required? pH range required is 6.5 to 8.5.	Yes ___	No X

If answering yes to a discharge, describe the event. Include when, where, and why it happened; what action was taken, and when.

_____

_____

_____

*If answering yes to # 4 record NTU/Transparency with continual sampling daily until turbidity is 25 NTU or less/ transparency is 33 cm or greater.

Sampling Results: Date: _____

Parameter	Method (circle one)	Result			Other/Note
		NTU	cm	pH	
Turbidity	tube, meter, laboratory				
pH	Paper, kit, meter				

EH-USA001324

ED_005624_00000103-00091

D. Check the observed status of all items. Provide "Action Required "details and dates.

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
1 Clearing Limits	Before beginning land disturbing activities are all clearing limits, natural resource areas (streams, wetlands, buffers, trees) protected with barriers or similar BMPs? (high visibility recommended)	X					
2 Construction Access	Construction access is stabilized with quarry spalls or equivalent BMP to prevent sediment from being tracked onto roads?	X					
	Sediment tracked onto the road way was cleaned thoroughly at the end of the day or more frequent as necessary.			X			
3 Control Flow Rates	Are flow control measures installed to control stormwater volumes and velocity during construction and do they protect downstream properties and waterways from erosion?	X					
	If permanent infiltration ponds are used for flow control during construction, are they protected from siltation?			X			
4 Sediment Controls	All perimeter sediment controls (e.g. silt fence, wattles, compost socks, berms, etc.) installed, and maintained in accordance with the Stormwater Pollution Prevention Plan (SWPPP).		X				
	Sediment control BMPs (sediment ponds, traps, filters etc.) have been constructed and functional as the first step of grading.		X				
	Stormwater runoff from disturbed areas is directed to sediment removal BMP.			X			
5 Stabilize Soils	Have exposed un-worked soils been stabilized with effective BMP to prevent erosion and sediment deposition?		X				

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
5 Stabilize Soils Cont.	Are stockpiles stabilized from erosion, protected with sediment trapping measures and located away from drain inlet, waterways, and drainage channels?	X					
	Have soils been stabilized at the end of the shift, before a holiday or weekend if needed based on the weather forecast?			X			
6 Protect Slopes	Has stormwater and ground water been diverted away from slopes and disturbed areas with interceptor dikes, pipes and or swales?			X			
	Is off-site storm water managed separately from stormwater generated on the site?			X			
	Is excavated material placed on uphill side of trenches consistent with safety and space considerations?	X					
	Have check dams been placed at regular intervals within constructed channels that are cut down a slope?		X	X			See 6
7 Drain Inlets	Storm drain inlets made operable during construction are protected.	X					
	Are existing storm drains within the influence of the project protected?	X					
8 Stabilize Channel and Outlets	Have all on-site conveyance channels been designed, constructed and stabilized to prevent erosion from expected peak flows?			X			
	Is stabilization, including armoring material, adequate to prevent erosion of outlets, adjacent stream banks, slopes and downstream conveyance systems?	X					
9 Control Pollutants	Are waste materials and demolition debris handled and disposed of to prevent contamination of stormwater?			X			
	Has cover been provided for all chemicals, liquid products, petroleum products, and other material?			X			
	Has secondary containment been provided capable of containing 110% of the volume?	X					
	Were contaminated surfaces cleaned immediately after a spill incident?	X					
	Were BMPs used to prevent contamination of stormwater by a pH modifying sources?			X			

EH-USA001326

ED_005624_00000103-00093

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
9 Cont.	Wheel wash wastewater is handled and disposed of properly.			X			
10 Control Dewatering	Concrete washout in designated areas. No washout or excess concrete on the ground.			X			
	Dewatering has been done to an approved source and in compliance with the SWPPP.	X		X			See 10
	Were there any clean non turbid dewatering discharges?			X			
11 Maintain BMP	Are all temporary and permanent erosion and sediment control BMPs maintained to perform as intended?	X					
12 Manage the Project	Has the project been phased to the maximum degree practicable?	X					
	Has regular inspection, monitoring and maintenance been performed as required by the permit?	X			Daily observation for most of week, no rain		
	Has the SWPPP been updated, implemented and records maintained?	X			Notes in field books maintained		
13 Protect LID	Is all Bioretention and Rain Garden Facilities protected from sedimentation with appropriate BMPs?	X					
	Is the Bioretention and Rain Garden protected against over compaction of construction equipment and foot traffic to retain its infiltration capabilities?	X					
	Permeable pavements are clean and free of sediment and sediment laden-water runoff. Muddy construction equipment has not been on the base material or pavement.			X			
	Have soiled permeable pavements been cleaned of sediments and pass infiltration test as required by stormwater manual methodology?			X			
	Heavy equipment has been kept off existing soils under LID facilities to retain infiltration rate.			X			

Check all areas that have been inspected. ✓

All in place BMPs [X] All disturbed soils [X] All concrete wash out area [ ] All material storage areas [X]
All discharge locations [X] All equipment storage areas [X] All construction entrances/exits [X]

F. Elements checked "Action Required" (section D) describe corrective action to be taken. List the element number; be specific on location and work needed. Document, initial, and date when the corrective action has been completed and inspected.

Element #	Description and Location	Action Required	Completion Date	Initials
4 6 10	Upper landing and roads to intake and flood gate	Maintenance under progress.	2020 still	spg

Attach additional page if needed

Sign the following certification:

"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief"

Inspected by: (print) Steven Goodrich, PE (Signature) Steven P Goodrich Date: 9/16/2020

Title/Qualification of Inspector: CESCL & SWPPP designer

This information is restoration of field book and calendar notes for period before construction start in August 2018.

Program of operations and maintenance continues work surfaces as weather willing. The work to be done to address conditions found with site engineer handling all sediment and erosion control. Basics discussed for action during work.
No discharge observed by Thom and visual inspection of shore found no point discharge except pond passing clear groundwater with check dams and wattle put in path.

