CWA COMPLIANCE EVALUATION INSPECTION REPORT
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION 5

Purpose:	Compliance Evaluation Inspection
Facility:	DeJardin Farms E704 Bader Road Luxemburg, Wisconsin 54217
NPDES Permit Number:	None
Date of Inspection:	June 19, 2012
EPA Representatives:	Don Schowe, Agricultural Engineer, 312-353-8752 Joan Rogers, Environmental Scientist, 312-886-2785
State Representatives:	Casey Jones, Agricultural Runoff Mgmt. Specialist, Wisconsin Department of Natural Resources 920-303-5426
Facility Representatives:	Dean DeJardin, Partner [redacted]
Report Prepared by:	Don Schowe, Agricultural Engineer, 312-353-8752
Report Date:	January 31, 2012
Inspector's Signature:	D. R. Schowe

Background

The purpose of this report is to describe, evaluate and document DeJardin Farms compliance with the Clean Water Act (CWA) at its Lomira, Wisconsin facility on June 19, 2012.

DeJardin Farms is a dairy operation in Kewaunee County, Wisconsin. It is a Limited Liability Company (LLC) with a partnership between Mr. Dean DeJardin, Mr. Dale DeJardin, and Mr. David DeJardin. At the time of inspection, June 19, 2012, the facility was at capacity with 500 milking and dry cows, and 500 heifers and calves. Cattle were primarily confined to barns, however, approximately 68-70 heifers were confined on open lots and 70 - 110 calf hutches were being utilized. Mr. Dean DeJardin stated that the facility does not deviate significantly from the number of cattle confined at the facility year round. DeJardin Farms is considered a medium dairy Animal Feeding Operation (AFO) due to the number of mature dairy cows maintained on the facility. There is currently no National Pollutant Discharge Elimination System (NPDES) permit allowing discharge from the site and the facility has never applied for one. The DeJardin Farms facility abuts an unnamed tributary. The unnamed tributary flows approximately 2.6 miles to Green Bay.

Site Inspection

EPA and WDNR arrived at DeJardin Farms at 9:15 AM. The temperature was 85-90°F. It was overcast during arrival becoming clear as the day progressed. There was a south wind of 7-10 mph with no rain at the time of the inspection. Mr. DeJardin stated that they received approximately 1.5 inches of rain at the facility the day before the inspection. The Green Bay Weather Forecast Office (USC00437328) showed approximately 1.15 inches of rain on 6/18/2012 and 0.06 inches on 6/19/2012. EPA put on disposable boots and presented credentials to Mr. Dean DeJardin. EPA, WDNR, and Mr. Dean DeJardin proceeded to an office in the Milking Parlor where Mr. Schwer led the inspection by asking questions from the EPA checklist and information regarding the facility layout.

EPA performed a records review in the Milking Parlor office of DeJardin Farms. DeJardin Farms had a nutrient management plan first developed in 2004. The most current nutrient management plan was updated by Todd Koss at Koss Ag, LLC in 2012. The NMP reflects current operation characteristics at the facility. The NMP contained the following sections:

- maps of land application fields with setbacks and buffers,
- narrative discussion on land application rate determinations,
- application rates per field,
- manure production estimates,
- nutrient and soil analysis, and
- NRCS 590 Nutrient Management Plan Checklist.

The facility does not have any other locations under common ownership. The production facility was comprised of approximately 10-15 acres. No acres are devoted to pasture. The facility has approximately 1500 acres of land available for land application. Land application records are contained in the nutrient management plan. The facility does not transfer manure off site to other parties. A majority of the fields the farm utilizes for land application are near the facility. Drag

lines are used to apply to many of the fields. Mortalities are given to Sandy Bay Mink Ranch in Mishicot, Wisconsin. The cows are milked three times a day and the facility employees six people other than immediate family members.

Two Waste Holding Ponds are located onsite. The facility received assistance in the design of the East Waste Holding Pond from the County Conservation Office. Mr. DeJardin stated that as-built diagrams for the storage structures may be located at the County Conservation Office, but they were not on site. The storage structures are clay lined. Mr. DeJardin said the West Waste Holding Pond was built in 1975 and holds approximately 1.1 million gallons and the East Waste Holding Pond was built in 2006 and holds 5.5 million gallons, both with approximately one year of storage each. The holding ponds do not contain depth markers. Mr. DeJardin said the Waste Holding Ponds are inspected frequently; however, no records of the levels of manure in the Waste Holding Ponds are kept. Mr. DeJardin said the East Waste Holding Pond was last pumped down in November 2011 and will be pumped down again after the winter wheat harvest (~2-3 weeks from date of Inspection). The West Waste Holding Pond was last pumped down in August 2011.

The facility has three wells on site. A tank system with floats is used to provide water for the cattle. Cattle are cooled via misting during periods of the summer. Mr. DeJardin stated drinking water and mist cooling system water flows to the waste holding ponds. Non-contact cooling water is reused as drinking water or flushed to the East Waste Holding Pond. The milking parlor is flushed with well water; all manure and process wastewater goes through the Large Free Stall Barn and is pumped to the East Waste Holding Pond. The test dip containers, copper sulfate, and waste barrels are located in the equipment room in the milking parlor. If a spill of the chemicals were to occur it would flow to the East Waste Holding Pond.

The Large Free Stall Barn contains approximately 400 milking cows and is automatically scraped. The waste is pumped to the East Waste Holding Pond through a pipe that runs east along the north end of the Large Free Stall Barn. All other barns are naturally scraped daily to the West Waste Holding Pond. Mr. DeJardin was unsure of the amount of manure generated annually. The systems have no managed outfalls or discharge points. The facility uses straw, sawdust, and sand as bedding material at different locations on the facility. Used bedding is land applied. Manure and used bedding is temporarily stacked in the Calf Hutches Area. Mr. DeJardin said no discharges have been observed on the farm.

The facility has seven silos (six harvestore, one straw) on site. The silos hold silage, haylage, high moisture corn, and corn silage. Silage is also stored in bags at the southeast end of the production area. Mr. DeJardin said feed runoff from the Silage Storage Area in the southeast end of the production area is not contained and flows to the ditch along the road and then to drainage ditch (unnamed tributary).

