

Application No. OH0127973

Issue Date: July 23, 2007

Effective Date: September 1, 2007

Expiration Date: August 31, 2012

Ohio Environmental Protection Agency
Authorization to Discharge Under the
National Pollutant Discharge Elimination System

In compliance with the provisions of the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et. seq., hereinafter referred to as the "Act"), and the Ohio Water Pollution Control Act (Ohio Revised Code Section 6111),

Elsa Inc.
d.b.a. Happy Valley Estates MHP

is authorized by the Ohio Environmental Protection Agency, hereinafter referred to as "Ohio EPA," to discharge from the Happy Valley Estates MHP wastewater treatment works located at 6800 Baker Road, Athens, Ohio, Athens County and discharging to West Branch Margaret Creek in accordance with the conditions specified in Parts I, II, and III of this permit.

This permit is conditioned upon payment of applicable fees as required by Section 3745.11 of the Ohio Revised Code.

This permit and the authorization to discharge shall expire at midnight on the expiration date shown above. In order to receive authorization to discharge beyond the above date of expiration, the permittee shall submit such information and forms as are required by the Ohio EPA no later than 180 days prior to the above date of expiration.

Chris Korleski
Director

Total Pages: 23

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from the following outfall: 0PV00531001. See Part II, OTHER REQUIREMENTS, for the locations of both the permitted outfall and the location to sample/monitor the effluent. .

Table - Final Outfall - 001 - Final

| Effluent Characteristic Parameter | Discharge Limitations | | | | | | Monitoring Requirements | | | |
|--|-------------------------------|---------|-----------------|---------|-------|--------|-------------------------|---------------|-------------------|---------|
| | Concentration Specified Units | | Loading* kg/day | | | | Measuring Frequency | Sampling Type | Monitoring Months | |
| | Maximum | Minimum | Weekly | Monthly | Daily | Weekly | | | | Monthly |
| 00083 - Color, Severity - Units | - | - | - | - | - | - | - | 1/Day | Estimate | All |
| 00300 - Dissolved Oxygen - mg/l | - | 6.0 | - | - | - | - | - | 1/Week | Grab | All |
| 00400 - pH - S.U. | 9.0 | 6.5 | - | - | - | - | - | 1/Week | Grab | All |
| 00530 - Total Suspended Solids - mg/l | 18 | - | - | 12 | 0.954 | - | 0.636 | 1/Week | Composite | All |
| 00610 - Nitrogen, Ammonia (NH3) - mg/l | 4.5 | - | - | 3.0 | 0.239 | - | 0.159 | 1 / 2 Weeks | Composite | Winter |
| 00610 - Nitrogen, Ammonia (NH3) - mg/l | 1.5 | - | - | 1.0 | 0.080 | - | 0.053 | 1 / 2 Weeks | Composite | Summer |
| 01330 - Odor, Severity - Units | - | - | - | - | - | - | - | 1/Day | Estimate | All |
| 01350 - Turbidity, Severity - Units | - | - | - | - | - | - | - | 1/Day | Estimate | All |
| 31616 - Fecal Coliform - #/100 ml | 2000 | - | - | 1000 | - | - | - | 1/Month | Grab | Summer |
| 50050 - Flow Rate - MGD | - | - | - | - | - | - | - | 1/Day | 24hr Total | All |
| 50060 - Chlorine, Total Residual - mg/l | 0.019 | - | - | - | - | - | - | 1/Week | Grab | Summer |
| 80082 - CBOD 5 day - mg/l | 15 | - | - | 10 | 0.795 | - | 0.53 | 1/Week | Composite | All |

Notes for station 0PV00531001:

- Effluent loadings based on average design flow of 0.014 MGD.

- Sampling shall be performed when discharging. If NO DISCHARGE OCCURS DURING THE ENTIRE MONTH, report "AL" in the first column of the first day of the month on the 4500 Form (Monthly Operating Report). DO NOT REPORT "0". A signature is still required.

- Total residual chlorine - See Part II, Items H and I.

- Color, Odor and Turbidity - See Part II, Item E.
- See Part I, C, Schedule of Compliance.
- See Part II, Item O regarding posting of a sign at this outfall.

Part I, B. - SLUDGE MONITORING REQUIREMENTS

1. Sludge Monitoring. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee shall monitor the treatment works' final sludge at Station Number 0PV00531581, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS, for the location to monitor and sample the sludge.