Construction Stormwater Site Inspection Form

Project Name **ELECTRON INTAKE** Permit # **WAR306648** Inspection Date **4/14/2020** Time _____

Name of Certified Erosion Sediment Control Lead (CESCL) or qualified inspector if *less than one acre*
Print Name: Steven P Goodrich PE

Approximate rainfall amount since the last inspection (in inches): _____

Approximate rainfall amount in the last 24 hours (in inches): _____

Current Weather Clear [X] Cloudy [ ] Mist [ ] Rain [ ] Wind [ ] Fog [ ]

A. Type of inspection: Weekly/Monthly [X] Post Storm [ ] Other [X]

B. Phase of Active Construction (*check all that apply*): Permit received 8/15/18 for in-water work. End 2018 Work **Facility operational, and maintenance of the facility continuing.**

Pre Construction/installation of erosion/sediment controls	X	Clearing/Demo/Grading	X	Infrastructure/storm/roads	
Concrete pours		Vertical Construction/buildings		Utilities	
Offsite improvements		Site temporary stabilized		Final stabilization	

C. Questions:

1. Were all areas of construction and discharge points inspected?	Yes X	No ___
2. Did you observe the presence of suspended sediment, turbidity, discoloration, or oil sheen	Yes ___	No X
3. Was a water quality sample taken during inspection? (*refer to permit conditions S4 & S5*)	Yes ___	No X
4. Was there a turbid discharge 250 NTU or greater, or Transparency 6 cm or less? *	Yes ___	No ___
5. If yes to #4 was it reported to Ecology?	Yes ___	No ___
6. Is pH sampling required? pH range required is 6.5 to 8.5.	Yes ___	No X

If answering yes to a discharge, describe the event. Include when, where, and why it happened; what action was taken, and when.

_____

_____

_____

*If answering yes to # 4 record NTU/Transparency with continual sampling daily until turbidity is 25 NTU or less/ transparency is 33 cm or greater.

Sampling Results: Date: _____

Parameter	Method (circle one)	Result			Other/Note
		NTU	cm	pH	
Turbidity	tube, meter, laboratory				
pH	Paper, kit, meter				

EH-USA001329

ED_005624_00000103-00096

D. Check the observed status of all items. Provide "Action Required "details and dates.

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
1 Clearing Limits	Before beginning land disturbing activities are all clearing limits, natural resource areas (streams, wetlands, buffers, trees) protected with barriers or similar BMPs? (high visibility recommended)	X					
2 Construction Access	Construction access is stabilized with quarry spalls or equivalent BMP to prevent sediment from being tracked onto roads?	X					
	Sediment tracked onto the road way was cleaned thoroughly at the end of the day or more frequent as necessary.			X			
3 Control Flow Rates	Are flow control measures installed to control stormwater volumes and velocity during construction and do they protect downstream properties and waterways from erosion?	X					
	If permanent infiltration ponds are used for flow control during construction, are they protected from siltation?			X			
4 Sediment Controls	All perimeter sediment controls (e.g. silt fence, wattles, compost socks, berms, etc.) installed, and maintained in accordance with the Stormwater Pollution Prevention Plan (SWPPP).		X				
	Sediment control BMPs (sediment ponds, traps, filters etc.) have been constructed and functional as the first step of grading.		X				
	Stormwater runoff from disturbed areas is directed to sediment removal BMP.			X			
5 Stabilize Soils	Have exposed un-worked soils been stabilized with effective BMP to prevent erosion and sediment deposition?		X				

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
5 Stabilize Soils Cont.	Are stockpiles stabilized from erosion, protected with sediment trapping measures and located away from drain inlet, waterways, and drainage channels?	X					
	Have soils been stabilized at the end of the shift, before a holiday or weekend if needed based on the weather forecast?			X			
6 Protect Slopes	Has stormwater and ground water been diverted away from slopes and disturbed areas with interceptor dikes, pipes and or swales?			X			
	Is off-site storm water managed separately from stormwater generated on the site?			X			
	Is excavated material placed on uphill side of trenches consistent with safety and space considerations?	X					
	Have check dams been placed at regular intervals within constructed channels that are cut down a slope?		X	X			See 6
7 Drain Inlets	Storm drain inlets made operable during construction are protected.	X					
	Are existing storm drains within the influence of the project protected?	X					
8 Stabilize Channel and Outlets	Have all on-site conveyance channels been designed, constructed and stabilized to prevent erosion from expected peak flows?			X			
	Is stabilization, including armoring material, adequate to prevent erosion of outlets, adjacent stream banks, slopes and downstream conveyance systems?	X					
9 Control Pollutants	Are waste materials and demolition debris handled and disposed of to prevent contamination of stormwater?			X			
	Has cover been provided for all chemicals, liquid products, petroleum products, and other material?			X			
	Has secondary containment been provided capable of containing 110% of the volume?	X					
	Were contaminated surfaces cleaned immediately after a spill incident?	X					
	Were BMPs used to prevent contamination of stormwater by a pH modifying sources?			X			To be added.

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
9 Cont.	Wheel wash wastewater is handled and disposed of properly.			X			
10 Control Dewatering	Concrete washout in designated areas. No washout or excess concrete on the ground.			X			To be added for patch plant.
	Dewatering has been done to an approved source and in compliance with the SWPPP.	X		X			See 10
	Were there any clean non turbid dewatering discharges?			X			
11 Maintain BMP	Are all temporary and permanent erosion and sediment control BMPs maintained to perform as intended?	X					
12 Manage the Project	Has the project been phased to the maximum degree practicable?	X					
	Has regular inspection, monitoring and maintenance been performed as required by the permit?	X			Daily observation for most of week, no rain		
	Has the SWPPP been updated, implemented and records maintained?	X			Notes in field books maintained		
13 Protect LID	Is all Bioretention and Rain Garden Facilities protected from sedimentation with appropriate BMPs?	X					
	Is the Bioretention and Rain Garden protected against over compaction of construction equipment and foot traffic to retain its infiltration capabilities?	X					
	Permeable pavements are clean and free of sediment and sediment laden-water runoff. Muddy construction equipment has not been on the base material or pavement.			X			
	Have soiled permeable pavements been cleaned of sediments and pass infiltration test as required by stormwater manual methodology?			X			
	Heavy equipment has been kept off existing soils under LID facilities to retain infiltration rate.			X			

Check all areas that have been inspected. ✓

All in place BMPs [X] All disturbed soils [X] All concrete wash out area [ ] All material storage areas [X]

Construction Stormwater Site Inspection Form

All discharge locations [X] All equipment storage areas [X] All construction entrances/exits [X]

F. Elements checked "Action Required" (section D) describe corrective action to be taken. List the element number; be specific on location and work needed. Document, initial, and date when the corrective action has been completed and inspected.

Element #	Description and Location	Action Required	Completion Date	Initials
4 6 10	Upper landing and roads to intake and flood gate	Maintenance under progress.	2020 still	spg

Attach additional page if needed

Sign the following certification:

"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief"

Inspected by: (print) Steven Goodrich, PE (Signature) Steven P Goodrich Date: 9/16/2020

Title/Qualification of Inspector: CESCL & SWPPP designer

This information is restoration of field book and calendar notes for period before construction start in August 2018.

Work slowed down due to pandemic.
Program of operations and maintenance continues work surfaces as weather willing. The work to be done to address conditions found with site engineer handling all sediment and erosion control. Basics discussed for action during work.
No discharge observed by Thom and Corey.