Walkthrough

To facilitate the walkthrough section of this report, aerial photographs are included in Attachment 1. Figure 1.1 indicates the labeling used for the barns and structures in the production area. Attachment 2 indicates the flow pathways and sampling locations in the

production area. Inspection photographs (e.g. IMGPXXXX) are located in Attachment 3.

Silage Storage Area

EPA began the walkthrough at the Milking Parlor Office and walked east to observe the Silage Storage Area. The Silage Storage Area had no containment for runoff of silage and silage leachate. Mr. DeJardin said runoff from the Silage Storage Area flows to the Bader Road Ditch and then to the drainage ditch (unnamed tributary).

In the center/east end of the Silage Storage Area, leachate drained from silage bags south to the Bader Road Ditch. The flow from previous drainage resulted in silage solid accumulation in flow pathways and in portions of the Bader Road Ditch (IMGP0004, IMGP0005, and IMGP0006). EPA walked east along Bader Road Ditch observing water in the ditch during the inspection (IMGP0006, IMGP0007, and IMGP0008). See Attachment 2 for a visual description of this flow pathway labeled "Path 1: West Silage Storage Area Pathway."

The east end of the Silage Storage Area contained a pathway with process wastewater which was draining from an open silage bag toward the Bader Road Ditch (IMGP0021). The drainage pathway continued south and entered the Bader Road Ditch (IMGP0018). The Bader Road Ditch flows east to the unnamed tributary. See Attachment 2 for a visual description of this flow pathway labeled: "Path 2: East Silage Storage Area Pathway."

Aerial photographs obtained via the National Agricultural Imagery Program (NAIP) and online mapping programs (Bing and Google Maps) indicate the area south of the East Waste Holding Pond has been used for silage storage. This area has no containment and process wastewater would drain toward Bader Road Ditch and the unnamed tributary (See Figure 1.1).

East Waste Holding Pond

EPA walked around the perimeter of the East Waste Holding Pond. Mr. DeJardin said the lowest point in the pond was the northwest corner. There was a perimeter fence around the East Waste Holding Pond. The East Waste Holding Pond did not contain a depth marker. The East Waste Holding Pond stores manure and process wastewater produced in the Large Free Stall Barn and Milking Parlor.

Stormwater Pathway

A stormwater pathway which drains to the unnamed tributary was located northwest of the Commodity Shed (IMGP0038). The commodity shed had trash out and bald up of raw materials which could be transferred with stormwater toward the stormwater pathway (IMGP0039). Additionally, track out of feed and a pile of feed were observed at the east end of the Large Free Stall Barn. These raw materials could be transferred with stormwater toward the stormwater pathway which drains toward the unnamed tributary (IMGP0041, IMGP0043).

Large Free Stall Barn

Manure and process wastewater is automatically scraped to a receiving pit near the center of the

Large Free Stall Barn and is then automatically pumped via pipe along the north side of the Large Free Stall Barn east to the East Waste Holding Pond. This pipe contains a manual valve on the northeast side of the Large Free Stall Barn (IMG0948). The manure and process wastewater from the Milking Parlor is transferred to the receiving pit near the center of the Large Free Stall Barn via underground pipe (IMG0950) and flows with the manure and process wastewater from the Large Free Stall Barn to the East Waste Holding Pond.

Calf Hutch Areas and Walkways

Stacking of manure and used bedding was observed in the Calf Hutch Area (IMG0865). Mr. DeJardin said the Calf Hutch Area contains stormwater drains. Manure and process wastewater from this area enters the stormwater drains and flows through piping which outlets at the northeast corner of the Dry Cow Barn into a drainage ditch (IMG0948, IMG0983). Mr. DeJardin said manure is temporarily stacked in this area after calf hutches are taken down. Cattle walkways were observed in this area. Manure and process wastewater from the cattle walkways land on containment and portions of the walkways drained toward the stormwater drains (IMG0985, IMG0984). See Attachment 2 for a visual description of this flow pathway labeled; "Path 3: Walkway and Calf Hutch Area Pathway." The Walkway and Calf Hutch Area Pathway outlets to Path 5: Pathway Draining Open Lots and Calf Hutch Area which is described below and in Attachment 2.

Drainage Pathways around West Waste Holding Pond

The barns on the west side of the facility are scrapped manually to the West Waste Holding Pond. Piles of manure are stacked near the pond out area to the West Waste Holding Pond. EPA observed a dilapidated manure pack off guard to protect tractor from falling into the West Waste Holding Pond. The West Waste Holding Pond did not contain a depth marker. Mr. DeJardin stated that he estimates the current level in the pond by observing the height of water/manure on the concrete load out area on the west side of the West Waste Holding Pond.

The pipe draining the Calf Hutch Area and portions of the cattle walkways, as well as the Open Lot area inspected later in the walk through of the facility, outlets at the northeast corner of the Dry Cow Barn (IMG0980). This pathway flows west toward the West Waste Holding Pond and then around the north side of the West Waste Holding Pond (IMG0983, IMG0986, IMG0987). At the west end of the West Waste Holding Pond the drainage pathway went through a small culvert (IMG0988, IMG0989). Water was observed at the outlet of the culvert before the drainage enters the neighbor's property. See Attachment 2 for a visual description of this flow pathway labeled "Path 5: Pathway Draining Open Lots and Calf Hutch Area." The manure and process wastewater is outlet to a drainage pathway in the neighbor's field which flows an estimated 0.25 mile to the unnamed tributary.

Portions of the area on the north end of the West Waste Holding Pond flow west toward a pathway (IMG0990, IMG0990). A conveyor belt on the north side of the Special Needs/Maternity Barn is used to transfer used bedding/manure from the barn to the area south of the West Waste Holding Pond (IMG0992). Manure and process wastewater from this load out area flowed west through a pathway. Used bedding/manure solids were observed in the pathway

(IMGP0945). The pathway continues northwest around the West Waste Holding pond and outlets west of the West Waste Holding Pond into the neighbor's crop field (IMGP0946). See Attachment 2 for a visual description of this flow pathway labeled: "Path 6: Pathway around South Side of West Waste Holding Pond."

