

Application No. OH0007960

Issue Date: May 8, 2006

Effective Date: January 1, 2007

Expiration Date: December 31, 2011

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),

Alpine Cheese Company, Inc.

is authorized by the Ohio Environmental Protection Agency, hereinafter referred to as "Ohio EPA," to discharge from the industrial wastewater treatment works located at 1658 Township Road 660, Paint Township, Ohio, Holmes County and discharging to RM 7.6 of the Middle Fork Sugar Creek via an unnamed tributary in accordance with the conditions specified in Parts I, II, and III of this permit.

I have determined that a lowering of water quality in the unnamed tributary and subsequently the Middle Fork Sugar Creek is necessary. In accordance with OAC 3745-1-05, this decision was reached only after examining a series of technical alternatives, reviewing social and economic issues related to the degradation, and considering all public and appropriate intergovernmental comments.

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.

Joseph P. Koncelik
Director

Total Pages: 31

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 outfall 3IH00100002. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 002 - 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			
00010 - Water Temperature - C	-	-	-	-	-	-	-	1/Day	Grab	All
00083 - Color, Severity - Units	-	-	-	-	-	-	-	1/Day	Estimate	All
00300 - Dissolved Oxygen - mg/l	-	6.0	-	-	-	-	-	2/Week	Grab	All
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1/Week	Grab	All
00515 - Residue, Total Dissolved - mg/l	2677.5	-	-	1785	-	-	812.01	2/Week	Composite	All
00530 - Total Suspended Solids - mg/l	18.0	-	-	12.0	9.55	-	6.37	2/Week	Composite	All
00610 - Nitrogen, Ammonia (NH3) - mg/l	1.5	-	-	1.0	0.79	-	0.53	2/Week	Composite	Summer
00610 - Nitrogen, Ammonia (NH3) - mg/l	4.5	-	-	3.0	2.39	-	1.59	2/Week	Composite	Winter
00665 - Phosphorus, Total (P) - mg/l	4.8	-	-	3.2	2.5	-	1.7	2/Week	Composite	All
01330 - Odor, Severity - Units	-	-	-	-	-	-	-	1/Day	Estimate	All
01350 - Turbidity, Severity - Units	-	-	-	-	-	-	-	1/Day	Estimate	All
31616 - Fecal Coliform - #/100 ml	2000	-	-	1000	-	-	-	2/Week	Grab	Winter
31616 - Fecal Coliform - #/100 ml	400	-	-	200	-	-	-	2/Week	Grab	Summer
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	24hr Total	All
80082 - CBOD 5 day - mg/l	15.0	-	-	10.0	7.96091	-	5.30727	2/Week	Composite	All

Notes for Station Number 3IH00100002:

* Effluent loadings based on average design flow of 0.140 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). A signature is still required.

Color, Odor and Turbidity - See Part II, Item F.

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 outfall 3IH00100601. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Internal Monitoring Station - 601 - 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			
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1/Week	Grab	All
00515 - Residue, Total Dissolved - mg/l	-	-	-	-	-	-	-	1/Week	Composite	All
00530 - Total Suspended Solids - mg/l	18	-	-	12	5.458909	-	3.63927	1/Week	Composite	All
00610 - Nitrogen, Ammonia (NH3) - mg/l	1.5	-	-	1.0	0.454909	-	0.303273	1/Week	Composite	Summer
00610 - Nitrogen, Ammonia (NH3) - mg/l	4.5	-	-	3.0	1.364727	-	0.909818	1/Week	Composite	Winter
00665 - Phosphorus, Total (P) - mg/l	8.4	-	-	5.6	2.547491	-	1.698327	1/Week	Composite	All
31616 - Fecal Coliform - #/100 ml	400	-	-	200	-	-	-	1/Week	Grab	Summer
31616 - Fecal Coliform - #/100 ml	2000	-	-	1000	-	-	-	1/Week	Grab	Winter
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	24hr Total	All
80082 - CBOD 5 day - mg/l	15	-	-	10	4.549091	-	3.032727	1/Week	Composite	All

Notes for station 3IH00100601:

Efluent loadings based on average design flow of 0.08 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). A signature is still required.