Construction Stormwater Site Inspection Form

Project Name **ELECTRON INTAKE** Permit # **WAR306648** Inspection Date **5/14/2020** Time _____

Name of Certified Erosion Sediment Control Lead (CESCL) or qualified inspector if *less than one acre*
Print Name: Steven P Goodrich PE & Corey Kleppe

Approximate rainfall amount since the last inspection (in inches): _____

Approximate rainfall amount in the last 24 hours (in inches): _____

Current Weather Clear [X] Cloudy [ ] Mist [ ] Rain [ ] Wind [ ] Fog [ ]

A. Type of inspection: Weekly/Monthly [X] Post Storm [ ] Other [X]

B. Phase of Active Construction (*check all that apply*): Permit received 8/15/18 for in-water work. End 2018 Work
Facility operational, and maintenance of the facility continuing.

Pre Construction/installation of erosion/sediment controls	X	Clearing/Demo/Grading	X	Infrastructure/storm/roads	
Concrete pours		Vertical Construction/buildings		Utilities	
Offsite improvements		Site temporary stabilized		Final stabilization	

C. Questions:

1. Were all areas of construction and discharge points inspected? Yes X No ___
2. Did you observe the presence of suspended sediment, turbidity, discoloration, or oil sheen Yes ___ No X
3. Was a water quality sample taken during inspection? (*refer to permit conditions S4 & S5*) Yes ___ No X
4. Was there a turbid discharge 250 NTU or greater, or Transparency 6 cm or less? * Yes ___ No ___
5. If yes to #4 was it reported to Ecology? Yes ___ No ___
6. Is pH sampling required? pH range required is 6.5 to 8.5. Yes ___ No X

If answering yes to a discharge, describe the event. Include when, where, and why it happened; what action was taken, and when.

_____

_____

_____

*If answering yes to # 4 record NTU/Transparency with continual sampling daily until turbidity is 25 NTU or less/ transparency is 33 cm or greater.

Sampling Results: Date: _____

Parameter	Method (circle one)	Result			Other/Note
		NTU	cm	pH	
Turbidity	tube, meter, laboratory				
pH	Paper, kit, meter				

EH-USA001334

ED_005624_00000103-00101

D. Check the observed status of all items. Provide "Action Required "details and dates.

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
1 Clearing Limits	Before beginning land disturbing activities are all clearing limits, natural resource areas (streams, wetlands, buffers, trees) protected with barriers or similar BMPs? (high visibility recommended)	X					
2 Construction Access	Construction access is stabilized with quarry spalls or equivalent BMP to prevent sediment from being tracked onto roads?	X					
	Sediment tracked onto the road way was cleaned thoroughly at the end of the day or more frequent as necessary.			X			
3 Control Flow Rates	Are flow control measures installed to control stormwater volumes and velocity during construction and do they protect downstream properties and waterways from erosion?	X					
	If permanent infiltration ponds are used for flow control during construction, are they protected from siltation?			X			
4 Sediment Controls	All perimeter sediment controls (e.g. silt fence, wattles, compost socks, berms, etc.) installed, and maintained in accordance with the Stormwater Pollution Prevention Plan (SWPPP).		X				
	Sediment control BMPs (sediment ponds, traps, filters etc.) have been constructed and functional as the first step of grading.		X				
	Stormwater runoff from disturbed areas is directed to sediment removal BMP.			X			
5 Stabilize Soils	Have exposed un-worked soils been stabilized with effective BMP to prevent erosion and sediment deposition?		X				

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
5 Stabilize Soils Cont.	Are stockpiles stabilized from erosion, protected with sediment trapping measures and located away from drain inlet, waterways, and drainage channels?	X					
	Have soils been stabilized at the end of the shift, before a holiday or weekend if needed based on the weather forecast?			X			
6 Protect Slopes	Has stormwater and ground water been diverted away from slopes and disturbed areas with interceptor dikes, pipes and or swales?			X			
	Is off-site storm water managed separately from stormwater generated on the site?			X			
	Is excavated material placed on uphill side of trenches consistent with safety and space considerations?	X					
	Have check dams been placed at regular intervals within constructed channels that are cut down a slope?		X	X			See 6
7 Drain Inlets	Storm drain inlets made operable during construction are protected.	X					
	Are existing storm drains within the influence of the project protected?	X					
8 Stabilize Channel and Outlets	Have all on-site conveyance channels been designed, constructed and stabilized to prevent erosion from expected peak flows?			X			
	Is stabilization, including armoring material, adequate to prevent erosion of outlets, adjacent stream banks, slopes and downstream conveyance systems?	X					
9 Control Pollutants	Are waste materials and demolition debris handled and disposed of to prevent contamination of stormwater?			X			
	Has cover been provided for all chemicals, liquid products, petroleum products, and other material?			X			
	Has secondary containment been provided capable of containing 110% of the volume?	X					
	Were contaminated surfaces cleaned immediately after a spill incident?	X					
	Were BMPs used to prevent contamination of stormwater by a pH modifying sources?			X			To be added.

EH-USA001336

ED_005624_00000103-00103

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
9 Cont.	Wheel wash wastewater is handled and disposed of properly.			X			
10 Control Dewatering	Concrete washout in designated areas. No washout or excess concrete on the ground.			X			To be added for patch plant.
	Dewatering has been done to an approved source and in compliance with the SWPPP.	X		X			See 10
	Were there any clean non turbid dewatering discharges?			X			
11 Maintain BMP	Are all temporary and permanent erosion and sediment control BMPs maintained to perform as intended?	X					
12 Manage the Project	Has the project been phased to the maximum degree practicable?	X					
	Has regular inspection, monitoring and maintenance been performed as required by the permit?	X			Daily observation for most of week, no rain		
	Has the SWPPP been updated, implemented and records maintained?	X			Notes in field books maintained		
13 Protect LID	Is all Bioretention and Rain Garden Facilities protected from sedimentation with appropriate BMPs?	X					
	Is the Bioretention and Rain Garden protected against over compaction of construction equipment and foot traffic to retain its infiltration capabilities?	X					
	Permeable pavements are clean and free of sediment and sediment laden-water runoff. Muddy construction equipment has not been on the base material or pavement.			X			
	Have soiled permeable pavements been cleaned of sediments and pass infiltration test as required by stormwater manual methodology?			X			
	Heavy equipment has been kept off existing soils under LID facilities to retain infiltration rate.			X			

Check all areas that have been inspected. ✓

All in place BMPs [X] All disturbed soils [X] All concrete wash out area [ ] All material storage areas [X]

Construction Stormwater Site Inspection Form

All discharge locations [X] All equipment storage areas [X] All construction entrances/exits [X]

Elements checked "Action Required" (section D) describe corrective action to be taken. List the element number; be specific on location and work needed. Document, initial, and date when the corrective action has been completed and inspected.

