



## ENGINEER'S CONSTRUCTION OBSERVATION REPORT

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Project: Queen's Gap	Project Number: 2013-002	
Contractor: Site Development Corporation	Contact at Site: Tim Fox, Curt Dalziel	
Date: 2/8/2016	Time of Arrival 9:00 am	Weather Conditions: Wet soils, non- workable.
Notice to Proceed:	Substantial Completion Date:	
Previous Rain Days:	Previous Substantial Completion Date:	
Rain Days Since Last Report:	Total Rain Days:	Current Substantial Completion Date:

### Observations & Notes:

Met on-site to discuss problems associated with the rainfall event of last week – (5") reported at the site. Division of Water Quality reported a complaint from downstream property Owner regarding sediment deposition from the project site (area of stream restoration recently completed by Curt Dalziel).

The rainfall event caused serious erosion control problems project wide. The stream embankments were significantly damaged with coir wattles, excelsior matting and soil embankment washed out. Mr. Fox reported that the project remains under Notice of Violation and maintenance is required to stabilize and re-vegetate the stream restoration area. He suggested consideration of live staking of the lower 4-5' of stream bank in areas where stream velocities are eroding embankments.

Three (3) additional areas were inspected from other Notice of Violations under (DWR) jurisdiction. Mr. Fox requested removal of a slope drain entering the stream at the box culvert location. Restoration and site cleanup was requested at the intersection of the main roadway and soil side road. The culvert pipe in the soil road is obstructed with soil material and the stream has re-routed to a roadside ditch line. Mr. Fox asked for the stream to be restored to original route and the area stabilized. No work to be performed in the wetland area.

A third stream crossing was inspected by Mr. Fox and the results have not been reported at time of this report.

The remainder of the project was inspected for NCG010000 monitoring. Two new slopes failures occurred in the vicinity of the current slope repair areas. Erosion control maintenance is required project wide including but not limited to: ditch line rock check dams, wattles and matting materials, sediment fence, inlet protection, road bed maintenance, slope repairs and re-vegetation.

Site Development Corporation should begin erosion control cleanup as soon as possible. An inspection of the site will be conducted with Odom Engineering to determine priorities and a schedule for the site restoration work as soon as the Contractor returns to the site.

See attached photos of the areas inspected on this date.



**Slope failure – Project 3 area.**



**Slope failure – Project 3 area, opposite view.**



**Pipe slope drain to be removed. Request made by (DWR).**



**Sediment deposition near beginning of the stream cleanup area. Wattle washed downstream.**



**Embankment washed out in bend of stream.**



**Embankment washouts in the restoration project area.**



**Sediment deposition, obstructed culvert pipe and stream diversion at soil road and main roadway.**



**Erosion and ditch line washout at soil road – stream diverted to this area.**



**Excelsior ditch line protection washed out of the ditch line, deposited across the road.**



**Slopes failure (mid-section of photo) same area as Project 3 repairs.**

See attached DEMLR monitoring report.