Table - Sludge Monitoring - 581 - Final

| Effluent Characteristic Parameter | Discharge Limitations | | | | | | Monitoring Requirements | | | |
|--|-------------------------------|--------|-----------------|-------|--------|---------------------|-------------------------|-------------------|-----------|----------|
| | Concentration Specified Units | | Loading* kg/day | | | Measuring Frequency | Sampling Type | Monitoring Months | | |
| Maximum | Minimum | Weekly | Monthly | Daily | Weekly | | | | Monthly | |
| 00611 - Ammonia (NH3) In Sludge - mg/kg | - | - | - | - | - | - | - | 1/Year | Composite | December |
| 00627 - Nitrogen Kjeldahl, Total In Sludge - mg/kg | - | - | - | - | - | - | - | 1/Year | Composite | December |
| 01003 - Arsenic, Total In Sludge - mg/kg | 75 | - | - | - | - | - | - | 1/Year | Composite | December |
| 01028 - Cadmium, Total In Sludge - mg/kg | 85 | - | - | - | - | - | - | 1/Year | Composite | December |
| 01043 - Copper, Total In Sludge - mg/kg | 4300 | - | - | - | - | - | - | 1/Year | Composite | December |
| 01052 - Lead, Total In Sludge - mg/kg | 840 | - | - | - | - | - | - | 1/Year | Composite | December |
| 01068 - Nickel, Total In Sludge - mg/kg | 420 | - | - | - | - | - | - | 1/Year | Composite | December |
| 01093 - Zinc, Total In Sludge - mg/kg | 7500 | - | - | - | - | - | - | 1/Year | Composite | December |
| 01148 - Selenium, Total In Sludge - mg/kg | 100 | - | - | - | - | - | - | 1/Year | Composite | December |
| 51129 - Sludge Fee Weight - dry tons | - | - | - | - | - | - | - | 1/Year | Total | December |
| 70316 - Sludge Weight - Dry Tons | - | - | - | - | - | - | - | 1/Year | Total | December |
| 71921 - Mercury, Total In Sludge - mg/kg | 57 | - | - | - | - | - | - | 1/Year | Composite | December |
| 78465 - Molybdenum In Sludge - mg/kg | 75 | - | - | - | - | - | - | 1/Year | Composite | December |

NOTES for Station Number 0PV00531581:

- Monitoring is required when sludge is removed from the wastewater treatment facility and disposed of by land application. Monthly Operating Report (MOR) data shall be reported on the December MOR. If no sludge is removed during the entire year, report "AL" in the first column of the first day of the month on the 4500 Form (Monthly Operating Report). DO NOT REPORT "0". A signature is still required.

- Units of mg/kg are on a dry weight basis.

- Sludge Weight (tons) is an estimated calculated total for the sampling period. Assume 1% solids for the calculation:

$$\text{Total Weight (tons)} = (\text{gallons}) \times 8.345 \times 0.01/2000$$

-Sludge Fee Weight means the weight of sewage sludge, in dry U.S. tons, excluding any admixtures such as liming material or bulking agents.

- See Part II, Items J, K, L, M and N.

- See Part III for yearly monitoring requirements.

Part I, B. - SLUDGE MONITORING REQUIREMENTS

2. Sludge Monitoring. During the period beginning on the effective date of this permit and lasting until the expiration date of this permit, the permittee shall monitor the treatment works' final sludge at Station Number OPV00531586, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS, for location of sludge sampling.

Table - Sludge Monitoring - 586 - Final

| Effluent Characteristic Parameter | Discharge Limitations | | | | | | | Monitoring Requirements | | |
|--|-------------------------------|---------|--------|---------|-----------------|--------|---------|-------------------------|------------------|----------------------|
| | Concentration Specified Units | | | | Loading* kg/day | | | Measuring Frequency | Sampling Type | Monitoring Months |
| | Maximum | Minimum | Weekly | Monthly | Daily | Weekly | Monthly | | | |
| 51129 - Sludge Fee Weight - dry tons | - | - | - | - | - | - | - | 1/Year | Total | December |

NOTES for Station Number OPV00531586:

* Monitoring is required when sludge is removed from the Permittee's facility for disposal in a mixed solid waste facility. Monthly Operating Report (MOR) data shall be reported on the December MOR. If no sludge is removed during the entire reporting period, report "AL" in the first column of the first day of the month on the 4500 Form (Monthly Operating Report). A signature is still required.

** Sludge fee weight means the total weight of sludge, in U.S. dry tons, excluding any admixtures such as liming material or bulking agents.

See Part II, Items J, K, L and M.

Part I, B. - SLUDGE MONITORING REQUIREMENTS

3. Sludge Monitoring. During the period beginning on the effective date of this permit and lasting until the expiration date of this permit, the permittee shall monitor the treatment works' final sludge at Station Number OPV00531588, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS, for location of sludge sampling.

