



July 5, 2017

Sunrise Farms, Inc.
Terry Hudgens, General Manager
2060 White Avenue
Harris, IA 51345

SUBJECT: Wastewater Treatment Facility Inspection
NPDES Permit #7200802

Dear Mr. Hudgens:

Attached is a copy of the report resulting from the wastewater treatment facility inspection on June 1, 2017. Your attention is directed to the summary portion of the report.

If you have any questions, or feel this report does not represent the conditions at your facility, please call me at 712-262-4177.

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Roos", is written over a horizontal line.

Tom Roos, Environmental Specialist Senior
tom.roos@dnr.iowa.gov
Field Services and Compliance Bureau

TR:lw

c: -5th Floor Records Center, DNR, Wallace Building, Des Moines

enc: Inspection Report

ww17/72su0705-ins.docx

**IOWA DEPARTMENT OF NATURAL RESOURCES
WASTEWATER TREATMENT FACILITY INSPECTION**

NPDES Permit #7200802

Page 1 of 3

FACILITY	NAME: Sunrise Farms		OWNER: Sunrise Farms		
	ADDRESS: 2060 White Ave.	CITY: Harris	STATE: Iowa	ZIP: 51345	PHONE: 712-735-6010
RECEIVING STREAM	STREAM NAME: N/A - Land Application Only				
INSPECTION DATE AND TIME	DATE THIS INSPECTION: 06/01/17	TIME OF INSPECTION: 1000	DATE LAST INSPECTION: 08/05/13		
PLANT GRADE	<input type="checkbox"/> WW-I <input type="checkbox"/> WW-II <input type="checkbox"/> WW-III <input type="checkbox"/> WL-I <input type="checkbox"/> WL-II <input type="checkbox"/> WW-IV				

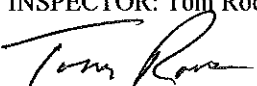
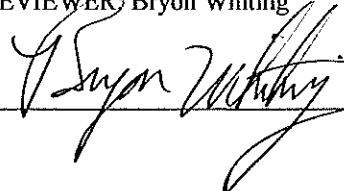
TREATMENT PROCESS	<input type="checkbox"/> Trickling filter <input type="checkbox"/> Activated sludge <input type="checkbox"/> RBC <input checked="" type="checkbox"/> Lagoon <input type="checkbox"/> Disinfection <input type="checkbox"/> Other:		
DESIGN CAPACITY	MGD: 0.055	POUNDS BOD/DAY: 2500	PE (BOD): 14,970
NOW TREATING	MGD (average daily): 0.061	POUNDS BOD: 1,118	PE (BOD): 6,695
SIGNIFICANT INDUSTRIAL CONTRIBUTORS:	INDUSTRIAL CONTRIBUTORS <input checked="" type="checkbox"/> No Significant Contributors <input type="checkbox"/> Treatment Agreement Required <input type="checkbox"/> Treatment Agreement on File		INDUSTRIAL MONITORING RESULTS <input type="checkbox"/> Satisfactory <input type="checkbox"/> Unsatisfactory

OPERATOR CERTIFICATION	OPERATOR CERTIFICATION UPDATE: <input type="checkbox"/> Compliance Form Included <input type="checkbox"/> Form on File <input type="checkbox"/> No changes		PROPERLY CERTIFIED OPERATOR <input type="checkbox"/> YES <input type="checkbox"/> NO
RESPONSIBLE OPERATOR	NAME: Terry Hudgens	GRADE: NA	CERTIFICATION NUMBER: NA
PERSONS INTERVIEWED	NAME: Terry Hudgens	TITLE: General Manager	