Element #	Description and Location	Action Required	Completion Date	Initials
4 6 10	Upper landing and roads to intake and flood gate	Maintenance under progress.	2020 still	spg
	Manhole on flume ditch	Pond created needs to be stabilized and the manhole need inlet protection when finished with regrading area.		

Attach additional page if needed

Sign the following certification:

"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief"

Inspected by: (print) Steven Goodrich, PE (Signature) Steven P Goodrich Date: 9/16/2020

Title/Qualification of Inspector: CESCL & SWPPP designer

This information is restoration of field book and calendar notes for period before construction start in August 2018.

Work slowed down due to pandemic. Work to progress till in water work observations are being made daily for old SWPPP as new one is formed to reflect the new site conditions.
Ditch upstream of flume graded into nice Vee shape and wall water entering infiltrating before manhole at bottom.
No discharge observed by Thom and Corey.

EH-USA001338

ED_005624_00000103-00105

Construction Stormwater Site Inspection Form

Project Name **ELECTRON INTAKE** Permit # **WAR306648** Inspection Date **07/17/2020** Time _____

Name of Certified Erosion Sediment Control Lead (CESCL) or qualified inspector if *less than one acre*
Print Name: Steven P Goodrich PE & Corey Kleppe

Approximate rainfall amount since the last inspection (in inches): _____

Approximate rainfall amount in the last 24 hours (in inches): _____

Current Weather Clear [X] Cloudy [ ] Mist [ ] Rain [ ] Wind [ ] Fog [ ]

A. Type of inspection: Weekly/Monthly [X] Post Storm [ ] Other [X]

B. Phase of Active Construction (*check all that apply*): Permit received 8/15/18 for in-water work. End 2018 Work
Facility operational, and maintenance of the facility continuing.

Pre Construction/installation of erosion/sediment controls	X	Clearing/Demo/Grading	X	Infrastructure/storm/roads	
Concrete pours		Vertical Construction/buildings		Utilities	
Offsite improvements		Site temporary stabilized		Final stabilization	

C. Questions:

1. Were all areas of construction and discharge points inspected?	Yes X	No ___
2. Did you observe the presence of suspended sediment, turbidity, discoloration, or oil sheen	Yes ___	No X
3. Was a water quality sample taken during inspection? (*refer to permit conditions S4 & S5*)	Yes ___	No X
4. Was there a turbid discharge 250 NTU or greater, or Transparency 6 cm or less? *	Yes ___	No ___
5. If yes to #4 was it reported to Ecology?	Yes ___	No ___
6. Is pH sampling required? pH range required is 6.5 to 8.5.	Yes ___	No X

If answering yes to a discharge, describe the event. Include when, where, and why it happened; what action was taken, and when.

_____

_____

_____

*If answering yes to # 4 record NTU/Transparency with continual sampling daily until turbidity is 25 NTU or less/ transparency is 33 cm or greater.

Sampling Results: Date: _____

Parameter	Method (circle one)	Result			Other/Note
		NTU	cm	pH	
Turbidity	tube, meter, laboratory				
pH	Paper, kit, meter				

EH-USA001339

ED_005624_00000103-00106

D. Check the observed status of all items. Provide "Action Required "details and dates.

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
1 Clearing Limits	Before beginning land disturbing activities are all clearing limits, natural resource areas (streams, wetlands, buffers, trees) protected with barriers or similar BMPs? (high visibility recommended)	X					
2 Construction Access	Construction access is stabilized with quarry spalls or equivalent BMP to prevent sediment from being tracked onto roads?	X					
	Sediment tracked onto the road way was cleaned thoroughly at the end of the day or more frequent as necessary.			X			
3 Control Flow Rates	Are flow control measures installed to control stormwater volumes and velocity during construction and do they protect downstream properties and waterways from erosion?	X					
	If permanent infiltration ponds are used for flow control during construction, are they protected from siltation?			X			
4 Sediment Controls	All perimeter sediment controls (e.g. silt fence, wattles, compost socks, berms, etc.) installed, and maintained in accordance with the Stormwater Pollution Prevention Plan (SWPPP).		X				
	Sediment control BMPs (sediment ponds, traps, filters etc.) have been constructed and functional as the first step of grading.		X				
	Stormwater runoff from disturbed areas is directed to sediment removal BMP.			X			
5 Stabilize Soils	Have exposed un-worked soils been stabilized with effective BMP to prevent erosion and sediment deposition?		X				

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
5 Stabilize Soils Cont.	Are stockpiles stabilized from erosion, protected with sediment trapping measures and located away from drain inlet, waterways, and drainage channels?	X					
	Have soils been stabilized at the end of the shift, before a holiday or weekend if needed based on the weather forecast?			X			
6 Protect Slopes	Has stormwater and ground water been diverted away from slopes and disturbed areas with interceptor dikes, pipes and or swales?			X			
	Is off-site storm water managed separately from stormwater generated on the site?			X			
	Is excavated material placed on uphill side of trenches consistent with safety and space considerations?	X					
	Have check dams been placed at regular intervals within constructed channels that are cut down a slope?		X	X			See 6
7 Drain Inlets	Storm drain inlets made operable during construction are protected.	X					
	Are existing storm drains within the influence of the project protected?	X					
8 Stabilize Channel and Outlets	Have all on-site conveyance channels been designed, constructed and stabilized to prevent erosion from expected peak flows?			X			
	Is stabilization, including armoring material, adequate to prevent erosion of outlets, adjacent stream banks, slopes and downstream conveyance systems?	X					
9 Control Pollutants	Are waste materials and demolition debris handled and disposed of to prevent contamination of stormwater?			X			
	Has cover been provided for all chemicals, liquid products, petroleum products, and other material?			X			
	Has secondary containment been provided capable of containing 110% of the volume?	X					
	Were contaminated surfaces cleaned immediately after a spill incident?	X					
	Were BMPs used to prevent contamination of stormwater by a pH modifying sources?			X			To be added. Once it is known