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 outfall 3IH00100602. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Internal Monitoring Station - 602 - 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			
00095 - Specific Conductance at 25 Degrees C - Umho	-	-	-	-	-	-	-	1/Day	Continuous	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	24hr Total	All

Notes for station 3IH00100602:

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). A signature is still required.

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 3IH00100581, 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 - 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/Month	Grab	All
00627 - Nitrogen Kjeldahl, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Month	Grab	All
00668 - Phosphorus, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Month	Grab	All
70318 - Sludge Solids, Percent Total - %	-	-	-	-	-	-	-	1/Month	Grab	All
70322 - Sludge Solids, Percent Volatile - %	-	-	-	-	-	-	-	1/Month	Grab	All
80991 - Sludge Volume, Gallons - Gals	-	-	-	-	-	-	-	1/Month	Total	All

NOTES for Station Number 3IH00100581:

Monitoring is required when sludge is removed from the wastewater treatment facility and disposed of by land application. If no sludge is removed during the entire month for disposal by land application, 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.

This station applies to sludge removed from both the vertical loop reactor system and from the phosphorus removal system. The permittee shall maintain individual records for each of the sludge sources. Each time sludge is removed from either the vertical loop reactor system or the phosphorus removal system and hauled off-site for disposed of by land application, the permittee shall record the date and the volume of sludge removed. The record must be maintained on-site for review.

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

*** Sludge weight is a calculated total for the sampling period.

**** See Part I, C. Schedule of Compliance

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 3IH00100588, 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
70318 - Sludge Solids, Percent Total - %	-	-	-	-	-	-	-	1/Month	Grab	All
80991 - Sludge Volume, Gallons - Gals	-	-	-	-	-	-	-	1/Month	Total	All

NOTES for Station Number 3IH00100588:

Monitoring is required when sludge is removed from the wastewater treatment facility and disposed of by hauling to another facility. If no sludge is removed during the entire month for disposal at another facility, 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.

This station applies to sludge removed from both the vertical loop reactor system and from the phosphorus removal system. The permittee shall maintain individual records for each of the sludge sources. Each time sludge is removed from either the vertical loop reactor system or the phosphorus removal system and hauled off-site for disposal at another facility, the permittee shall record the date and the volume of sludge removed. The record must be maintained on-site for review.

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

*** Sludge weight is a calculated total for the sampling period.

**** See Part I, C. Schedule of Compliance

Part I, B. - UPSTREAM MONITORING REQUIREMENTS

1. Upstream Monitoring. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee shall monitor the receiving stream, upstream of the point of discharge at Station Number 3IH00100801, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS, for location of sampling.

Table - Upstream Monitoring - 801 - 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
00010 - Water Temperature - C	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00010 - Water Temperature - C	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00094 - Conductivity - Umho/Cm	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00094 - Conductivity - Umho/Cm	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00300 - Dissolved Oxygen - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00300 - Dissolved Oxygen - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00400 - pH - S.U.	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00400 - pH - S.U.	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00515 - Residue, Total Dissolved - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00515 - Residue, Total Dissolved - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00530 - Total Suspended Solids - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00530 - Total Suspended Solids - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00625 - Nitrogen Kjeldahl, Total - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00625 - Nitrogen Kjeldahl, Total - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00630 - Nitrite Plus Nitrate, Total - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00630 - Nitrite Plus Nitrate, Total - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00665 - Phosphorus, Total (P) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>							<u>Monitoring Requirements</u>		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
Parameter										
00665 - Phosphorus, Total (P) - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
80082 - CBOD 5 day - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
80082 - CBOD 5 day - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May

NOTES for Station Number 3IH00100801:

The purpose of this outfall is to quantify the condition of the Middle Fork Sugar Creek immediately upstream of the unnamed tributary transporting treated effluent from Alpine Cheese.

