



BASIC AIR CONTAMINANT DISCHARGE PERMIT

Lane Regional Air Protection Agency
1010 Main Street
Springfield, OR 97477
(541) 736-1056

This permit is being issued in accordance with the provisions of LRAPA's Rules and Regulations and based on the land use compatibility findings included in the permit record.

ISSUED TO:

McKenzie River Brewing Company, LLC
990 West 1st Avenue
Eugene, OR 97402

INFORMATION RELIED UPON:

Application No.: 67865
Date Received: 1/6/2022

PLANT SITE LOCATION:

Hop Valley Brewing Company
990 West 1st Avenue
Eugene, OR 97402

**LAND USE COMPATIBILITY
STATEMENT:**

Approving Authority: City of Eugene
Approval Date: 1/6/2022

ISSUED BY THE LANE REGIONAL AIR PROTECTION AGENCY



Steven A. Dietrich, Director

1-26-22

Dated

Source(s) Permitted to Discharge Air Contaminants (LRAPA Section 37-0020):

Table 1 Code	Source Description	SIC
Part A, 2.	Boilers and other fuel-burning equipment (with or without #2 diesel oil back-up) of 2.0 or more MMBTU but less than 10 MMBTU/hour heat input.	2082

1.0 STATEMENT OF PURPOSE

- 1.1 Permitted Activities** The permittee is allowed to discharge air contaminants from processes and activities related to the air contaminant source(s) listed on the first page of this permit until this permit expires, is modified, revoked or rescinded as long as the permittee complies with the conditions of this permit.

2.0 GENERAL EMISSION STANDARDS AND LIMITS

- 2.1 Visible emission limits** Emissions from any air contaminant source must not equal or exceed 20% opacity for a period aggregating more than 3 minutes in any one hour. "Opacity" means the degree to which emissions, excluding uncombined water, reduce transmission of light and obscure the view of an object in the background. [LRAPA 32-010]
- 2.2 Particulate Matter Weight Standards – New Combustion Sources** Particulate matter emissions from any air contaminant source must not exceed 0.10 grains per dry standard cubic foot, adjusted to 50 percent excess air for fuel burning equipment that burns fuels other than wood. [LRAPA 32-030(1)]
- 2.3 Particulate Emission Limitations for Sources Other Than Fuel Burning Equipment** Particulate matter emissions from any air contaminant source must not exceed 0.10 grains per dry standard cubic foot. [LRAPA 32-015(2)(b)]
- 2.4 Process Weight Emission Limitation** The permittee must not cause, suffer, allow, or permit the emissions of particulate matter in any one hour from any process in excess of the amount shown in LRAPA Section 32-8010, for the process weight rate allocated to such process. [LRAPA 32-045]
- 2.5 Particulate Matter Fallout** The permittee must not cause or permit the emission of particulate matter larger than 250 microns in size at sufficient duration or quantity as to create an observable deposition upon the real property of another person. [LRAPA 32-055]
- 2.6 Nuisance and Odors** The permittee must not cause or allow air contaminants from any source subject to regulation by LRAPA to cause a nuisance. Nuisance conditions will be verified by LRAPA personnel. [LRAPA 49-010]

2.7 Other Regulations In addition to the specific requirements listed in this permit, the permittee must comply with all other legal requirements enforceable by LRAPA.

3.0 RECORDKEEPING AND REPORTING REQUIREMENTS

3.1 Records The permittee must maintain records of the information identified in Condition 3.2 for at least five (5) years from the date of the record. [LRAPA 34-016(5)]

3.2 Reports The permittee is required to report to LRAPA by **February 15th** of each year the following information: [LRAPA 37-0056(3)(c)]

- a. The total amount of natural gas combusted by the facility, in therms or million cubic feet, during the previous calendar year.

3.3 Permit Renewal An application to renew the existing permit is due by no later than 30 days prior to the expiration date of a Basic ACDP. [LRAPA 37-0040(2)(b)(A)]

3.4 Construction or Modification Notices The permittee must notify LRAPA before adding new or modifying existing equipment to the extent that process equipment is substantially changed or added to, or emissions are significantly changed or increased. [LRAPA 34-034]

3.5 Notice of Change of Ownership or Company Name The permittee must promptly notify LRAPA of any change of mailing address, company name, or plant ownership. The permit will expire 60 days after a change in the legal entity owning/operating the facility unless application, with appropriate fees, is made to transfer the permit to the new entity. [LRAPA 37-0030(4)]

3.6 Where to Send Reports and Notices The reports and notices, with the permit number prominently displayed, must be sent to the LRAPA office identified on the cover page of the permit.