Open Lots

The facility had ~60-70 heifers on open lots adjacent to Bader Road (IMGP0914). Calf hutches were also located along Bader Road (IMGP0909). Manure was observed pushed out into the Bader Road Ditch from under the wooden fence barrier in the Open Lot Area (IMGP0910, IMGP0911, IMGP0912, and IMGP0913). The Heifer Open Lot had no containment and manure and process wastewater flowed into the Bader Road Ditch. At the east end of the Heifer Open Lots process wastewater was observed in the Bader Road Ditch (IMGP0917, IMGP0918). A flow path that drained into the Bader Road Ditch was observed at the east end of the Heifer Open Lot (IMGP0919, IMGP0920). The process wastewater drains east through Bader Road Ditch into a pipe under the farm entrance east of the Bred Heifers Barn (IMGP0922). The pipe drains north and outlets at the north east corner of the Dry Cow Barn, the same outlet of the Calf Hutches Area. See Attachment 2 for a visual description of this flow pathway labeled: "Path 4: Open Lot Pathway."

Sampling

Sampling was conducted at various locations of the production facility to determine the presence of pollutants that could impact the unnamed tributary. Mr. Delarifin declined to accompany EPA during sampling and EPA offered to split samples with Mr. Delarifin. Mr. Delarifin declined splitting samples. Samples were tested for fecal coliform, biological oxygen demand (BOD), total dissolved solids (TDS), total suspended solids (TSS), ammonia nitrogen, nitrate-nitrite nitrogen, total Kjeldahl nitrogen (TKN), and total phosphorus (TP).

Sample SO1, Silage Leachate, was taken at 12:27 PM from silage leachate from the west side of the Silage Storage Area (IMGP0927). Sample SO2, Ditch, was taken at 12:38 PM at the outlet of a culvert draining under an access road in Bader Road Ditch before the confluence with the unnamed tributary (IMGP0929). Sample SO3, Lot, was taken at 12:47 PM in a drainage pathway from the Open Lots in Bader Road Ditch (IMGP0931). Sample SO4, culvert, was taken at 12:55 PM at the culvert outlet, northeast corner of Dry Cow Barn, which drains the open lots, wellways, and calf hutches (IMGP0933). Sample SO5, field-entrance, was taken at 1:06 PM in the drainage pathway west of the West Waste Holding Pond before the drainage pathway enters the neighbor's field (IMGP0935). EPA created a field blank, S06, and preserved all the samples. Sampling locations can be seen in Attachment 2: Figure 2.1.

Exit Briefing

EPA concluded the sampling and gave a closing conference to Mr. Delarifin which ended at 2:00 PM. EPA discussed the facility's problem areas. During the closing conference, EPA provided the following compliance materials:

- EPA's CAFO Final Rulemaking – Fact Sheet

- NRCS EQIP program brochure
- NRCS Most Common Conservation Practices

Mr. DeJardin was made aware of the concern OSHA may have regarding the dilapidated manure push off guard to protect tractors from falling into the West Waste Holding Pond. Ms. Jones addressed regulatory concerns regarding the burning of agricultural plastics.

EPA delivered the fecal coliform sample to Pace Analytical and the holding time was met. The nutrient and general chemistry samples were packed on ice and mailed to the EPA Regional Laboratory in Chicago.

EPA conformed to all biosecurity procedures including obtaining a vehicle wash after leaving DeJardin Farms.

Potential Violations

DeJardin Farms is considered a medium dairy Concentrated Animal Feeding Operation (CAFO) due to the number of mature dairy cows maintained on the facility and discharge through a man made conveyance observed at the time of the inspection. According to Section 301(a) of the Clean Water Act, it is a violation to discharge pollutants from a CAFO to waters of the United States without a permit.

EPA observed the following discharges:

1. The Silage Storage Area had no containment and process wastewater pathways leading from silage bags entered the Bader Road Ditch (Path 1 and 2). Portions of the pathways contained silage solids. The Bader Road Ditch flows to the unnamed tributary. The Bader Road Ditch and culverts are manmade conveyances that facilitate the flow of process wastewater to the unnamed tributary.
2. The Open Lot along Bader Road had no containment. Manure and process wastewater from the lot flows east along Bader Road Ditch into a pipe (Path 4). The pipe continues under the farm access road to the north and outlets at the northeast corner of the Dry Cow Barn. The flow continues through Path 5 and outlets into the neighbor's field. The Bader Road Ditch and pipes are manmade conveyances that facilitate the flow of manure and process wastewater. The pathway in the neighbor's field is ~0.25 miles long and outlets to the unnamed tributary.
3. The Calf Hutch Area and Cattle Walkway had no containment. Stacking of manure/used bedding was observed in the Calf Hutch Area. Manure and process wastewater from the Calf Hutch Area and portions of the Cattle Walkway drains to stormwater drains (Path 3). The stormwater drains outlet at the northeast corner of the Dry Cow Barn. The flow continues through Path 5 and outlets into the neighbor's field. The pipes are manmade conveyances that facilitate the flow of manure and process wastewater. The pathway in the neighbor's field is ~.25 miles long and outlets to the unnamed tributary.

EPA observed these Areas of Concern:

1. Manure and process wastewater flowed from the load out area of the Special Needs/Maternity Barn on the south end of the West Waste Holding Pond west through Path 6. Used bedding/manure solids were observed in the pathway. The pathway outlets west of the West Waste Holding Pond into the neighbor's field.

2. Raw materials and feed located near the commodity shed and the exit side of the Large Free Stall Barn has the potential to be transported with stormwater and flow north via a stormwater pathway into the unnamed tributary.

3. No depth markers were installed in Waste Holding Ponds.

Sample Results

The results of the sampling, summarized in Table 1, indicate the Silage Storage Area contributes pollutants into the unnamed tributary. All of the samples had significant quantities of fecal coliform (50,000 to 1,350,000 Colony-Forming Units (CFU) per 100ml). Additionally, several forms of nitrogen are contained in the process wastewater samples, as indicated by the TKN, nitrite- nitrite nitrogen, and ammonia nitrogen sampling results. Significant quantities of TP, TDS, and TSS are present in the samples. The laboratory results are located in Attachment 4.