PERMIT COMPLIANCE SUMMARY			
EFFLUENT LIMITATIONS	SELF-MONITORING RESULTS: <input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Unsatisfactory*		SAMPLES THIS INSPECTION <input type="checkbox"/> Satisfactory <input type="checkbox"/> Unsatisfactory*
SAMPLES COLLECTED	TYPE: <input type="checkbox"/> 24 Hour Composite <input type="checkbox"/> Grab <input checked="" type="checkbox"/> None		LAB DATA ATTACHED? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
SELF-MONITORING	OPERATION REPORTS SUBMITTED: <input checked="" type="checkbox"/> Sat. <input type="checkbox"/> Unsat.*	REQUIRED DATA ON REPORT: <input checked="" type="checkbox"/> Sat. <input type="checkbox"/> Unsat.*	TESTING ADEQUACY: <input checked="" type="checkbox"/> Sat. <input type="checkbox"/> Unsat.*
OBSERVATIONS	VISUAL APPEARANCE OF EFFLUENT: NA	VISUAL APPEARANCE OF RECEIVING STREAM: NA	

COMPLIANCE SCHEDULE	COMPLIANCE WITH SCHEDULE: <input type="checkbox"/> Sat. <input type="checkbox"/> Unsat.* <input checked="" type="checkbox"/> None	NEXT ITEM DUE:	DATE DUE:
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* See comments

AUTHENTICATION	INSPECTOR: Tom Roos 	DATE: 07/05/17	REVIEWER: Bryon Whiting 	DATE: 07/05/17
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GENERAL FACILITY DESCRIPTION

Sunrise Farms operates an egg laying and breaking operation. Wastewater from this facility is stored in a five cell waste stabilization lagoon which consists of two aerated cells with synthetic liners and three earthen quiescent cells. All wastewater is disposed of by irrigation to the surrounding cropland. The restroom and shower waste from this facility is handled by an on-site septic system.

The facility currently has two approved application areas in Allison Township (T99N, R39W), Osceola County. These areas are as follows:

Area B: approximately 247 acres in the SE 1/4 of Section 27

Area C approximately 125 acres in the SE 1/4 of Section 33

Area D approximately 146 acres in the NE 1/4 of Section 33

EFFLUENT LIMITATIONS

Self Monitoring Results

The effluent data submitted since the previous inspection indicates that there have been no effluent limit violations.

SELF MONITORING

Operation Reports Submitted; Required Data Entered on Reports

The operation reports were submitted on time and all required data was reported. As a reminder, Rule 567 IAC 63.7(455B) requires that records of operation be submitted to this Department within 15 days of the end of the reporting period. Please resume timely submission of all Monthly Operation Reports (MORs).

FACILITY EVALUATION

Flow Monitoring

Influent flow to the lagoon has been calculated by subtracting the cooling tower and domestic waste from the facility's total water usage. Mr. Hudgens reported that they have been subtracting the average monthly flow for the cooling tower each day.

The flow volume land applied is calculated by multiplying the rated capacity of the effluent pump (500gpm) by the length of time the pump is operated.

Composite Sampling Technique

A portable composite sampler is used to collect 24-hour composites in accordance with the permit. The tubing in the sampler should be watched closely for bacterial growth as dirty lines may lead to higher sample results that are not representative of the typical wastewater at this facility. **While collecting composites, the samples must be cooled to 4°C. Since the sampler is not refrigerated, ice should be placed in the sampler to cool the samples during the collection period.**

Lagoon Operation & Maintenance

At the time of this inspection, one surface aerator in each of the two aerated cells was not functioning. **To ensure proper aeration, these aerators should be repaired as soon as possible.** Mr. Hudgens stated that new motors have been ordered to repair these units.

The ponds themselves appeared clear with no signs of odor or septic conditions and the grounds and dikes appeared to be well maintained. Mr. Hudgens reported that they mow periodically and spray as necessary to help control terrestrial vegetation along the berms. No aquatic vegetation was noted in the lagoon, and no animal burrows, trees or woody vegetation were observed on the berms. The cells have an adequate amount of riprap and no erosion problems were noted at this time. Mr. Hudgens also reported that they exercise all gates and valves three times a year (spring, summer, and fall) to keep them in full working order and ensure that no leaks are found.

Overall, the lagoon appears to be well maintained and operated. This facility is in compliance with their current Iowa Operations Permit.

Iowa Operations Permit

This facility's Iowa Operation Permit was issued and became effective on 08/01/14. This permit reauthorized land application of wastewater to one previously approved site and added two new approved sites.