
 DEPARTMENT OF ECOLOGY State of Washington	<h2 style="text-align: center;">CONSTRUCTION STORMWATER GENERAL PERMIT</h2> <h3 style="text-align: center;">INSPECTION REPORT</h3> <p style="text-align: center;">State of Washington Department of Ecology</p>		
Section A: General Data			
Ecology Inspector(s): Elizabeth Fint	On-Site Representative Name: Jay Pullen Title: CESCL Phone: 425-351-0306 Email:	Inspection Date and Entry/Exit Time: October 18, 2021, 10:45/12:30 Receiving waters: Creek and wetland tributary to Snohomish River	Inspection Type: Unannounced Permit webpage: https://fortress.wa.gov/ecy/paris/FacilitySummary.aspx?FacilityId=60941
Section B: Background			
<p>The Bakerview Everett project is covered under the State of Washington's Construction Stormwater General Permit (CSGP). The CSGP is a National Pollutant Discharge Elimination System (NPDES) and a State Waste Discharge permit for discharge of construction-related stormwater.</p> <p>The project is also covered under Administrative Order 18193, which requires additional sampling of stormwater for contaminants that remain on site from past land use activities (landfill). The purpose of this inspection is to conduct a follow-up compliance inspection and to provide technical assistance as appropriate.</p> <p>Jay Pullen, Pace Engineers, was present during inspection and all observations and recommendations were discussed.</p> <p>Weather at time of inspection: Partly cloudy, rain within last 24 hours</p> <p><u>Precipitation in the past 24 hours?</u></p> <p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>			
Section C: Compliance			
<p>This inspection is a follow-up to the inspection from September 29, 2021.</p> <p>I walked the perimeter of the site with Jay – we started at the site entrance and walked counter-clockwise around the site, ending at the NE corner where the mudslide occurred.</p> <ul style="list-style-type: none"> • The site is grading and working sand and structural stockpiles every two days near the toe of the west slope • I observed rill erosion occurring on the slopes just south of the entrance – this was observed at the previous inspection and has not been addressed (photo 2). • Portions of silt fence were damaged along eastern project boundary – this was observed at the previous inspection and has not been addressed (photo 7). • Site has two baker tanks set up: one is southwest corner of project near French drain catch basin (photo 6). The other is southeast of site near cul-de-sac area (photo 8). The second tank near the cul-de-sac will be used to hold any potentially contaminated stormwater. The water is/will be pumped from the temporary lined pond northeast of site to the baker tank. The stormwater collected in this tank must be sampled per the contaminants in Table 1 of Administrative Order 18193 prior to discharging off-site. During the inspection, evidence of discharges from this area was observed (photo 			

11). These discharges commingle with seepage discharges at the toe of the northeast slope before discharging to the wetland and creek.

- Stormwater continues to run-off 3:1 northeast slope with exposed landfill material. Site has constructed berming to direct water to a lined temporary pond, but berms have failed to direct run off to pond. Surface run-off from landfill material is causing rill erosion down slope and discharging at toe of silt fence.
- The silt fence near the creek channel is not installed correctly and is allowing sediment and materials to pass under the silt fence and into the creek bed (photo 19).
- The silt fence between the mudslide area and creek was overwhelmed during a rain event on October 15 2021 and was not repaired at the time of inspection (photo 17). Sediment accumulation in front of the silt fence and stormwater flows have damaged the BMP. It will not perform as intended, especially during storm events.
- The site should ensure access roads on site are maintained and do not generate turbid discharges – refresh the aggregate access roads and remove sediment build up on the roads (photo 26).
- The site must ensure BMPs within the mudslide area are adequately monitored, maintained, and repaired, to ensure continued function, especially during storm events.
- The site should actively prevent additional sediment discharges to the wetland and creek.

<u>Violations and action required to achieve compliance</u>	<u>Complete or submit date</u>	<u>Guidance</u>
BMPs must be consistent with the Stormwater Management Manual for Western Washington (SWMMWW).		Ecology's SWMMWW Vol. II-3 Construction Stormwater BMPs.
<u>S9.D.6 Protect Slopes</u> Failure to meet S9.D.6.a: The Permittee must design and construct cut-and-fill slopes in a manner to minimize erosion. Applicable practices include, but are not limited to, reducing continuous length of slope with terracing and diversions, reducing slope steepness, and roughening slope surfaces (for example, track walking)., Failure to meet S9.D.6.e: Place check dams at regular intervals within constructed channels that are cut down a slope. Protect slopes, as set forth in permit condition S9.D.6.		C120 , C121 , C122 , C123 , C124 , C130 , C131 , C200 , C201 , C202 , C203 , C204 , C205 , C206 , C207 , C208
<u>S9.D.9 Control Pollutants</u> Stormwater continues to run-off 3:1 northeast slope with exposed landfill material. Site has constructed berming to direct water to a lined temporary pond, but berms have failed to direct run off to pond. Surface run-off from landfill material is causing rill erosion down slope and discharging at toe of silt fence. The stormwater is likely carrying contaminants from the exposed landfill material. The site has not contained the water or sampled for the constituents listed in Table 1 of Administrative Order 18193.		C151 , C152 , C153 , C154 , C250 , C251 , C252