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
9 Cont.	Wheel wash wastewater is handled and disposed of properly.			X			
10 Control Dewatering	Concrete washout in designated areas. No washout or excess concrete on the ground.			X			To be added for patch plant.
	Dewatering has been done to an approved source and in compliance with the SWPPP.	X		X			See 10
	Were there any clean non turbid dewatering discharges?			X			
11 Maintain BMP	Are all temporary and permanent erosion and sediment control BMPs maintained to perform as intended?	X					
12 Manage the Project	Has the project been phased to the maximum degree practicable?	X					
	Has regular inspection, monitoring and maintenance been performed as required by the permit?	X			Daily observation for most of week, no rain		
	Has the SWPPP been updated, implemented and records maintained?	X			Notes in field books maintained		
13 Protect LID	Is all Bioretention and Rain Garden Facilities protected from sedimentation with appropriate BMPs?	X					
	Is the Bioretention and Rain Garden protected against over compaction of construction equipment and foot traffic to retain its infiltration capabilities?	X					
	Permeable pavements are clean and free of sediment and sediment laden-water runoff. Muddy construction equipment has not been on the base material or pavement.			X			
	Have soiled permeable pavements been cleaned of sediments and pass infiltration test as required by stormwater manual methodology?			X			
	Heavy equipment has been kept off existing soils under LID facilities to retain infiltration rate.			X			

Check all areas that have been inspected. ✓

All in place BMPs [X] All disturbed soils [X] All concrete wash out area [ ] All material storage areas [X]

Construction Stormwater Site Inspection Form

All discharge locations [X] All equipment storage areas [X] All construction entrances/exits [X]

F. Elements checked "Action Required" (section D) describe corrective action to be taken. List the element number; be specific on location and work needed. Document, initial, and date when the corrective action has been completed and inspected.

Element #	Description and Location	Action Required	Completion Date	Initials
4 6 10	Upper landing and roads to intake and flood gate	Maintenance under progress.	2020 still	spg

Attach additional page if needed

Sign the following certification:

"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief"

Inspected by: (print) Steven Goodrich, PE (Signature) Steven P Goodrich Date: 9/16/2020

Title/Qualification of Inspector: CESCL & SWPPP designer

This information is restoration of field book and calendar notes for period before construction start in August 2018.

In water work to start and staging is in progress. Maintenance still being done on old roadbed .nd gravel ditch uphill of flume is large Vee shape has been changed to allow forms to be stored, all water still infiltrating. (Water is from flume sides and jumps over the top). Work to progress till in water work. Observations are being made daily for discharge and erosion. Site work is still being done. Stabilize the park side slopes and clean rock is visible on top and on all roads.

No discharge observed by Thom and Corey.

EH-USA001343

ED_005624_00000103-00110

Construction Stormwater Site Inspection Form

Project Name **ELECTRON INTAKE** Permit # **WAR306648** Inspection Date **07/08/2020** Time _____

Name of Certified Erosion Sediment Control Lead (CESCL) or qualified inspector if *less than one acre*
Print Name: Steven P Goodrich PE & Corey Kleppe

Approximate rainfall amount since the last inspection (in inches): _____

Approximate rainfall amount in the last 24 hours (in inches): _____

Current Weather Clear [X] Cloudy [ ] Mist [ ] Rain [ ] Wind [ ] Fog [ ]

A. Type of inspection: Weekly/Monthly [X] Post Storm [ ] Other [X]

B. Phase of Active Construction (*check all that apply*): Permit received 8/15/18 for in-water work. End 2018 Work **Facility operational, and maintenance of the facility continuing.**

Pre Construction/installation of erosion/sediment controls	X	Clearing/Demo/Grading	X	Infrastructure/storm/roads	
Concrete pours		Vertical Construction/buildings		Utilities	
Offsite improvements		Site temporary stabilized		Final stabilization	

C. Questions:

1. Were all areas of construction and discharge points inspected?	Yes X	No ___
2. Did you observe the presence of suspended sediment, turbidity, discoloration, or oil sheen	Yes ___	No X
3. Was a water quality sample taken during inspection? (*refer to permit conditions S4 & S5*)	Yes ___	No X
4. Was there a turbid discharge 250 NTU or greater, or Transparency 6 cm or less? *	Yes ___	No ___
5. If yes to #4 was it reported to Ecology?	Yes ___	No ___
6. Is pH sampling required? pH range required is 6.5 to 8.5.	Yes ___	No X

If answering yes to a discharge, describe the event. Include when, where, and why it happened; what action was taken, and when.

_____

_____

_____

*If answering yes to # 4 record NTU/Transparency with continual sampling daily until turbidity is 25 NTU or less/ transparency is 33 cm or greater.

Sampling Results: Date: _____

Parameter	Method (circle one)	Result			Other/Note
		NTU	cm	pH	
Turbidity	tube, meter, laboratory				
pH	Paper, kit, meter				

D. Check the observed status of all items. Provide "Action Required "details and dates.

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
1 Clearing Limits	Before beginning land disturbing activities are all clearing limits, natural resource areas (streams, wetlands, buffers, trees) protected with barriers or similar BMPs? (high visibility recommended)	X					
2 Construction Access	Construction access is stabilized with quarry spalls or equivalent BMP to prevent sediment from being tracked onto roads?	X					
	Sediment tracked onto the road way was cleaned thoroughly at the end of the day or more frequent as necessary.			X			
3 Control Flow Rates	Are flow control measures installed to control stormwater volumes and velocity during construction and do they protect downstream properties and waterways from erosion?	X					
	If permanent infiltration ponds are used for flow control during construction, are they protected from siltation?			X			
4 Sediment Controls	All perimeter sediment controls (e.g. silt fence, wattles, compost socks, berms, etc.) installed, and maintained in accordance with the Stormwater Pollution Prevention Plan (SWPPP).		X				
	Sediment control BMPs (sediment ponds, traps, filters etc.) have been constructed and functional as the first step of grading.		X				
	Stormwater runoff from disturbed areas is directed to sediment removal BMP.			X			
5 Stabilize Soils	Have exposed un-worked soils been stabilized with effective BMP to prevent erosion and sediment deposition?		X				

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
5 Stabilize Soils Cont.	Are stockpiles stabilized from erosion, protected with sediment trapping measures and located away from drain inlet, waterways, and drainage channels?	X					
	Have soils been stabilized at the end of the shift, before a holiday or weekend if needed based on the weather forecast?			X			
6 Protect Slopes	Has stormwater and ground water been diverted away from slopes and disturbed areas with interceptor dikes, pipes and or swales?			X			
	Is off-site storm water managed separately from stormwater generated on the site?			X			
	Is excavated material placed on uphill side of trenches consistent with safety and space considerations?	X					
	Have check dams been placed at regular intervals within constructed channels that are cut down a slope?		X	X			See 6
7 Drain Inlets	Storm drain inlets made operable during construction are protected.	X					
	Are existing storm drains within the influence of the project protected?	X					
8 Stabilize Channel and Outlets	Have all on-site conveyance channels been designed, constructed and stabilized to prevent erosion from expected peak flows?			X			
	Is stabilization, including armoring material, adequate to prevent erosion of outlets, adjacent stream banks, slopes and downstream conveyance systems?	X					
9 Control Pollutants	Are waste materials and demolition debris handled and disposed of to prevent contamination of stormwater?			X			
	Has cover been provided for all chemicals, liquid products, petroleum products, and other material?			X			
	Has secondary containment been provided capable of containing 110% of the volume?	X					
	Were contaminated surfaces cleaned immediately after a spill incident?	X					
	Were BMPs used to prevent contamination of stormwater by a pH modifying sources?			X			To be added. Once it is known

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
9 Cont.	Wheel wash wastewater is handled and disposed of properly.			X			
10 Control Dewatering	Concrete washout in designated areas. No washout or excess concrete on the ground.			X			To be added for patch plant.
	Dewatering has been done to an approved source and in compliance with the SWPPP.	X		X			See 10
	Were there any clean non turbid dewatering discharges?			X			
11 Maintain BMP	Are all temporary and permanent erosion and sediment control BMPs maintained to perform as intended?	X					
12 Manage the Project	Has the project been phased to the maximum degree practicable?	X					
	Has regular inspection, monitoring and maintenance been performed as required by the permit?	X			Daily observation for most of week, no rain		
	Has the SWPPP been updated, implemented and records maintained?	X			Notes in field books maintained		
13 Protect LID	Is all Bioretention and Rain Garden Facilities protected from sedimentation with appropriate BMPs?	X					
	Is the Bioretention and Rain Garden protected against over compaction of construction equipment and foot traffic to retain its infiltration capabilities?	X					
	Permeable pavements are clean and free of sediment and sediment laden-water runoff. Muddy construction equipment has not been on the base material or pavement.			X			
	Have soiled permeable pavements been cleaned of sediments and pass infiltration test as required by stormwater manual methodology?			X			
	Heavy equipment has been kept off existing soils under LID facilities to retain infiltration rate.			X			

Check all areas that have been inspected. ✓

All in place BMPs [X] All disturbed soils [X] All concrete wash out area [ ] All material storage areas [X]

Construction Stormwater Site Inspection Form

All discharge locations [X] All equipment storage areas [X] All construction entrances/exits [X]

F. Elements checked "Action Required" (section D) describe corrective action to be taken. List the element number; be specific on location and work needed. Document, initial, and date when the corrective action has been completed and inspected.

Element #	Description and Location	Action Required	Completion Date	Initials
4 6 10	Upper landing and roads to intake and flood gate	Maintenance under progress.	2020 still	spg

Attach additional page if needed

Sign the following certification:

"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief"

Inspected by: (print) Steven Goodrich, PE (Signature) Steven P Goodrich Date: 9/16/2020

Title/Qualification of Inspector: CESCL & SWPPP designer

This information is restoration of field book and calendar notes for period before construction start in August 2018.

In water work to start and staging is in progress. Maintenance still being done on old roadbed and gravel ditch uphill of flume is large Vee shape has been changed to allow forms to be stored, all water still infiltrating. (Water is from flume sides and jumps over the top). Work to progress till in water work. Observations are being made daily for discharge and erosion. Site work is still being done. Stabilize the park side slopes and clean rock is visible on top and on all roads.

No discharge observed by Thom and Corey.

EH-USA001348

ED_005624_00000103-00115

Construction Stormwater Site Inspection Form

Project Name **ELECTRON INTAKE** Permit # **WAR306648** Inspection Date **07/15/2020** Time _____

Name of Certified Erosion Sediment Control Lead (CESCL) or qualified inspector if *less than one acre*
Print Name: Steven P Goodrich PE & Corey Kleppe

Approximate rainfall amount since the last inspection (in inches): _____

Approximate rainfall amount in the last 24 hours (in inches): _____

Current Weather Clear [X] Cloudy [ ] Mist [ ] Rain [ ] Wind [ ] Fog [ ]

A. Type of inspection: Weekly/Monthly [X] Post Storm [ ] Other [X]

B. Phase of Active Construction (*check all that apply*): Permit received 8/15/18 for in-water work. End 2018 Work **Facility operational, and maintenance of the facility continuing.**

Pre Construction/installation of erosion/sediment controls	X	Clearing/Demo/Grading	X	Infrastructure/storm/roads	
Concrete pours		Vertical Construction/buildings		Utilities	
Offsite improvements		Site temporary stabilized		Final stabilization	

C. Questions:

1. Were all areas of construction and discharge points inspected? Yes X No ___
2. Did you observe the presence of suspended sediment, turbidity, discoloration, or oil sheen Yes ___ No X
   Was a water quality sample taken during inspection? (*refer to permit conditions S4 & S5*) Yes ___ No X
4. Was there a turbid discharge 250 NTU or greater, or Transparency 6 cm or less? * Yes ___ No ___
5. If yes to #4 was it reported to Ecology? Yes ___ No ___
6. Is pH sampling required? pH range required is 6.5 to 8.5. Yes ___ No X

If answering yes to a discharge, describe the event. Include when, where, and why it happened; what action was taken, and when.

_____

*If answering yes to # 4 record NTU/Transparency with continual sampling daily until turbidity is 25 NTU or less/ transparency is 33 cm or greater.

Sampling Results: Date: _____

Parameter	Method (circle one)	Result			Other/Note
		NTU	cm	pH	
Turbidity	tube, meter, laboratory				
pH	Paper, kit, meter				

EH-USA001349

ED_005624_00000103-00116

D. Check the observed status of all items. Provide "Action Required "details and dates.

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
1 Clearing Limits	Before beginning land disturbing activities are all clearing limits, natural resource areas (streams, wetlands, buffers, trees) protected with barriers or similar BMPs? (high visibility recommended)	X					
2 Construction Access	Construction access is stabilized with quarry spalls or equivalent BMP to prevent sediment from being tracked onto roads?	X					
	Sediment tracked onto the road way was cleaned thoroughly at the end of the day or more frequent as necessary.			X			
3 Control Flow Rates	Are flow control measures installed to control stormwater volumes and velocity during construction and do they protect downstream properties and waterways from erosion?	X					
	If permanent infiltration ponds are used for flow control during construction, are they protected from siltation?			X			
4 Sediment Controls	All perimeter sediment controls (e.g. silt fence, wattles, compost socks, berms, etc.) installed, and maintained in accordance with the Stormwater Pollution Prevention Plan (SWPPP).		X				**See 4**
	Sediment control BMPs (sediment ponds, traps, filters etc.) have been constructed and functional as the first step of grading.		X				**See 4 trap not designed and pond finish.**
	Stormwater runoff from disturbed areas is directed to sediment removal BMP.			X			
5 Stabilize Soils	Have exposed un-worked soils been stabilized with effective BMP to prevent erosion and sediment deposition?		X				