4.0 FEES

4.1 Fees The Annual Fees specified in LRAPA Section 37-8020, Table 2, Part 2 and Part 3 for a Basic ACDP are due on **December 1** of each year this permit is in effect. An invoice indicating the amount, as determined by LRAPA regulations, will be mailed prior to the above date.

5.0 GENERAL CONDITIONS

- 5.1 Masking of Emissions** The permittee must not cause or permit the installation of any device or use any means designed to mask the emissions of an air contaminant that causes or is likely to cause detriment to health, safety, or welfare of any person or otherwise violate any other regulation or requirement. [LRAPA 32-050]
- 5.2 Outdoor Burning** The permittee may not conduct any outdoor burning except as allowed by LRAPA Title 47.
- 5.3 Asbestos** The permittee must comply with the asbestos abatement requirements in LRAPA Title 43 for all activities involving asbestos-containing materials, including, but not limited to, demolition, renovation, repair, construction, and maintenance must be performed by persons certified for asbestos abatement projects.
- 5.4 Permit Availability** The permittee must have a copy of the permit available at the facility at all times. [LRAPA 37-0020(3)]
- 5.5 LRAPA Inspections** The permittee must allow the LRAPA's representatives access to the plant site and pertinent records at all reasonable times for the purposes of performing inspections, surveys, collecting samples, obtaining data, reviewing and copying air contaminant emissions discharge records and conducting all necessary functions related to this permit in accordance with ORS 468.095 and LRAPA Section 13-020. [ORS 468.095(1) and LRAPA 13-020(1)(h)]
- 5.6 Legal Disclaimers** The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.
- 5.7 Permit Revocation** This permit is subject to revocation for cause as provided in LRAPA Section 37-0082.
- 5.8 LRAPA Contact** Call the LRAPA office in Springfield at (541) 736-1056.



Lane Regional Air Protection Agency

**BASIC
 AIR CONTAMINANT DISCHARGE PERMIT
 REVIEW REPORT**

McKenzie River Brewing Company, LLC
 (dba Hop Valley Brewing Company)
 990 West 1st Avenue
 Eugene, OR 97402
 (541) 485-2337
<https://www.hopvalleybrewing.com/>

Reports			NSPS	NESHAP	Public Notice
Annual	Semi-annual	Excess Emissions			
Feb 15	NA	NA	NA	NA	I

1. The proposed permit is an initial permit for an existing facility constructed in 2013 at 990 West 1st Avenue in Eugene, Oregon.
2. The permittee operates a brewery operation. The primary industrial classifications for this facility are SIC Code 2082 – Malt Beverages and NAICS Code 312120 – Breweries.
3. The significant emission units at this facility include one (1) natural-gas fired boiler with a maximum heat input rating of 6.3 MMBtu per hour.
4. This facility qualifies for a Basic ACDP because the facility consists of individual fuel burning equipment that has a maximum heat input rating of 2.0 or more MMBtu per hour but less than 10 MMBtu per hour.
5. The facility is not subject to any New Source Performance Standard (NSPS)
6. The facility is an area source of federal hazardous air pollutants. The facility is not subject to any area or major source National Emission Standards for Hazardous Air Pollutants (NESHAP), including 40 CFR 63 subpart JJJJJJ (6J) – National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers.
7. The facility is located in an area that has been designated attainment/unclassified for PM_{2.5}, ozone (VOC), NO₂, SO₂, Pb and a maintenance area for CO and PM₁₀.
8. LRAPA has determined that sources that qualify for a Basic ACDP will not have significant emissions. In most cases, the emissions will not exceed 5 tons of PM or PM₁₀ or 10 tons of any other pollutant. Therefore, the Basic ACDP does not include Plant Site

Emission Limits and it is not necessary to estimate emissions for each individual source.

9. Pursuant to LRAPA Subsection 37-0056(4), issuance of a new or renewed Basic Air Contaminant Discharge Permit requires public notice in accordance with LRAPA Paragraph 31-0030(3)(a). Therefore, there will be no prior notice or public participation. However, LRAPA will maintain a list of all permit actions processed under Category I and make the list available for public review.