<p>The site recovered the partially buried vehicle from the mudslide area, and staged the piece of equipment on a tarp on top of the now partially stabilized access to the mudslide area. Employees were actively servicing the vehicle at the time of inspection.</p> <p>There were several chemical product containers staged near the vehicle being serviced, with no secondary containment.</p> <p>The spill kit staged in this area appeared to only contain floor-dry absorbent material.</p> <p>Track out was observed on the paved roadway at the site entrance. No sweeper was present during the inspection.</p> <p>Failure to meet S9.D.9.a: Handle and dispose of all pollutants, including waste materials and demolition debris that occur on site in a manner that does not cause contamination of stormwater.</p> <p>Failure to meet S9.D.9.b: Provide cover, containment, and protection from vandalism for all chemicals, liquid products, petroleum products, and other materials that have the potential to pose a threat to human health or the environment. Minimize storage of hazardous materials on-site. Safety Data Sheets (SDS) should be supplied for all materials stored. Chemicals should be kept in their original labeled containers. On-site fueling tanks must include secondary containment. <i>Secondary containment means placing tanks or containers within an impervious structure capable of containing 110% of the volume of the largest tank within the containment structure.</i> Doublewalled tanks do not require additional secondary containment.</p> <p>Failure to meet S9.D.9.c: Conduct maintenance, fueling, and repair of heavy equipment and vehicles using spill prevention and control measures. Clean contaminated surfaces immediately following any spill incident. Design, install, implement and maintain effective pollution prevention measures to minimize the discharge of pollutants, as set forth in permit conditions S1.D.1, S9.D.9.</p>		
<p><u>S9.D.11 Maintain BMPs</u></p> <p>Silt fence between creek and mudslide failed Friday Oct. 15 and the site has not repaired it.</p> <p>The silt fence at the creek channel is not properly installed – the silt fence is not trenched in per standards and specifications. The open bottom of the silt fence allows sediment and materials to freely flow through to the creek channel.</p>		<p>SWMMWW, Chapter II-3 Construction Stormwater BMPs, C150, C160</p>

<p>Silt fence east of site has not been repaired per the September 29 2021 inspection report.</p> <p>Some areas of site do not have adequate coverage of straw mulch – the soil can be seen through the mulch in areas where the mulch is not thick enough.</p> <p>Straw wattle BMPs must be staked per standards and specifications in the SWMMWW</p> <p>Failure to meet S9.D.11.a: Permittee must maintain and repair all temporary and permanent erosion and sediment control BMPs as needed to assure continued performance of their intended function in accordance with BMP specifications. Maintain and repair all temporary and permanent BMPs, as set forth in permit condition S9.D.11.a.</p>		
<p><u>S9.D.12 Manage the Project</u></p> <p>Inspect, maintain and repair all BMPs as needed to assure continued performance of their intended function. Conduct site inspections and monitoring in accordance with Special Condition S4. Manage the Project to include inspecting, maintaining and repairing BMPs as needed and maintaining the SWPPP, as set forth in permit conditions S9.D.12.a and S9.D.12.c.</p>		<p>C150, C160, C162</p>
<p>For assistance with any of these compliance issues or recommendations regarding BMPs, please see the 2019 Stormwater Management Manual for Western Washington (SWMMWW), Volume II, Construction Stormwater Pollution Prevention which includes BMPs for Source Control and Runoff Conveyance and Treatment BMPs. The full SWMMWW is available at: http://www.ecy.wa.gov/programs/wq/stormwater/manual.html.</p> <p>The Department of Ecology has the authority to issue formal enforcement actions including issuance of orders and civil penalties of up to \$10,000 per day per violation for violations of your NPDES permit and/or state laws and regulations.</p> <p><i>Noncompliance with the limits, monitoring requirements, terms and/or conditions established in your permit may result in formal enforcement action by the Department of Ecology.</i></p>		
<p>Ecology Inspector (signature):  Date: October 20, 2021</p> <p>Ecology Inspector (print name): Elizabeth Fint</p> <p>Water Quality Program Northwest Regional Office 3190 160th Ave. SE Bellevue, WA 98008-5452</p>		