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
5 Stabilize Soils Cont.	Are stockpiles stabilized from erosion, protected with sediment trapping measures and located away from drain inlet, waterways, and drainage channels?	X					
	Have soils been stabilized at the end of the shift, before a holiday or weekend if needed based on the weather forecast?			X			
6 Protect Slopes	Has stormwater and ground water been diverted away from slopes and disturbed areas with interceptor dikes, pipes and or swales?			X			
	Is off-site storm water managed separately from stormwater generated on the site?			X			
	Is excavated material placed on uphill side of trenches consistent with safety and space considerations?	X					
	Have check dams been placed at regular intervals within constructed channels that are cut down a slope?		X	X			See 6
7 Drain Inlets	Storm drain inlets made operable during construction are protected.	X					
	Are existing storm drains within the influence of the project protected?	X					
8 Stabilize Channel and Outlets	Have all on-site conveyance channels been designed, constructed and stabilized to prevent erosion from expected peak flows?		X				See 8 need design to be done.
	Is stabilization, including armoring material, adequate to prevent erosion of outlets, adjacent stream banks, slopes and downstream conveyance systems?	X					
9 Control Pollutants	Are waste materials and demolition debris handled and disposed of to prevent contamination of stormwater?			X			
	Has cover been provided for all chemicals, liquid products, petroleum products, and other material?			X			
	Has secondary containment been provided capable of containing 110% of the volume?	X					
	Were contaminated surfaces cleaned immediately after a spill incident?	X					
	Were BMPs used to prevent contamination of stormwater by a pH modifying sources?			X			To be added. Once it is known

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
9 Cont.	Wheel wash wastewater is handled and disposed of properly.			X			
10 Control Dewatering	Concrete washout in designated areas. No washout or excess concrete on the ground.		X				To be added for patch plant.
	Dewatering has been done to an approved source and in compliance with the SWPPP.		X		More pits to pump and deeper, restrain soils (being done)	X	See 10
	Were there any clean non turbid dewatering discharges?			X			
11 Maintain BMP	Are all temporary and permanent erosion and sediment control BMPs maintained to perform as intended?		X				
12 Manage the Project	Has the project been phased to the maximum degree practicable?	X					
	Has regular inspection, monitoring and maintenance been performed as required by the permit?	X			Daily observation for most of week, no rain		
	Has the SWPPP been updated, implemented and records maintained?	X			Notes in field books maintained		
13 Protect LID	Is all Bioretention and Rain Garden Facilities protected from sedimentation with appropriate BMPs?	X					
	Is the Bioretention and Rain Garden protected against over compaction of construction equipment and foot traffic to retain its infiltration capabilities?	X					
	Permeable pavements are clean and free of sediment and sediment laden-water runoff. Muddy construction equipment has not been on the base material or pavement.			X			
	Have soiled permeable pavements been cleaned of sediments and pass infiltration test as required by stormwater manual methodology?			X			
	Heavy equipment has been kept off existing soils under LID facilities to retain infiltration rate.			X			

E. Check all areas that have been inspected. ✓

All in place BMPs [X] All disturbed soils [X] All concrete wash out area [ ] All material storage areas [X]

Construction Stormwater Site Inspection Form

All discharge locations [X] All equipment storage areas [X] All construction entrances/exits [X]

r. Elements checked "Action Required" (section D) describe corrective action to be taken. List the element number; be specific on location and work needed. Document, initial, and date when the corrective action has been completed and inspected.

Element #	Description and Location	Action Required	Completion Date	Initials
4	In-water and down at lower level	Accidental sediment trap needs outlet protection and should be designed to provide cells		
6	Conveyance ditch	Ditch not designed but constructed might be to small, need to break up flow and determine volumetric flow.		
10	Sediment for dewatering	Dewatering pumping done routed to sedimentation basin, need cells to be formed gravel preferred but hay bales tried first. Dewatering will require multiple interception pits deeper than work levels with possible interconnection with trench or wall. Soils must be restrained before any water is removed to prevent expected flows (see soil investigation from August 2019 and SWPPP notes.)		

Attach additional page if needed

gn the following certification:

"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief"

Inspected by: (print) Steven Goodrich, PE (Signature) Steven P Goodrich Date: 9/16/2020

Title/Qualification of Inspector: CESCL & SWPPP designer

This information is restoration of field book and calendar notes for period before construction start in August 2018.

In water work started Corey on site for monitoring. Actions in water where sand not used to buffer the HDPE.

Down at site for Stop Work action day of arrival. Maintenance still being done on old roadbed and gravel ditch built uphill of flume is rectangular undersized very high velocities. Work in water work started failure of dewatering.

Observations are being made daily for discharge and erosion with turbidity taken at pond location. High loads of saturated fines covering road rock surface.

Construction Stormwater Site Inspection Form

Project Name **ELECTRON INTAKE** Permit # **WAR306648** Inspection Date **08/08/2020** Time _____

Name of Certified Erosion Sediment Control Lead (CESCL) or qualified inspector if *less than one acre*
Print Name: Steven P Goodrich PE & Corey Kleppe

Approximate rainfall amount since the last inspection (in inches): _____

Approximate rainfall amount in the last 24 hours (in inches): _____

Current Weather Clear [X] Cloudy [ ] Mist [ ] Rain [ ] Wind [ ] Fog [ ]

A. Type of inspection: Weekly/Monthly [X] Post Storm [ ] Other [X]

B. Phase of Active Construction (*check all that apply*): Permit received 8/15/18 for in-water work. End 2018 Work **Facility operational, and maintenance of the facility continuing.**

Pre Construction/installation of erosion/sediment controls	X	Clearing/Demo/Grading	X	Infrastructure/storm/roads	
Concrete pours		Vertical Construction/buildings		Utilities	
Offsite improvements		Site temporary stabilized		Final stabilization	

C. Questions:

1. Were all areas of construction and discharge points inspected? Yes X No ___
2. Did you observe the presence of suspended sediment, turbidity, discoloration, or oil sheen Yes ___ No X
3. Was a water quality sample taken during inspection? (*refer to permit conditions S4 & S5*) Yes ___ No X
4. Was there a turbid discharge 250 NTU or greater, or Transparency 6 cm or less? * Yes ___ No ___
5. If yes to #4 was it reported to Ecology? Yes ___ No ___
6. Is pH sampling required? pH range required is 6.5 to 8.5. Yes ___ No X

If answering yes to a discharge, describe the event. Include when, where, and why it happened; what action was taken, and when.