JJW/rr
01/25/2022

McKenzie Brewing Company (Hop Valley)
 Permit Number: 205203
 Emission Detail Sheets
 Boiler Emissions

Boiler Specification

Max Heat Input	6.3	MMBtu/hr
Heat Value - NG	1,026	MMBtu/MMCF
Max Hrs Operation	8,760	hr/yr

Criteria Pollutants

Pollutant	Emission Factor	Emission Factor Units	Potential Hourly Emissions (lbs/hr)	Potential Annual Emissions (TPY)
PM/PM10/PM2.5	2.5	lbs/MMCF	1.5E-02	6.7E-02
Carbon Monoxide	84	lbs/MMCF	0.52	2.26
Nitrogen Oxides	100	lbs/MMCF	0.61	2.69
Sulfur Dioxide	1.7	lbs/MMCF	1.0E-02	4.6E-02
VOCs	5.5	lbs/MMCF	3.4E-02	1.5E-01
GHGs (CO2 equiv.)	117	lbs/MMBtu	738	3,231

FHAP/CAO Air Toxic Emissions

Pollutant	Federal HAP (Y/N)	CAO Air Toxic (Y/N)	NG Emission Factor (lb/MMCF)	Potential Hourly Emissions (lbs/hr)	Potential Annual Emissions (TPY)
Organics/Gases					
Benzene	Y	Y	0.008	4.9E-05	2.2E-04
Formaldehyde	Y	Y	0.017	1.0E-04	4.6E-04
Polycyclic aromatic hydrocarbons	Y	Y	0.0001	6.1E-07	2.7E-06
Benzo[a]pyrene	Y	Y	0.0000012	7.4E-09	3.2E-08
Naphthalene	Y	Y	0.0003	1.8E-06	8.1E-06
Acetaldehyde	Y	Y	0.0043	2.6E-05	1.2E-04
Acrolein	Y	Y	0.0027	1.7E-05	7.3E-05
Ammonia	N	Y	3.2	2.0E-02	8.6E-02
Ethyl benzene	Y	Y	0.0095	5.8E-05	2.6E-04
Hexane	Y	Y	0.0063	3.9E-05	1.7E-04
Toluene	Y	Y	0.0366	2.2E-04	9.8E-04
Xylenes	Y	Y	0.0272	1.7E-04	7.3E-04
Metals					
Arsenic and compounds	Y	Y	0.0002	1.2E-06	5.4E-06
Barium and compounds	N	Y	0.0044	2.7E-05	1.2E-04
Beryllium and compounds	Y	Y	0.000012	7.4E-08	3.2E-07
Cadmium and compounds	Y	Y	0.0011	6.8E-06	3.0E-05
Chromium VI	Y	Y	0.0014	8.6E-06	3.8E-05
Cobalt and compounds	Y	Y	0.000084	5.2E-07	2.3E-06
Copper and compounds	N	Y	0.00085	5.2E-06	2.3E-05
Lead and compounds	Y	Y	0.0005	3.1E-06	1.3E-05
Manganese and compounds	Y	Y	0.00038	2.3E-06	1.0E-05
Mercury and compounds	Y	Y	0.00026	1.6E-06	7.0E-06
Molybdenum trioxide	N	Y	0.00165	1.0E-05	4.4E-05
Nickel compounds	Y	Y	0.0021	1.3E-05	5.6E-05
Selenium and compounds	Y	Y	0.000024	1.5E-07	6.5E-07
Vanadium (fume or dust)	N	Y	0.0023	1.4E-05	6.2E-05
Zinc and compounds	N	Y	0.029	1.8E-04	7.8E-04

Max Individual FHAP = 9.8E-04 TPY
 Total FHAP = 3.0E-03 TPY

GHG-Related Emission Factors

Pollutant	Natural Gas (kg/MMBtu)	GWP
Carbon Dioxide (CO2)	53.06	1
Methane (CH4)	1.0E-03	25
Nitrous Oxide (N2O)	1.0E-04	298

Notes:

NG combustion criteria pollutant emissions are from ODEQ AQ-EF05 - Emission Factors from Gas Fired Boilers (uncont. medium boilers < 100 million Btu/hr).
 NG combustion GHG emissions are from US EPA 40 CFR 98, Tables C-1 and C-2 and the appropriate GWP.
 FHAP and CAO Air Toxic emission factors are from the DEQ 2020 ATEI Combustion Tool for natural gas external combustion with a maximum heat input rating of less than 10 MMBtu per hour, except for the ammonia emission factor. The ammonia emission factor is from US EPA WebFIRE SCC 10200603 for natural gas industrial boilers rated at less than 10 MMBtu per hour.