Table 1: Field Sampling Results

Sample ID	Fecal Coliform (CFU/100ml)	Biochemical Oxygen Demand (BOD5) (mg/L)	Total Kjeldahl Nitrogen (TKN) (mg/L)	Nitrite-Nitrate Nitrogen (mg/L)	Ammonia Nitrogen (mg/L)	Total Phosphorus (mg/L)	Total Dissolved Solids (TDS) (mg/L)	Total Suspended Solids (TSS) (mg/L)
SO1	6700000	2200	312	.07*	114	47.7	5880	213
SO2	5100000	110	19.8	.05*	8.57	4.84	829	262
SO3	2500000	1300	306	.04*	119	46.5	4140	707
SO4	10300000	530	54.3	.04*	24.7	13.2	1400	1170
SO5	5200000	400	82.3	U	31.4	22.8	2180	84
SO6 (Hinds)	39	5	.22*	U	U	U	U	U

*Estimated value, below reporting limit.

U-Undetectable

List of Attachments

1. Descriptive and Flyover Photographs
2. Flow Pathways
3. Inspection Photograph Log
4. Laboratory Results

Attachment 1: Descriptive Photos

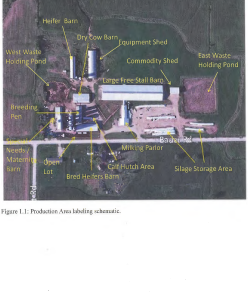


Figure 1.1: Production Area labeling schematic.

Figure 1.2: Flyover Photograph DSC_3477

Attachment 2: Flow Pathways

PATH 1 WEST SLAGS STORAGE AREA PATHWAY

IMAGE#001: Pooled water is observed in central and of the Slags Storage Area. This pooled water is toward the Barker Road Ditch.
Facing: Northeast

IMAGE#002: Pathway continues to the Barker Road Ditch.
Facing: Down/North

IMAGE#003: Flow of slags leachate and waste material is significant as evidence of slags material is a pathway connecting to the Barker Road Ditch.
Facing: Down/Southeast

IMAGE#004: The Barker Road Ditch flows east to the unnamed tributary. Water was observed in the Barker Road Ditch at the time of the inspection.
Facing: East

PATH 2 EAST SLAGS STORAGE AREA PATHWAY

IMAGE#005: Slags leachate process wastewater was observed throughout a pathway in and east of the Slags Storage Area.
Facing: North

IMAGE#006: Slags leachate process wastewater pathway drains to the Barker Road Ditch which flows east to the unnamed tributary.
Facing: Down/North

IMAGE#007: Slags leachate process wastewater pathway continues south to the Barker Road Ditch.
Facing: Down/South

IMAGE#008: Barker Road Ditch culvert pipe under access road.
Facing: Down

PATHS/ WALKWAY & CALF HUTCH AREA PATHWAY

IMAGE 0001: Manure and process wastewater from the walkway area have no containment.
Facing: South

IMAGE 0002: Stormwater drain located in the south portion of the Calf Hutch Area. Accepts flow from walkway.
Facing: South

IMAGE 0003: Overcast stormwater flow from roof building/manure stack. flows north toward open-raise drain.
Facing: Northwest

IMAGE 0004: Manure and process water from the Calf Hutch Area flows into concrete drain which exited in ditch near northeast corner of the Dry Cow Barn.
Facing: South

PATH 4: OPEN LOT PATHWAY

IMAGE 0005: Open ex-along Butler Road Ditch Facing: East

IMAGE 0006: Manure and process wastewater from Open Lot was observed in Butler Road Ditch.
Facing: Northeast

IMAGE 0006: Manure and process water from east end of Open Lot drains through pathway into shallow Road Ditch.
Facing: Northeast

IMAGE 0002: The Butler Road Ditch drainage flows east into a pipe. The pipe connects with another pipe and flows north to outlet at the northeast corner of the Dry Cow Barn.
Facing: Northeast

PATH 5: PATHWAY DRAINING OPEN LOTS AND CALF HUTCH AREA

PHOTO05: Pipe on the East drains the Calf Hutch Area, collects, and drains Lot 5 on an south side of facility.
Facing: Southwest

PHOTO06: Pathway or planter or pipe outlet into River around the Manure & Waste Water Holding Pond.
Facing: East

PHOTO07: Pathway continues west along the north side of the Waste Water Holding Pond.
Facing: East

PHOTO07: Pathway continues west along the north side of the Waste Water Holding Pond.
Facing: West

PHOTO08: The pathway enters into the neighbors field west of the Waste Water Holding Pond.
Facing: Southwest

PATH-4: PATHWAY AROUND SOUTH SIDE OF WEST WASTE RECEIVING POND

IMAGE#001: Manure smoke and pathway to the left of the trailer. Flooded pressure waste water was observed throughout. Facing: East

IMAGE#002: Until Building/manure, one rut area from Special Needs/Maternity Barn. Portions of the land and intra drain were flooded. Facing: Southeast

IMAGE#003: Pressure wash water drains west toward pathway around Pond. Waste Holding Pond. Facing: West

IMAGE#004: Pathway continues southwest. Facing: Southwest

IMAGE#006: Drains northwest and carries into the neighbor's field. Facing: Northwest

Attachment 3: Inspection Photograph Log*

IMG0N399: Delaello Farms
Location: Farm entrance near Office and Milking Parlor
Facing: Southeast
Date/Time: Tuesday, June 19, 2012, 10:17:40 AM

IMG0N400: Milking Parlor was connected to the large feed barn. The Milking Parlor's processed waste water was transferred north to the large free stall barn. The processed waste water was then transferred via pipe along the north side of the large free stall barn to the East Waste Holding Pond.
Location: Southeast of Milking Parlor
Facing: Northwest
Date/Time: Tuesday, June 19, 2012, 10:18:30 AM

DESCRIPTION: Ponded water was observed in the Silage Storage Area. The area drains south toward the Bader Road Ditch. The ditch flows east to the unnamed tributary.
Location: West side of Silage Storage Area
Facing: North
Date/Time: Tuesday, June 19, 2012, 10:18:54 AM