_____

_____

_____

*If answering yes to # 4 record NTU/Transparency with continual sampling daily until turbidity is 25 NTU or less/ transparency is 33 cm or greater.

Sampling Results: Date: _____

Parameter	Method (circle one)	Result			Other/Note
		NTU	cm	pH	
Turbidity	tube, meter, laboratory				
pH	Paper, kit, meter				

D. Check the observed status of all items. Provide "Action Required "details and dates.

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
1 Clearing Limits	Before beginning land disturbing activities are all clearing limits, natural resource areas (streams, wetlands, buffers, trees) protected with barriers or similar BMPs? (high visibility recommended)	X					
2 Construction Access	Construction access is stabilized with quarry spalls or equivalent BMP to prevent sediment from being tracked onto roads?	X					
	Sediment tracked onto the road way was cleaned thoroughly at the end of the day or more frequent as necessary.			X			
3 Control Flow Rates	Are flow control measures installed to control stormwater volumes and velocity during construction and do they protect downstream properties and waterways from erosion?	X					
	If permanent infiltration ponds are used for flow control during construction, are they protected from siltation?			X			
4 Sediment Controls	All perimeter sediment controls (e.g. silt fence, wattles, compost socks, berms, etc.) installed, and maintained in accordance with the Stormwater Pollution Prevention Plan (SWPPP).		X		X		**See 4**
	Sediment control BMPs (sediment ponds, traps, filters etc.) have been constructed and functional as the first step of grading.		X		X		**See 4 trap not designed and pond finish.**
	Stormwater runoff from disturbed areas is directed to sediment removal BMP.			X			
5 Stabilize Soils	Have exposed un-worked soils been stabilized with effective BMP to prevent erosion and sediment deposition?		X		X		**Need to mulch and cover all areas work in progress**

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
5 Stabilize Soils Cont.	Are stockpiles stabilized from erosion, protected with sediment trapping measures and located away from drain inlet, waterways, and drainage channels?	X					
	Have soils been stabilized at the end of the shift, before a holiday or weekend if needed based on the weather forecast?			X			
6 Protect Slopes	Has stormwater and ground water been diverted away from slopes and disturbed areas with interceptor dikes, pipes and or swales?			X			
	Is off-site storm water managed separately from stormwater generated on the site?			X			
	Is excavated material placed on uphill side of trenches consistent with safety and space considerations?	X					
	Have check dams been placed at regular intervals within constructed channels that are cut down a slope?		X	X	**Install in all ditches**		**See 6, Install**
7 Drain Inlets	Storm drain inlets made operable during construction are protected.	X					
	Are existing storm drains within the influence of the project protected?	X					
8 Stabilize Channel and Outlets	Have all on-site conveyance channels been designed, constructed and stabilized to prevent erosion from expected peak flows?		X				See 8 need design to be done.
	Is stabilization, including armoring material, adequate to prevent erosion of outlets, adjacent stream banks, slopes and downstream conveyance systems?	X					
9 Control Pollutants	Are waste materials and demolition debris handled and disposed of to prevent contamination of stormwater?			X			
	Has cover been provided for all chemicals, liquid products, petroleum products, and other material?			X			
	Has secondary containment been provided capable of containing 110% of the volume?	X					
	Were contaminated surfaces cleaned immediately after a spill incident?	X					
	Were BMPs used to prevent contamination of stormwater by a pH modifying sources?			X			To be added. Once it is known

Construction Stormwater Site Inspection Form

Element #	Inspection	BMPs Inspected			BMP needs maintenance	BMP failed	Action required (describe in section F)
		yes	no	n/a			
9 Cont.	Wheel wash wastewater is handled and disposed of properly.			X			
10 Control Dewatering	Concrete washout in designated areas. No washout or excess concrete on the ground.		X		X fix up and install		To be added for patch plant.
	Dewatering has been done to an approved source and in compliance with the SWPPP.		X		More pits to pump and deeper, restrain soils (being done)	X	See 10
	Were there any clean non turbid dewatering discharges?			X			
11 Maintain BMP	Are all temporary and permanent erosion and sediment control BMPs maintained to perform as intended?		X				
12 Manage the Project	Has the project been phased to the maximum degree practicable?	X					
	Has regular inspection, monitoring and maintenance been performed as required by the permit?	X			Daily observation for most of week, no rain		
	Has the SWPPP been updated, implemented and records maintained?	X			Notes in field books maintained		
13 Protect LID	Is all Bioretention and Rain Garden Facilities protected from sedimentation with appropriate BMPs?	X					
	Is the Bioretention and Rain Garden protected against over compaction of construction equipment and foot traffic to retain its infiltration capabilities?	X					
	Permeable pavements are clean and free of sediment and sediment laden-water runoff. Muddy construction equipment has not been on the base material or pavement.			X			
	Have soiled permeable pavements been cleaned of sediments and pass infiltration test as required by stormwater manual methodology?			X			
	Heavy equipment has been kept off existing soils under LID facilities to retain infiltration rate.			X			

E. Check all areas that have been inspected. ✔

All in place BMPs [X] All disturbed soils [X] All concrete wash out area [ ] All material storage areas [X]

Construction Stormwater Site Inspection Form

All discharge locations [X] All equipment storage areas [X] All construction entrances/exits [X]

F. Elements checked "Action Required" (section D) describe corrective action to be taken. List the element number; be specific on location and work needed. Document, initial, and date when the corrective action has been completed and inspected.

Element #	Description and Location	Action Required	Completion Date	Initials
4	In-water and down at lower level	Accidental sediment trap needs outlet protection and should be designed to provide cells		
6	Conveyance ditch	Get rock for check dams use on hand to determine velocity and provide something for armor till get rock 2" to 4"		
10	Sediment for dewatering	Sediment pond install barriers per owner then rebuild with fence. Correct errors. Removed from involvement in dewatering other than draw locations per Thom.		

Attach additional page if needed

Sign the following certification:

"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief"

Inspected by: (print) Steven Goodrich, PE (Signature) Steven P Goodrich Date: 9/16/2020

Title/Qualification of Inspector: CESCL & SWPPP designer

This information is restoration of field book and calendar notes for period before construction start in August 2018.

In water work started Corey on site for monitoring. Actions in water where sand not used to buffer the HDPE.

Down at site for Stop Work action day of arrival. Maintenance still being done on old roadbed and gravel ditch built uphill of flume is rectangular undersized very high velocities. Work in water work started failure of dewatering.

Observations are being made daily for discharge and erosion with turbidity taken at pond location. High loads of saturated fines covering road rock surface.

EH-USA001358

ED_005624_00000103-00125