Sample collection and handling procedures for stream samples must be conducted in accordance with procedures outlined in the "Manual of Ohio EPA Surveillance Methods and Quality Assurance Practices", 2003. The document can be viewed at the following web address:

<http://www.epa.state.oh.us/dsw/documents/Field%20Manual%2010-1-03.pdf>

Part I, B. - DOWNSTREAM-AIM MONITORING REQUIREMENTS

1. Downstream-AIM Monitoring. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee shall monitor the receiving stream, downstream of the point of discharge, at Station Number 3IH00100901, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS, for location of sampling.

Table - Downstream-AIM Monitoring - 901 - 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			
00010 - Water Temperature - C	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00010 - Water Temperature - C	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00095 - Specific Conductance at 25 Degrees C - Umho	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00095 - Specific Conductance at 25 Degrees C - Umho	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00300 - Dissolved Oxygen - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00300 - Dissolved Oxygen - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00400 - pH - S.U.	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00400 - pH - S.U.	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00515 - Residue, Total Dissolved - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00515 - Residue, Total Dissolved - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00530 - Total Suspended Solids - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00530 - Total Suspended Solids - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00625 - Nitrogen Kjeldahl, Total - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00625 - Nitrogen Kjeldahl, Total - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00630 - Nitrite Plus Nitrate, Total - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00630 - Nitrite Plus Nitrate, Total - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>						<u>Monitoring Requirements</u>			
	Concentration Specified Units		Loading* kg/day				Measuring Frequency	Sampling Type	Monitoring Months	
Parameter	Maximum	Minimum	Weekly	Monthly	Daily	Weekly				Monthly
00665 - Phosphorus, Total (P) - mg/l	-	-	-	-	-	-	-	2/Month	Grab	Oct-May
00665 - Phosphorus, Total (P) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
80082 - CBOD 5 day - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
80082 - CBOD 5 day - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep

NOTES for Station Number 3IH00100901:

The purpose of this station is to quantify conditions at the mouth of the unnamed tributary transporting treated effluent from Alpine Cheese prior to mixing with the Middle Fork Sugar Creek.

Sample collection and handling procedures for stream samples must be conducted in accordance with procedures outlined in the "Manual of Ohio EPA Surveillance Methods and Quality Assurance Practices", 2003. The document can be viewed at the following web address:

<http://www.epa.state.oh.us/dsw/documents/Field%20Manual%2010-1-03.pdf>

Part I, B. - DOWNSTREAM-NEARFIELD MONITORING REQUIREMENTS

1. Downstream-Nearfield Monitoring. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee shall monitor the receiving stream, downstream of the point of discharge, at Station Number 3IH00100902, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS, for location of sampling.

Table - Downstream-Nearfield Monitoring - 902 - 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
00010 - Water Temperature - C	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00010 - Water Temperature - C	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00095 - Specific Conductance at 25 Degrees C - Umho	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00095 - Specific Conductance at 25 Degrees C - Umho	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00300 - Dissolved Oxygen - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00300 - Dissolved Oxygen - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00400 - pH - S.U.	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00400 - pH - S.U.	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00515 - Residue, Total Dissolved - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00515 - Residue, Total Dissolved - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00530 - Total Suspended Solids - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00530 - Total Suspended Solids - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00625 - Nitrogen Kjeldahl, Total - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00625 - Nitrogen Kjeldahl, Total - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00630 - Nitrite Plus Nitrate, Total - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00630 - Nitrite Plus Nitrate, Total - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep

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			
00665 - Phosphorus, Total (P) - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00665 - Phosphorus, Total (P) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
80082 - CBOD 5 day - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
80082 - CBOD 5 day - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep

NOTES for Station Number 3IH00100902:

The purpose of this station is to quantify the Middle Fork Sugar Creek immediately downstream of the unnamed tributary transporting treated effluent from Alpine Cheese.