Table - Sludge Monitoring - 588 - Final

| Effluent Characteristic Parameter | Discharge Limitations | | | | | | | Monitoring Requirements | | |
|--|-------------------------------|---------|--------|---------|-----------------|--------|---------|-------------------------|------------------|----------------------|
| | Concentration Specified Units | | | | Loading* kg/day | | | Measuring Frequency | Sampling Type | Monitoring Months |
| | Maximum | Minimum | Weekly | Monthly | Daily | Weekly | Monthly | | | |
| 70316 - Sludge Weight - Dry Tons | - | - | - | - | - | - | - | 1/Year | Total | December |
| 80991 - Sludge Volume, Gallons - Gals | - | - | - | - | - | - | - | 1/Year | Total | December |

NOTES for Station Number OPV00531588:

* Monitoring is required when sewage sludge is removed from the Permittee's facility for transfer to another NPDES permit holder. Monthly Operating Report (MOR) data shall be reported on the December MOR. If no sludge is removed during the entire reporting period, report "AL" in the first column of the first day of the month on the 4500 Form (Monthly Operating Report). A signature is still required.

** Sludge weight and sludge volume are calculated totals for the sampling period.

See Part II, Items J, K, L, and M.

Part I, C - Schedule of Compliance

Schedule to Meet Final effluent Limits at Outfall 0PV00531001

This entity shall attain compliance with the final effluent limitations of the permit as expeditiously as practicable, but not later than the dates developed in accordance with the following schedule:

- a. Submit detail plans for plant and sewer system improvements immediately upon the effective date of this permit. (Event Code 1799) (PTI for the upgraded wwtp has been submitted.)
- b. Commence construction immediately upon the effective date of this permit. (Event Code 03099) (Construction has commenced.)
- c. Notify the appropriate Ohio EPA District Office within seven days of construction completion.
- d. Attain operational level of the treatment works and complete any needed improvements to the collection systems and meet final effluent limitations immediately upon the effective date of this permit. (Event Code 05599)
- e. Notify the appropriate Ohio EPA District Office within seven days of attaining operational level.

Part II, Other Requirements

- A. The wastewater treatment works must be under supervision of a Class I State certified operator as required by rule 3745-7- 02 of the Ohio Administrative Code.
- B. Descriptions of the location of the permitted discharge outfalls and required effluent sampling/monitoring stations are as follows:

| Permitted Outfall or Effluent Sampling/ Monitoring Station | Description of Permitted Outfall or Effluent Sampling/ Monitoring Location |
|--|--|
| 0PV00531001 | Final effluent discharge to West Branch Margaret Creek (Lat: 39 N 17 ' 50 "; Long: 82 W 9 ' 33 ") |
| 0PV00531581 | Sludge removed from plant for disposal by land application at agronomic rates. |
| 0PV00531586 | Sludge removed for disposal in a mixed solid waste landfill. |
| 0PV00531588 | Sludge removed for transfer to another NPDES permit holder. |

C. All parameters, except flow, need not be monitored on days when the plant is not normally staffed (Saturdays, Sundays, and Holidays). On those days, report "AN" on the monthly report form.

D. The permittee shall maintain in good working order and operate as efficiently as possible the "treatment works" and "sewerage system" as defined in ORC 6111.01 to achieve compliance with the terms and conditions of this permit and to prevent discharges to the waters of the state, surface of the ground, basements, homes, buildings, etc.

E. If Severity Units are required for Turbidity, Odor, or Color, use the following table to determine the value between 0 and 4 that is reported. The sample shall be collected in a clear container for observation.

| REPORTED VALUE* | SEVERITY DESCRIPTION | TURBIDITY | ODOR | COLOR |
|--------------------|-------------------------|--------------|--------|-----------|
| 0 | None | Clear | None | Colorless |
| 1 | Mild | | | |
| 2 | Moderate | Light Solids | Musty | Grey |
| 3 | Serious | | | |
| 4 | Extreme | Heavy Solids | Septic | Black |

* Interpolate between the descriptive phrases.

F. Composite samples shall be comprised of at least three grab samples proportionate in volume to the sewage flow rate at the time of sampling and collected at intervals of at least 30 minutes, but not more than 2 hours, during the period that the plant is staffed on each day for sampling. Such samples shall be collected at such times and locations, and in such fashion, as to be representative of the facility's monitored discharge. performance.

G. Grab samples shall be collected at such times and locations, and in such fashion, as to be representative of the facility's monitored discharge.