DESCRIPTION: Ponded water was observed in a catch-pit at the end of the Silage Storage Area. The area drains south toward the Bader Road Ditch. The ditch flows east to the unnamed tributary.
Location: West side of Silage Storage Area
Facing: Northeast
Date/Time: Tuesday, June 19, 2012, 10:18:40 AM

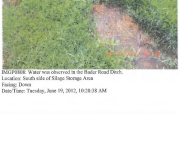
IMGP0870: Sludge leachate process waste water pathway continues south toward Bader Road Ditch.
Location: West side of Sludge Storage Area
Facing: Southwest
Date/Time: Tuesday, June 19, 2012, 10:04:4 AM

IMGP0886: Flow of sludge leachate and solids resulted in significant accumulation of sludge material in a pathway and the Bader Road Ditch.
Location: West side of Sludge Storage Area
Facing: Down/Northeast
Date/Time: Tuesday, June 19, 2012, 10:19:50 AM

Photo#011: Base of silage seepage and solids resulted in significant accumulation of silage material in a pathway and Butler Road Ditch.
Location: West side of Silage Storage Area
Facing: Down/Southeast
Date/Time: Tuesday, June 18, 2012, 10:19:54 AM

Photo#010: The Butler Road Ditch flows east to the unnamed tributary. Water was observed in the Butler Road Ditch at the time of the inspection.
Location: Southwest side of Silage Storage Area
Facing: East
Date/Time: Tuesday, June 19, 2012, 10:19:58 AM

DSCF0007: Water was observed in the Butler Road Ditch, a silage bag was adjacent the Butler Road Ditch.
Location: South side of Silage Storage Area
Facing: West
Date/Time: Tuesday, June 18, 2012, 10:20:32 AM



DSCF0008: Water was observed in the Butler Road Ditch.
Location: South side of Silage Storage Area
Facing: Down
Date/Time: Tuesday, June 19, 2012, 10:28:38 AM

IMG0F0869: Water was observed in the Bader Road Ditch
Location: South side of Silage Storage Area
Facing: East
Date/Time: Tuesday, June 19, 2012, 10:20:42 AM

IMG0F0870: Water was observed in the Bader Road Ditch
Location: South side of Silage Storage Area
Facing: Down
Date/Time: Tuesday, June 19, 2012, 10:21:08 AM

IMGP0811: Drainage pathway once culvert under access road
Location: Southeast side of Silage Storage Area
Facing: Down
Date/Time: Tuesday, June 19, 2012, 10:21:26 AM

IMGP0812: A pathway leading to the Baker Road Ditch.
Location: Southeast side of Silage Storage Area
Facing: Down/North
Date/Time: Tuesday, June 19, 2012, 10:21:52 AM

IMG0081: The Butler Road Ditch culvert inlet under access road.
Location: Southeast side of Silage Storage Area ditch
Facing: Down
Date/Time: Tuesday, June 19, 2012, 10:21:56 AM

IMG0084: The Butler Road Ditch culvert outlet pathway.
Location: Southeast side of Silage Storage Area
Facing: Down
Date/Time: Tuesday, June 19, 2012, 10:22:52 AM

IMAGE#15: Culvert outlet flow continues east to the unnamed tributary.
Location: Southeast of Silage Storage Area
Facing: Down
Date/Time: Tuesday, June 19, 2012, 10:23:32 AM

IMAGE#16: Stormwater pathway showing ponded water on east side of excess land flow to Baker Road Ditch.
Location: Southeast side of Silage Storage Area
Facing: Down
Date/Time: Tuesday, June 19, 2012, 10:23:32 AM

IMAGE#17: Stormwater pathway showing ponded water on east side of access road flow to Holder Road Ditch
Location: Southeast side of Silage Storage Area
Facing: Down
Date/Time: Tuesday, June 19, 2012, 10:21:16 AM

IMAGE#18: Silage leachate process wastewater was observed throughout a pathway in east end of the Silage Storage Area. Area drains to the Holder Road Ditch which flows east to the unnamed tributary.
Location: Southeast side of Silage Storage Area
Facing: Down/South
Date/Time: Tuesday, June 19, 2012, 10:24:02 AM

IMGP0819. Silage leachate process wastewater was observed throughout a pathway to east end of the Silage Storage Area. Area drains to the Bader Road Ditch which flows east to the unnamed tributary.
Location: Southeast side of Silage Storage Area
Facing: Down
Date/Time: Tuesday, June 19, 2012, 10:24:08 AM

IMGP0820. Silage leachate process wastewater was observed throughout a pathway to east end of the Silage Storage Area. Area drains to the Bader Road Ditch which flows east to the unnamed tributary.
Location: Southeast side of Silage Storage Area
Facing: Down/South
Date/Time: Tuesday, June 19, 2012, 10:24:14 AM

IMGP0822: Silage leachate process wastewater was observed throughout a pathway in east end of the Silage Storage Area. Pathway drains to the Bubble Road Ditch which flows east to the unnamed tributary.
Location: Southeast side of Silage Storage Area
Facing: North
Date/Time: Tuesday, June 19, 2012, 10:24:18 AM

IMGP0823: Commodity Steel and Erst Waste Holding Pond. Note: Holding Pond was fenced off.
Location: East side of Silage Storage Area / Southwest of Erst Waste Holding Pond
Facing: North
Date/Time: Tuesday, June 19, 2012, 10:26:42 AM

IMG0482: Community Shed and East Waste Holding Pond
Location: Southwest corner of Waste Holding Pond
Facing: North
Date/Time: Tuesday, June 19, 2012, 10:25:44 AM

IMG0484: The Waste Holding Pond contained no sludge/manure. Mr. Dolinskis said the northwest corner of the pond was the lowest point. The waste holding pond had a crust. Mr. Dolinskis said the pond was last pumped in November and would be pumped again after the winter wheat is out (2-3 weeks).
Location: Southwest corner of Waste Holding Pond
Facing: North
Date/Time: Tuesday, June 19, 2012, 10:25:18 AM

IMGPR025: The Waste Holding Pond contained no depth marker. Mr. DeSmith said the northwest corner of the pond is the deepest point. The waste holding pond had a crack. Mr. DeSmith said the pond was last pumped in November and will be pumped again after the winter wheat is out (2-3 weeks).
Location: South of Waste Holding Pond
Facing: Northwest
Date/Time: Tuesday, June 15, 2012, 10:25:14 AM