Sample Collection and handling procedures for stream samples must be conducted in accordance with procedures outlined in the "Manual of Ohio EPA Surveillance Methods and Quality Assurance Practices", 2003. The document can be viewed at the following web address:

<http://www.epa.state.oh.us/dsw/documents/Field%20Manual%2010-1-03.pdf>

Part I, B. - DOWNSTREAM-FARFIELD MONITORING REQUIREMENTS

1. Downstream-Farfield Monitoring. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee shall monitor the receiving stream, downstream of the point of discharge, at Station Number 3IH00100903, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS, for location of sampling.

Table - Downstream-Farfield Monitoring - 903 - 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
00010 - Water Temperature - C	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00010 - Water Temperature - C	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00095 - Specific Conductance at 25 Degrees C - Umho	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00095 - Specific Conductance at 25 Degrees C - Umho	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00300 - Dissolved Oxygen - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00300 - Dissolved Oxygen - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00400 - pH - S.U.	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00400 - pH - S.U.	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00515 - Residue, Total Dissolved - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00515 - Residue, Total Dissolved - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00530 - Total Suspended Solids - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00530 - Total Suspended Solids - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00625 - Nitrogen Kjeldahl, Total - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
00625 - Nitrogen Kjeldahl, Total - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00630 - Nitrite Plus Nitrate, Total - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00630 - Nitrite Plus Nitrate, Total - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep

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			
00665 - Phosphorus, Total (P) - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
00665 - Phosphorus, Total (P) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep
80082 - CBOD 5 day - mg/l	-	-	-	-	-	-	-	1/2 months	Grab	Oct-May
80082 - CBOD 5 day - mg/l	-	-	-	-	-	-	-	1/Month	Grab	June - Sep

NOTES for Station Number 3IH00100903:

The purpose of this station is to quantify the Middle Fork Sugar Creek after initial assimilation of the unnamed tributary.

Sample collection and handling procedures for stream samples must be conducted in accordance with procedures outlined in the "Manual of Ohio EPA Surveillance Methods and Quality Assurance Practices", 2003. The document can be viewed at the following web address:

<http://www.epa.state.oh.us/dsw/documents/Field%20Manual%2010-1-03.pdf>

Part I, C. SCHEDULE OF COMPLIANCE

Industrial Sludge

This entity shall take the actions described below as expeditiously as practicable, but not later than the dates developed in accordance with the following schedule.

a. The permittee shall submit to the appropriate Ohio EPA district office a substantially approvable sludge management plan as soon as possible, but no later than 4 months from the effective date of this permit. This plan shall describe in detail the method or methods the entity intends to employ for the disposal or reuse of the sewage sludge generated by the facility. (Event Code 95499)

Nutrient Trading Plan

The permittee shall immediately implement the January 1, 2006 Nutrient Trading Plan and any subsequent modifications agreed to by the permittee and Ohio EPA. Any modification to the plan shall be submitted to the Northeast District Office for review and approval prior to implementation.

Implementation of the Nutrient Trading Plan is required for the permittee to meet the conditions of the Sugar Creek TMDL. Failure to implement the Nutrient Trading Plan may cause Outfall 002 of the NPDES Permit to be modified to include a phosphorus limit of 1 mg/l as recommended by the Sugar Creek TMDL.

Any nutrient trading credits generated through the approved Nutrient Trading Plan prior to the effective date of this permit shall be considered for final credit by Ohio EPA per page 16 of the Nutrient Trading Plan.

Biological Monitoring

The permittee shall conduct biological monitoring at two different times throughout this permit, and at three different locations in the Middle Fork Sugar Creek. Biological sampling shall be conducted in the Middle Fork Sugar Creek upstream of station 3IH00100801 (RM 7.61), downstream of station 3IH00100902 (RM 7.58), and upstream of station 3IH00100903 (RM 6.5). Biological monitoring shall be conducted during the field seasons of 2007 and 2010. Field seasons are defined as the months covering June 15th through October 15th of each year.