H. Effluent disinfection is not directly required, however, the entity is required to meet all applicable discharge permit limits. If disinfection facilities exist, they shall be maintained in an operable condition. Any design of wastewater treatment facilities should provide for the capability to install disinfection if required at a future time. Disinfection may be required if future bacteriological studies or emergency conditions indicate the need.

I. The parameters below have had effluent limitations established that are below the Ohio EPA Quantification Level (OEPA QL) for the approved analytical procedure promulgated at 40 CFR 136. OEPA QLs may be expressed as Practical Quantification Levels (PQL) or Minimum Levels (ML).

Compliance with an effluent limit that is below the OEPA QL is determined in accordance with ORC Section 6111.13 and OAC Rule 3745-33-07(C). For maximum effluent limits, any value reported below the OEPA QL shall be considered in compliance with the effluent limit. For average effluent limits, compliance shall be determined by taking the arithmetic mean of values reported for a specified averaging period, using zero (0) for any value reported at a concentration less than the OEPA QL, and comparing that mean to the appropriate average effluent limit. An arithmetic mean that is less than or equal to the average effluent limit shall be considered in compliance with that limit.

The permittee must utilize the lowest available detection method currently approved under 40 CFR Part 136 for monitoring these parameters.

REPORTING:

All analytical results, even those below the OEPA QL (listed below), shall be reported. Analytical results are to be reported as follows:

1. Results above the QL: Report the analytical result for the parameter of concern.
2. Results above the MDL, but below the QL: Report the analytical result, even though it is below the QL.
3. Results below the MDL: Analytical results below the method detection limit shall be reported as "below detection" using the reporting code "AA".

The following table of quantification levels will be used to determine compliance with NPDES permit limits:

| Parameter | PQL | ML |
|---------------------|------------|----|
| Chlorine, tot. res. | 0.050 mg/l | -- |

This permit may be modified, or, alternatively, revoked and reissued, to include more stringent effluent limits or conditions if information generated as a result of the conditions of this permit indicate the presence of these pollutants in the discharge at levels above the water quality based effluent limit (WQBEL).

J. All disposal, use, storage, or treatment of sewage sludge by the Permittee shall comply with Chapter 6111. of the Ohio Revised Code, Chapter 3745-40 of the Ohio Administrative Code, any further requirements specified in this NPDES permit, and any other actions of the Director that pertain to the disposal, use, storage, or treatment of sewage sludge by the Permittee.

K. Sewage sludge composite samples shall consist of six to twelve grab samples collected at such times and locations, and in such fashion, as to be representative of the facilities sewage sludge.

L. No later than January 31 of each calendar year the Permittee shall submit two (2) copies of a report summarizing the sewage sludge disposal, use, storage, or treatment activities of the Permittee during the previous calendar year. One copy of the report shall be sent to the Ohio EPA, Division of Surface Water, P.O. Box 1049, Columbus, Ohio 43216-1049, and one copy of the report shall be sent to the appropriate Ohio EPA District Office. The report shall be submitted on Ohio EPA Form 4229.

M. Each day when sewage sludge is removed from the wastewater treatment plant for use or disposal a representative composite sample of sewage sludge shall be collected and monitored for total solids. Results of the monitoring shall be used to calculate the total Sewage Sludge Weight (Monthly Operating Report code 70316) and total Sewage Sludge Fee Weight (Monthly Operating Report code 51129) for the reporting period specified by this NPDES permit. The results of the daily monitoring, and the weight calculations, shall be maintained on site for a minimum of five years. The test methodology used shall be Part 2540 G of Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992. To convert from gallons of liquid sewage sludge to dry tons of sewage sludge: $\text{dry tons} = \text{gallons} \times 8.34 \text{ (lbs/gallon)} \times 0.0005 \text{ (tons/lb)} \times \text{decimal fraction total solids}$.

N. Not later than 4 months from the effective date of this permit, the permittee shall post permanent marker on the stream bank at each outfall that is regulated under this NPDES permit and discharges directly to the Ohio River. This includes final outfalls, bypasses, and combined sewer overflows. The marker shall consist at a minimum of the name of the establishment to which the permit was issued, the Ohio EPA permit number, and the outfall number and a contact telephone number. The information shall be printed in letters not less than two inches in height. The marker shall be a minimum of 2 feet by 2 feet and shall be a minimum of 3 feet above ground level. The sign shall be not be obstructed such that persons in boats or persons swimming on the river or someone fishing or walking along the shore cannot read the sign. Vegetation shall be periodically removed to keep the sign visible. If the outfall is normally submerged the sign shall indicate that. If the outfall is a combined sewer outfall, the sign shall indicate that untreated human sewage may be discharged from the outfall during wet weather and that harmful bacteria may be present in the water.