IMGPR026: Dan Schwer was standing near the confluence of the Unnamed Tributary and Butler Road Ditch.
Location: South of Waste Holding Pond
Facing: South
Date/Time: Tuesday, June 19, 2012, 10:26:22 AM

IMG_0362: Portion of Bader Road Ditch
Location: South of Waste Holding Pond
Facing: Down
Date/Time: Tuesday, June 19, 2012, 10:27:10 AM

IMG_0363: Water in a portion of Bader Road Ditch west of the confluence with the Unnamed Tributary
Location: South of Waste Holding Pond
Facing: Down
Date/Time: Tuesday, June 19, 2012, 10:27:32 AM

IMGP0820: Culvert draining under access road just west of the confluence of Butler Road Ditch and the unnamed tributary.
Location: South of Waste Holding Pond
Facing: Down
Date/Time: Tuesday, June 19, 2012, 10:27:42 AM

IMGP0818: Confluence of Butler Road Ditch with the unnamed tributary.
Location: South of Waste Holding Pond
Facing: Downwind
Date/Time: Tuesday, June 19, 2012, 10:28:42 AM

IMGP0631: Unnamed tributary flows under finder road through culvert.
Location: South of Waste Holding Pond
Facing: Down/South
Date/Time: Tuesday, June 19, 2012, 10:29:02 AM

IMGP0632: Unnamed tributary.
Location: South of Waste Holding Pond
Facing: Down/East
Date/Time: Tuesday, June 19, 2012, 10:29:08AM

IMGP0833: Untanned tributary.
Location: South of Waste Holding Pond
Facing: Down North
Date/Time: Tuesday, June 19, 2012, 10:28:14 AM

IMGP0841: East Waste Holding Pond
Location: East of Waste Holding Pond
Facing: South southwest
Date/Time: Tuesday, June 19, 2012, 10:31:58 AM

IMGP0455: East Waste Holding Pond
Location: East of Waste Holding Pond
Facing: Southwest
Date/Time: Tuesday, June 19, 2012, 10:51:44 AM

IMGP0456: East Waste Holding Pond
Location: East of Waste Holding Pond
Facing: Northwest
Date/Time: Tuesday, June 19, 2012, 10:51:48 AM

IMG0037: Lowest corner of the East Waste Holding Pond
Location: Northwest of Waste Holding Pond
Facing: Southeast
Date/Time: Tuesday, June 19, 2012, 10:34:10 AM

IMG0038: Stormwater pathway begins northwest of Commodity Shed. The pathway flows to the unnamed tributary.
Location: South of Commodity Shed
Facing: North
Date/Time: Tuesday, June 19, 2012, 10:35:00 AM

MSP09009: Raw materials stored in the Commodity Shed are observed on the concrete pad and the west side of the Commodity Shed. This material can flow with stormwater toward the stormwater pathway to unnamed tributary.
Location: Southwest corner of Commodity Shed
Facing: East
Date/Time: Tuesday, June 19, 2012, 10:36:00 AM

MSP09010: Raw materials stored in the Commodity Shed are observed on the concrete pad and the west side of the Commodity Shed. This material can flow with stormwater toward the stormwater pathway to unnamed tributary.
Location: West of Commodity Shed
Facing: Southeast
Date/Time: Tuesday, June 19, 2012, 10:36:04 AM

IMG0040: Tracked out silage now out end of Large Free Stall Barn. Tracked out silage can flow with stormwater toward the stormwater pathway to unnamed tributary.
Location: West of Commodity Shed/East of Large free Stall Barn
Facing: Southwest
Date/Time: Tuesday, June 19, 2012, 10:24:24 AM

IMG0042: Tracked out silage now out end of Large Free Stall Barn. Tracked out silage can flow with stormwater toward the stormwater pathway to unnamed tributary
Location: West of Commodity Shed / East of Large free Stall Barn
Facing: West
Date/Time: Tuesday, June 19, 2012, 10:36:28 AM

IMGP0843: Pile of feed rotor and end of Large Free Stall Barn. Feed can flow with stormwater toward the stormwater pathway to unnamed tributary
Location: West of Commodity Shed / East of Large Free Stall Barn
Facing: Northwest
Date/Time: Tuesday, June 19, 2012, 10:36:48 AM

IMGP0844: Stormwater pathway
Location: Northwest of Commodity Shed / Northeast of Large Free Stall Barn
Facing: Down
Date/Time: Tuesday, June 19, 2012, 10:37:08 AM

Title/Object: Stormwater pathway
Location: Northwest of Commodity Shed/ Northeast of Large Free Stall Barn
Facing: Down
Date/Time: Tuesday, June 19, 2012, 10:37:14 AM

Title/Object: Stormwater pathway
Location: Northwest of Commodity Shed/ Northeast of Large Free Stall Barn
Facing: North
Date/Time: Tuesday, June 19, 2012, 10:37:18 AM

IMG0586: Automatic manure scrapper in Large Free Stall Barn
Location: East side of Large Free Stall Barn
Facing: Northwest
Date/Time: Tuesday, June 19, 2012, 10:38:10 AM

IMG0588: Emergency shutoff valve for the pipe that connects the Large Free Stall Barn to the East Waste Holding Pond
Location: North of Large Free Stall Barn
Facing: Southwest
Date/Time: Tuesday, June 19, 2012, 10:42:32 AM

IMG29849: Manures were scrapped to the center of the barn. Manure and process wastewater are agitated and pumped to the East Waste Holding Pond.
Location: North of Large Free Stall Barn
Facing: Southeast
Date/Time: Tuesday, June 19, 2012, 10:44:28 AM

IMG29850: Manures was scrapped to the center of the barn. Manure and process wastewater are agitated and pumped to the East Waste Holding Pond.
Location: North of Large Free Stall Barn
Facing: South
Date/Time: Tuesday, June 19, 2012, 10:44:44 AM

IMGP0833: Manure was scraped to the center of the barn. Manure and process wastewater are agitated and pumped to the East Waste Holding Pond.
Location: North of Large Free Stall Barn
Facing: South
Date/Time: Tuesday, June 19, 2012, 10:43:02 AM

