

Pollution Prevention Plan

A. General Overview

- Iron Horse Brewery
1621 Vantage HWY
Ellensburg, WA 98926
- Facility is used to manufacture and package beer and cider products
- Processes
 1. Automated Clean In Progress is used.
 - a. Acid cycles
 - b. Caustic cycles
 - c. Sanitize cycles
 - d. These processes can be run individually or as a complete cycle that includes: Rinse, acid or caustic, rinse, and sanitize
 2. Beer process
 - a. Making of beer from brewing to packaging
 - b. Testing beer for unwanted bacteria
 3. Cider process
 - a. Making of cider from fermentation to packaging
 - b. Testing cider for unwanted bacteria

DEPARTMENT OF ECOLOGY
CENTRAL REGIONAL OFFICE

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March 6, 2025

Received via: nicole.gassman@ecy.wa.gov

B. Safety and Modifications

1. We have a Safety Committee that oversees all safety standards highlighted by OSHA and LNI
 - a. Monthly safety inspections occur. These inspections include checking for chemical leaks, cleanliness around chemical stations, protective equipment is stocked, eye wash and emergency shower stations are in working order.
 - b. Monthly safety meetings are given to update employees on current and/or new safety procedures
2. Safety information is posted in 2 different locations.
 - a. Near bathrooms
 - b. Near main chemical station
 - c. Wall mounted safety posters are at these locations
 - d. A binder is kept with all current chemicals being used in the facility; the information contained includes
 1. Type of chemicals
 2. How to clean up chemical spills on floors and walls
 3. How to clean chemical contact with skin and/or eyes

3. Structural Modifications

1. Our waste water lift station was replaced. This was done to prevent leaks, blockage, and create a fluid flow without debris blocking/clogging our waste water treatment process. Listed below are what was done.
2. We had the waste water collection area lined and sealed with pvc tubing. This prevents rocks, concrete, and debris from the ground from mixing with our waste water. A screen was attached to the pipe going into our waste water tank. This prevents solids from entering our waste water tank. A mesh bucket was placed into the waste water collection area to collect solid debris. This bucket is pulled out and dumped into our dumpster, then replaced in the waste water collection area. There is a sensor that will alarm when this collection area is full.
3. The pvc pipes that go from the Waste Water tank to the chemical balance station have been replaced. This was done to reseal the pipe fittings to prevent leaks.
4. The pump for the Waste Water tank was replaced. This was done to replace the old pump to prevent further issues that we were having with the old pump.
5. Our chemical tanks were replaced. We did this for economic reasons. Both our Acid and Caustic tanks were replaced with new tanks. The old company removed chemicals from both tanks before we moved and replaced them.

4. Velcorin: Chemical used to prevent refermentation in our ciders. This chemical/process was added to our facility, two years ago, when we started making and blending ciders.

1. We have on file safety information that includes:
 - a. Handling
 - b. Storage
 - c. Disposal
 - d. Spillage clean up
 - e. Yearly training is required to educate and reeducate new and current employees using this chemical

5. Waste Water Reporting

1. Once a week waste water is collected at the chemical balance station.
2. This sample's pH is tested and checked with the waste water stations wall mounted display. These two pH numbers are entered into a QR code that keeps track of pH, on google drive.
3. The sample is then sent to a company to test for BOD and TSS. The results are then emailed back. The results are filed by Month then Year, on

google drive. These results are used to fill out the monthly DMR report. DMR reports are filed by year, on google drive.

4. A Datalog is sent to us on the 1st of every month. This datalog is used to create the DMR reports to WSDOE, which is due usually by the 15th of every month.

C. Security

1. Facility doors are locked up every night.
2. Facility is fenced in with two sliding gates that are shut and locked every night
3. Local first responders (police and fire departments) have access to the facility in case of an emergency, keys and lock box codes.