

Summary of Tentative Determination Draft Permit Conditions
Valley Proteins, Inc. – Linkwood
State Permit Number 04-DP-0024; NPDES Permit Number MD0003247

The Department proposes to issue the permit with limits on the following parameters at Outfall 001 to be effective immediately upon the permit effective date:

- **biochemical oxygen demand**
 - from Apr.-Nov.: 31 lbs/day average, 39 lbs/day maximum
 - from Dec.-Mar.: 90 lbs/day average, 180 lbs/day maximum)
- **total suspended solids**
 - from Apr.-Nov.: 39 lbs/day average, 53 lbs/day maximum
 - from Dec.-Mar.: 110 lbs/day average, 220 lbs/day maximum
- **ammonia**
 - from Apr.-Nov.: 4.2 mg/L average, 23 mg/L maximum
 - from Dec.-Mar.: 10 mg/L average, 23 mg/L maximum
- **oil and grease**
 - from Apr.-Nov.: 13 lbs/day average, 20 lbs/day maximum
 - from Dec.-Mar.: 50 lbs/day average, 100 lbs/day maximum
- **total nitrogen**
 - 1,231 lbs/month maximum
- **total phosphorus**
 - 123 lbs/month maximum
- **pH**
 - range of 6.0 to 9.0
- **dissolved oxygen**
 - 5.0 mg/L minimum
- **total residual chlorine**
 - 0.011 mg/L average, 0.019 mg/L maximum.
- Additionally, a maximum limitation of 200 MPN/100mL is proposed for **fecal coliform**, to be superseded by a proposed maximum limitation of 126 MPN/100mL for **E. coli** within one year of permit issuance.
- Monitoring without limitations is proposed for flow and **total Kjeldahl nitrogen**.

The Department additionally proposes a compliance schedule of three years for upgrading wastewater treatment at the facility and implementation of new limitations at Outfall 001. The value of the new limitations will be determined by the future flow volume chosen by the permittee. No later than three years following the permit effective date, the permittee must elect limitations based on a flow rate of 150,000 or a flow rate of up to 575,000 gallons per day (gpd). Each option is associated with a different set of proposed stricter limitations which will become effective upon election of a chosen path by the permittee. Once a path is selected, it cannot be changed without major permit modification. The terms of the proposed compliance schedule, including interim milestones, are expressed in a narrative condition in the draft permit.

Regardless of the path selected, the Department proposes the following new limitations at Outfall 001 to become effective once the selection is made:

- **total nitrogen**
 - 8,477 lbs/year maximum
- **total phosphorus**
 - 315 lbs/year maximum
- **biochemical oxygen demand**
 - from Apr.-Nov.: 6.0 mg/L average
- **total Kjeldahl nitrogen**
 - 2.8 mg/L annual average
- **pH**
 - range of 6.0 to 7.8

Should the applicant elect an average flow rate of 150,000 gpd, the Department proposes the following additional new limitations at Outfall 001:

- **biochemical oxygen demand**
 - from Dec.-Mar.: 12 mg/L average
- **ammonia**
 - from Apr.-Nov.: 1.5 mg/L average, 12.2 mg/L maximum
 - from Dec.-Mar.: 3.3 mg/L average, 12.5 mg/L maximum
- **dissolved oxygen**
 - 6.0 mg/L minimum

Should the applicant elect to increase the average flow rate above 150,000 gpd (up to a potential average of 575,000 gpd), the Department proposes the following additional new limitations at Outfall 001:

- **biochemical oxygen demand**
 - from Dec.-Mar.: 8.0 mg/L average
- **ammonia**
 - from Apr.-Nov.: 1.4 mg/L average, 12.2 mg/L maximum
 - from Dec.-Mar.: 3.2 mg/L average, 12.2 mg/L maximum
- **dissolved oxygen**
 - from Apr.-Nov.: 6.5 mg/L minimum; from Dec.-Mar.: 6.0 mg/L minimum

Any parameters which are not impacted by proposed new limitations following the selection of future flow by the permittee are proposed to have the limitations maintained at the levels which are effective immediately upon permit issuance.

In addition to the above numeric limitations and monitoring, the Department also proposes to require the following via narrative conditions:

- chronic whole effluent toxicity testing following the installation of the new wastewater treatment
- monitoring of groundwater at several locations on the property, proper sludge management (including specific reporting requirements)
- odor control measures
- a prohibition on ground application of wastewater.