IMGP0832: Equipment Storage Shed. Silo and Heifer Barn are observed in the distance.
Location: South of Equipment Storage Shed
Facing: West
Date/Time: Tuesday, June 19, 2012, 10:46:42 AM

IMG0043: Dry Cow Barn. Approximate from Calf Hutch Area and open lots on south side of facility outlets near the southeast corner of the Dry Cow Barn.
Location: Northwest of Large Free Stall Barn
Facing: Southwest
Date/Time: Tuesday, June 19, 2012, 10:46:48 AM

IMG0044: Calf Hutch Area
Location: West of Large Free Stall Barn
Facing: South
Date/Time: Tuesday, June 19, 2012, 10:07:36 AM

IMGP0810: Calf Ranch Area
Location: North of Calf Ranch Area
Facing: Southeast
Date/Time: Tuesday, June 19, 2012, 10:48:18 AM

IMGP0806: The Calf Ranch Area was drained by 3 stormwater drains. Ponded water was observed in the area around the stormwater drain. The outlet was at the northeast corner of the Dry Cow Barn.
Location: North of Calf Ranch Area
Facing: South
Date/Time: Tuesday, June 19, 2012, 10:48:44 AM

INSPECT: Mixture can process waste water from the Calf Hutch Area flows into stormwater drains which outlet to a ditch near northeast corner of the Dry Cow Barn.
Location: North of Calf Hutch Area
Facing: South
Date/Time: Tuesday, June 19, 2012, 10:48:50 AM

INSPECT: Stormwater drain located in the Calf Hutch Area.
Location: Calf Hutch Area
Facing: Down
Date/Time: Tuesday, June 19, 2012, 10:49:12 AM

MGP0809: Stormwater drain located in the Cliff Hatch Area.
Location: Cliff Hatch Area
Facing: Southwest
Date/Time: Tuesday, June 19, 2012, 10:49:22 AM

MGP0810: Stormwater drain located in the south portion of the Cliff Hatch Area.
Location: Cliff Hatch Area
Facing: South
Date/Time: Tuesday, June 19, 2012, 10:50:10 AM

IMG0486: Used bedding/manure pile from calf hutches recently taken down.
Location: Calf Hutch Area
Facing: West
Date/Time: Tuesday, June 19, 2012, 10:50:32 AM

IMG0482: Processed wastewater from the sand bedding/manure stack flows north toward stormwater drain. Manure and process wastewater from the Calf Hutch Area flows into stormwater drains which outlet to a ditch northeast of the Dry Cow Barn.
Location: Calf Hutch Area
Facing: Northeast
Date/Time: Tuesday, June 19, 2012, 10:39:36 AM

IMGP0863: Manure and process wastewater from the walkway areas have no containment and can flow north into stormwater drain.
Location: Calf Hutch Area
Facing: South
Date/Time: Tuesday, June 19, 2012, 10:51:16 AM

IMGP0864: Manure and process wastewater from the walkway areas have no containment and can flow north into stormwater drain.
Location: Calf Hutch Area
Facing: South
Date/Time: Tuesday, June 19, 2012, 10:51:20 AM

IMG0F0865: Mixture and process wastewater from the washrag areas have no containment.
Location: Cuff Hatch Area
Facing: Northeast
Date/Time: Tuesday, June 19, 2012, 10:51:26 AM

IMG0F0866: Mixture and process wastewater from the washrag areas have no containment.
Location: Cuff Hatch Area
Facing: Northeast
Date/Time: Tuesday, June 19, 2012, 10:51:32 AM

DSC07888: Used bedding/manure pile drains north.
Location: Cuff Hatch Area
Facing: South
Date/Time: Tuesday, June 19, 2007, 10:52:04 AM

DSC07888A: Pathway used bedding/manure pile flows north toward stormwater drain
Location: Cuff Hatch Area
Facing: West
Date/Time: Tuesday, June 19, 2007, 10:52:10 AM

DRAINAGE: Pipe drains area southwest side of Dist Large Free Stall Barn.
Location: Calf Hutch Area
Facing: East
Date/Time: Tuesday, June 19, 2012, 10:52:44 AM

DRAINAGE: Drainage from Breeding Pen Barn (red fence) contact Calf Hutch Area.
Location: Calf Hutch Area
Facing: South
Date/Time: Tuesday, June 19, 2012, 10:53:58 AM

DSC0[illegible]71: West side of Breeding Pen Barn scraped to West Manure Holding Pond.
Location: South of Dry Cow Barn/ West of Breeding Pen Barn
Facing: South
Date/Time: Tuesday, June 19, 2012, 10:54:28 AM

DSC0[illegible]72: West side of Breeding Pen Barn scraped to West Manure Holding Pond.
Location: South of Dry Cow Barn
Facing: South
Date/Time: Tuesday, June 19, 2012, 10:54:58 AM

DESCRIPTION: West side of Breeding Pen Barn scrapped to West Manure Holding Pond.
Location: South of Dry Cow Barn
Facing: South
Date/Time: Tuesday, June 19, 2012, 10:54:56 AM

DESCRIPTION: Flow of manure and manure spreader before entrance into the West Waste Holding Pond.
Location: South of Dry Cow Barn
Facing: West
Date/Time: Tuesday, June 19, 2012, 10:55:14 AM

IMG20875: Dry Cow Barn was scrapped to the West Waste Holding Pond.
Location: West of Dry Cow Barn
Facing: South
Date/Time: Tuesday, June 19, 2012, 10:55:28 AM

IMG20876: Northeast end of old Waste Holding Pond.
Location: North of Dry Cow Barn
Facing: South
Date/Time: Tuesday, June 19, 2012, 10:56:48 AM

IMGP0577: Northeast end of Old Waste Holding Pond
Location: Northeast end of Old Waste Holding Pond
Facing: Southwest
Date/Time: Tuesday, June 19, 2012, 10:57:02 AM

IMGP0578: Pipe under the Stone the Gulf Hatch Area and Open Lot Area on south side of facility.
Location: Northeast of Dry Cow Barn
Facing: Down/South
Date/Time: Tuesday, June 19, 2012, 10:59:52 AM