All photos taken by Elizabeth Fint

Photo 1

Photo Description: Rill erosion in slopes near entrance of site. Observed at previous inspection



Date: Time: Lat: Long: Direction degrees:

Photo 2

Photo Description: Grading stream channel at toe of west barrow slope. Deadline for stream channel completion is end of October



Date: Time: Lat: Long: Direction degrees:

Photo 3

Photo Description: Water appears clear discharging from french drain at time of inspection



Date: Time: Lat: Long: Direction degrees:

Photo 4

Photo Description: The site will pump any standing stormwater near French drain catch basin to baker tank



Date: Time: Lat: Long: Direction degrees:

Photo 5

Photo Description: Disconnected diversion pipe - can carry any stormwater accumulating in this area off site. Remove pipe or sample off site discharges per permit conditions



Photo 6

Photo Description: Looking west at baker tank near French drain catch basin



Date: Time: Lat: Long: Direction degrees:

Photo 7

Photo Description: Damaged silt fence south east of site - observed same damaged silt fence last inspection. Note the holes at base of silt fence



Date: Time: Lat: Long: Direction degrees:

Photo 8

Photo Description: Temporary sedimentation pond east of site. Second baker tank shown near cul-de-sac area



Date: Time: Lat: Long: Direction degrees:

Photo 9

Photo Description: 3:1 east slope with exposed landfill material. Rill erosion and sediment deposition at toe of silt fence indicating surface run-off and discharges off site.



Photo 10

Photo Description: Temporary lined pond to collect potentially contaminated run-off from exposed landfill material



Date: Time: Lat: Long: Direction degrees:

Photo 11

Photo Description: Berming to direct potentially contaminated stormwater to temporary lined pond are not adequate. Berms have failed and allowed stormwater to collect and discharge at silt fence



Date: Time: Lat: Long: Direction degrees:

Photo 12

Photo Description: Looking north east down failed slope



Date: Time: Lat: Long: Direction degrees:

Photo 13

Photo Description: Straw mulch is not thick enough - follow Stormwater Management Manual for Western Washington for standards and specs for BMP implementation



Photo 14

Photo Description: Looking east towards creek



Date: Time: Lat: Long: Direction degrees:

Photo 15

Photo Description: Flexible HDPE piping carrying seepage flows from toe of slope and discharge beyond disturbance to wetland further east and north of slide area



Date: Time: Lat: Long: Direction degrees:

Photo 16

Photo Description: Pipes bypassing seepage flows through mudslide area and discharging to wetland. Discharges were flowing clear at time of inspection. Sample point for DMR



Date: Time: Lat: Long: Direction degrees:

Photo 17

Photo Description: Silt fence check dam that failed Friday October 15th. Large amount of sediment buildup at silt fence. BMP has not been maintained or repaired



Photo 18

Photo Description: Plastic sheeting covering mudslide material near pipeline easement



Date: Time: Lat: Long: Direction degrees:

Photo 19

Photo Description: Silt fence check dam where disturbed material meets creek channel. Silt fence is not installed properly, allowing undercutting and free flow of materials under silt fence and in to creek



Date: Time: Lat: Long: Direction degrees:

Photo 20

Photo Description: Area just beyond last silt fence. Sediment deposition continues beyond silt fence



Date: Time: Lat: Long: Direction degrees:

Photo 21

Photo Description: Looking west towards toe of slope, seepage continues through portions of mudslide area



Date: Time: Lat: Long: Direction degrees:

Photo 22

Photo Description: Straw wattle must be staked into the ground to perform as intended. Wattle not staked at time of inspection.



Photo 23

Photo Description: Recovered equipment from mudslide was actively being serviced at time of inspection. Tarp was placed under equipment, but no berming or secondary containment for containers was observed



Photo 24

Photo Description: Chemical containers with no secondary containment at time of inspection. Site is pumping water from excavated hole up the slope to temporary sediment basin at cul-de-sac area.



Date: Time: Lat: Long: Direction degrees:

Photo 25

Photo Description: Spill kits only had floor dry product. Spill kits should be inventoried and items replaced as necessary



Date: Time: Lat: Long: Direction degrees:

Photo 26

Photo Description: Access roads must be maintained and refreshed - observed access roads with sediment deposition at time of inspection.



Date: Time: Lat: Long: Direction degrees:

Photo 27

Photo Description: Observed several vehicles drive through track out in road at time of inspection. No sweeper present at time of inspection.



Date: Time: Lat: Long: Direction degrees: