

THE PROJECT:

Duck Creek is a residential community made up of 320 homes in a suburb of Wellington, New Zealand.

Environmental impact of the construction was a high concern because of the

neighboring creeks and rivers. RST Environmental Solutions was called upon to implement innovative methods for treatment of stormwater runoff and improve the water quality entering the Pauatahanui Inlet. HaloKlear biopolymers were selected because of their superior performance and ability to preserve and protect the environment.

THE SOLUTION:

During construction, the site consisted of three rain-activated flocculent sheds rented by the contractor. These sheds required continuous servicing and refilling, and were not designed for dewatering. The main stormwater pond, Duck Creek Pond, drains directly into the local creek, Duck Creek. When the creek needed to be dewatered, RST worked with Goodman Contractors to install 2 passive treatment manifolds, each housing HaloKlear Dual Polymer System (DPS). The passive application used HaloKlear dry biopolymer socks - GelFloc and DBP-2100.



THE RESULTS:

The passive systems installed by RST provided an inexpensive and more effective solution as compared to the rain sheds. The initial turbidity of Duck Creek Pond measured at 290 NTU. After passing through the manifolds where HaloKlear DPS treatment occurred, the turbidity was reduced to 28.6 NTU (on average). The pH was also kept at a neutral level so as not to affect any aquatic life in the ponds.



KEY FACTS:

- **Passive Treatment Application**
- **Products used:**
 - HaloKlear DPS:
 - GelFloc
 - DBP-2101
- **Contaminants:** sediment
- **Influent (avg):** 290 NTUs
- **Effluent (avg):** 28.6 NTUs



The picture above shows the passive application of HaloKlear DPS. That day, water was being diverted down the culvert from another location and the rain activated floc sheds wouldn't have operated.

Our partner on this project:

rst environmental solutions

www.rst.co.nz

For full report visit www.haloklear.com or call 1-888-282-6766.

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