Biological monitoring must include a habitat assessment using the Qualitative Habitat Evaluation Index (QHEI), a fish community assessment to calculate the Index of Biotic Integrity (IBI) scores, and a macroinvertebrate community assessment to calculate an Invertebrate Community Index (ICI) score at each location. ICI scores must be based on the use of Hester-Dendy artificial substrate samplers as required by Ohio EPA protocol.

The results of the biological monitoring required in this permit shall be submitted to the Northeast District Office of Ohio EPA no later than December 30, 2007 and December 30, 2010. The results shall include the QHEI forms and scores for each site, a list of the fish and macroinvertebrate species identified in each study, the number of individuals in each species, and calculations for the IBI and ICI scores.

The biological studies required in this permit shall be conducted in accordance with Ohio EPA protocol as specified in OAC 3745-1-03(B)(6). See www.epa.state.oh.us/dsw/bioassess/BioCriteriaProtAqLife.html

Part II, OTHER REQUIREMENTS

A. Description of the location of the required sampling stations are as follows:

Sampling Station	Description of Location
3IH00100002	Final effluent of the combined process and COW wastestreams following the final flow monitoring station (Lat: 40N 38' 05"; Long: 81W 40' 33").
3IH00100581	Sludge disposal to land application.
3IH00100588	Sludge disposal from the Vertical Loop Reactor System.
3IH00100601	Internal monitoring of treated process water following disinfection.
3IH00100602	Internal monitoring station of COW water treatment system at the end of the second reverse osmosis system.
3IH00100801	Upstream sample location collected in the Middle Fork Sugar Creek. The upstream sample shall be collected upstream of the Alpine tributary (Lat : 40N 38' 25" ; Long: 81W 40' 34")
3IH00100901	Downstream sample location at the mouth of the Alpine tributary prior to the Middle Fork Sugar Creek. (Lat: 40N 38' 24"; Long: 81W 40' 34")
3IH00100902	In the Middle Fork Sugar Creek at Twp. Road 606. (Lat: 40N 38' 26" ; Long: 81W 40' 31")
3IH00100903	In the Middle Fork Sugar Creek at County Road 200 (Harold Road) (Lat: 40N 39' 11" ; Long: 81W 40' 03")

B. This permit shall be modified, or alternatively, revoked and reissued, to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a)(2) of the Clean Water Act, if the effluent standard or limitation so issued or approved.

1. Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
2. Controls any pollutant not limited in the permit.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Act then applicable.

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. In the event that the permittee's operation requires the use of cooling or boiler water treatment additives that are discharged to surface waters of the state, written permission must be obtained from the director of the Ohio EPA prior to use. Reporting and testing requirements to apply for permission to use additives can be obtained from the Ohio EPA, Central Office, Division of Surface Water, Water Resources Management Section. Reported information will be used to evaluate whether the use of the additive(s) at concentrations expected in the final discharge will be harmful or inimical to aquatic life.

E. Permit limitations may be revised in order to meet water quality standards after a stream use determination and waste load allocation are completed and approved. This permit may be modified, or alternatively, revoked and reissued, to comply with any applicable water quality effluent limitations.

F. 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.

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.

G. Composite samples shall be comprised of a series of grab samples collected over a 24-hour period and proportionate in volume to the wastewater flow rate at the time of sampling. Such samples shall be collected at such times and locations, and in such a fashion, as to be representative of the facility's overall performance.

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

I. 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.

J. If for any reason, the facility must use chlorine for disinfection, it must contact the Ohio EPA District Office, Division of Surface Water for the appropriate requirements and limitations. The permittee must state, at such time:

1. For what reason chlorine will be used for disinfection (i.e. equipment breakdown, maintenance, etc.).
2. For what length of time will it be used.

K. Final permit limitations based on preliminary or approved waste load allocations are subject to change based on modifications to or finalization of the allocation or report or changes to Water Quality Standards. Monitoring requirements and/or special conditions of this permit are subject to change based on regulatory or policy changes.

L. Sampling at station 3IH00100002, 3IH00100601, and 3IH00100602 shall occur the same day.