

Technical Memorandum

Date: July 29, 2016

To: Eric Hansen, City of Stevenson

Cc: David Knight, Ecology; File

From: Cyndy Bratz, P.E.

Project: Stevenson General Sewer Plan Update, Rev 1 **Project Number:** 135-48600-16001

Subject: High Strength Dischargers Sampling Plan

This Technical Memorandum describes the Sampling Plan for the Stevenson General Sewer Plan Update and Wastewater Facility Plan Update. The table below provides details on the Sampling Plan; the numbered sampling points correspond to the attached sewer system map. As a result of communication between Tetra Tech, Ecology and the City, we are also providing the following recommendations:

- The City will sample at the WWTP during each day of sampling in the collection system.
- The City will sample in two phases, with sample locations paired so a potential high strength discharge location will be sampled at the same time the corresponding downstream manhole is sampled.
- If staff availability allows, consider stopping the sampler when the industry is not in operation.

Location	Sampling Point	Sampling Type	Sampling Parameters	Number of Samples	Flow Measurement	Notes
Waterfront Building (Backwoods Brewing and Skunk Brothers Distillery)	Interior pump station (Sampling Point #1)	24-hour Composite (1 sample per 15 min)	BOD ₅ , soluble BOD ₅ COD, soluble COD TSS VSS Ammonia-Nitrogen (1 test only) Total Phosphorus (1 test only)	Weeks 3 and 4: Daily Mon, Tue, Fri, Sat	Install flow meter on 2-inch line downstream of connection of two pump discharge lines; or put timer on pumps	When collecting sample, measure and record water temperature & pH in pump station
Judge and Jester Cider	Sampling port (Sampling Point #2)	24-hour Composite (1 sample per 15 min)	BOD ₅ , soluble BOD ₅ COD, soluble COD TSS VSS Ammonia-Nitrogen (1 test only) Total Phosphorus (1 test only)	Weeks 3 and 4: Daily Mon, Tue, Fri, Sat	Read water meter each day when sampling begins and when sampling ends	When collecting sample, measure and record water temperature & pH at sampling port
Kanaka Pump Station	Pump station wetwell (Sampling Point #3)	24-hour Composite (1 sample per 15 min)	BOD ₅ , soluble BOD ₅ COD, soluble COD TSS VSS Fats, Oils, and Grease (FOG) Ammonia-Nitrogen (1 test only)	Weeks 3 and 4: Daily Mon, Tue, Fri, Sat	Record pump run time each day when sampling begins and when sampling ends	When collecting sample, measure and record water temperature & pH in pump station

Location	Sampling Point	Sampling Type	Sampling Parameters	Number of Samples	Flow Measurement	Notes
Walking Man Brewery	Sampling port (Sampling Point #4)	24-hour Composite (1 sample per 15 min)	BOD ₅ , soluble BOD ₅ COD, soluble COD TSS VSS Ammonia-Nitrogen (1 test only) Total Phosphorus (1 test only)	Weeks 1 and 2: Daily Mon, Tue, Fri, Sat	Read water meter each day when sampling begins and when sampling ends	When collecting sample, measure and record water temperature & pH at sampling port
Skamania Lodge	Manhole downstream of grease trap (Sampling Point #6)	24-hour Composite (1 sample per 15 min)	BOD ₅ , soluble BOD ₅ COD, soluble COD TSS VSS Fats, Oils, and Grease (FOG) Ammonia-Nitrogen (1 test only)	Weeks 1 and 2: Daily Mon, Tue, Fri, Sat	Read water meter each day when sampling begins and when sampling ends	When collecting sample, measure and record water temperature & pH at sampling point
	Downstream manhole in grease trap (kitchen waste only, Sampling Point #5)			Weeks 3 and 4: Daily Mon, Tue, Fri, Sat		
Big River Grill	Downstream manhole (Sampling Point #7)	24-hour Composite (1 sample per 15 min)	BOD ₅ , soluble BOD ₅ COD, soluble COD TSS VSS Fats, Oils, and Grease (FOG) Ammonia-Nitrogen (1 test only)	Weeks 1 and 2: Daily Mon, Tue, Fri, Sat	Read water meter each day when sampling begins and when sampling ends	When collecting sample, measure and record water temperature & pH in manhole
Rock Creek Pump Station	Pump station wetwell (Sampling Point #8)	24-hour Composite (1 sample per 15 min)	BOD ₅ , soluble BOD ₅ COD, soluble COD TSS VSS Ammonia-Nitrogen (1 test only) Total Phosphorus (1 test only) Fats, Oils, and Grease (FOG) Ammonia-Nitrogen (1 test only)	Weeks 1 and 2: Daily Mon, Tue, Fri, Sat	Record pump run time each day when sampling begins and when sampling ends	When collecting sample, measure and record water temperature & pH in pump station
Fairgrounds Pump Station	Pump station wetwell (Sampling Point #9)	24-hour Composite (1 sample per 15 min)	BOD ₅ , soluble BOD ₅ COD, soluble COD TSS VSS Ammonia-Nitrogen (1 test only) Total Phosphorus (1 test only) Fats, Oils, and Grease (FOG) Ammonia-Nitrogen (1 test only)	Weeks 1 and 2: Daily Mon, Tue, Fri, Sat	Record pump run time each day when sampling begins and when sampling ends	When collecting sample, measure and record water temperature & pH in pump station