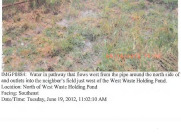
DOWNER: Pipe outlet that drains the Calf Hutch Area and Open Lot Area on south side of facility.
Location: Northeast of Dry Cow Barn
Facing: Down/South
Date/Time: Tuesday, June 19, 2012, 10:59:58 AM

DOWNER: Pipe outlet that drains the Calf Hutch Area and Open Lot Area on south side of facility.
Location: Northeast of Dry Cow Barn
Facing: Down/Southwest
Date/Time: Tuesday, June 19, 2012, 11:00:08 AM

IMG0001: Water in pathway connecting the pipe outlet that flows around the north side of the Old Waste Holding Pond and enters into the neighbor's field just west of the Old Waste Holding Pond.
Location: Northeast of Dry Cow Barn
Facing: Down/Southwest
Date/Time: Tuesday, June 19, 2012, 11:01:14 AM

IMG0002: Water in pathway connecting the pipe outlet that flows around the north side of the Old Waste Holding Pond and enters into the neighbor's field just west of the Old Waste Holding Pond.
Location: Northeast of Dry Cow Barn
Facing: Down/Southwest
Date/Time: Tuesday, June 19, 2012, 11:01:18 AM

IMAGE#88: Pathway originates at pipe outlet and flows around the north side of the West Waste Holding Pond.
Location: Northeast of Dry-Cow Barn/Northwest of West Waste Holding Pond
Facing: West
Date/Time: Tuesday, June 19, 2012, 11:01:22 AM



IMAGE#89: Water in pathway that flows west from the pipe around the north side of the West Waste Holding Pond and outlets into the neighbor's field just west of the West Waste Holding Pond.
Location: North of West Waste Holding Pond
Facing: Southwest
Date/Time: Tuesday, June 19, 2012, 11:02:30 AM

DSC00615: Pathway continues west along the north side of the West Waste Holding Pond. The pathway enters the neighbors field just west of the West Waste Holding Pond.
Location: North of West Waste Holding Pond
Facing: West
Date/Time: Tuesday, June 19, 2012, 11:02:16 AM

DSC00616: Pathway continues west along the north side of the West Waste Holding Pond. The pathway enters into the neighbors field just west of the West Waste Holding Pond.
Location: North of West Waste Holding Pond
Facing: East
Date/Time: Tuesday, June 19, 2012, 11:03:24 AM

IMG0087: Pathway continues exiting the north side of the West Waste Holding Pond. The pathway outlets into the neighbors field just west of the West Waste Holding Pond.
Location: North of West Waste Holding Pond
Facing: West
Date/Time: Tuesday, June 19, 2012, 11:01:46 AM

IMG0088: The pathway outlets into the neighbors field just west of the West Waste Holding Pond.
Location: Northwest of West Waste Holding Pond
Facing: Southwest
Date/Time: Tuesday, June 19, 2012, 11:04:12 AM

SG20120819. Culvert pipe allowing water to drain under access road just west of the West Waste Holding Pond.
Location: West of West Waste Holding Pond
Facing: Down/Southwest
Date/Time: Tuesday, June 19, 2012, 11:05:30 AM

SG20120819. Culvert pipe allowing water to drain under access road just west of the West Waste Holding Pond.
Location: West of West Waste Holding Pond
Facing: Down/Southwest
Date/Time: Tuesday, June 19, 2012, 11:05:58 AM

IMG0001: Drainage pathway enters into the neighbors field and flows approximately 0.25 mile to unnamed tributary.
Location: West of West Waste Holding Pond
Facing: West
Date/Time: Tuesday, June 19, 2012, 11:06:06 AM

IMG0002: A drainage pathway flows around the south end of the West Waste Holding Pond. The drainage pathway drains the area north of the Fresh/Maturity Barn.
Location: West of West Waste Holding Pond
Facing: South
Date/Time: Tuesday, June 19, 2012, 11:06:34 AM

DSC03203: A drainage pathway flows around the south end of the West Waste Holding Pond. The drainage pathway drains the area north of the Fresh/Maturity Barn.
Location: West of West Waste Holding Pond
Facing: South
Date/Time: Tuesday, June 19, 2012, 11:06:44 AM

DSC03204: Young Heifer Barn
Location: South end of the Heifer Barn
Facing: North
Date/Time: Tuesday, June 19, 2012, 11:09:28 AM

DESCRIPTION: Standing remnants in Calf Hutch Area.
Location: Calf Hutch Area
Facing: South
Date/Time: Tuesday, June 19, 2012, 11:11:32 AM

DESCRIPTION: Manure pads of area. Note: Pads of gated holes to be dislodged.
Location: South of West Waste Holding Pond
Facing: North
Date/Time: Tuesday, June 19, 2012, 11:12:28 AM

DSC07077: West Waste Holding Pond
Location: South of West Waste Holding Pond
Facing: Northeast
Date/Time: Tuesday, June 19, 2012, 11:12:16 AM

DSC07088: West Waste Holding Pond
Location: South of West Waste Holding Pond
Facing: North
Date/Time: Tuesday, June 19, 2012, 11:12:40 AM

DESCRIPTION: West Waste Holding Pond
Location: South of West Waste Holding Pond
Facing: Northwest
Date/Time: Tuesday, June 19, 2012, 11:12:44 AM

DESCRIPTION: Dry Cow Barn and Bounding Pen. Manure pads of urea to the north of the tractor.
Location: South of West Waste Holding Pond
Facing: East
Date/Time: Tuesday, June 19, 2012, 11:13:12 AM

DSC0001: Used bedding/manure load out area north of the Fresh/Maternity pen. Portions of the load out area drain west toward pathway around the West Waste Holding Pond and then outlet into the neighbor's field.
Location: South of West Waste Holding Pond
Facing: East
Date/Time: Tuesday, June 19, 2012, 11:11:18 AM

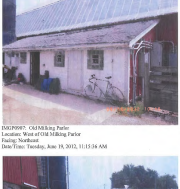
DSC0002: Used bedding/manure load out area from the Fresh/Maternity pen. Portions of the load out area drain west toward pathway around the West Waste Holding Pond and then outlet into the neighbor's field.
Location: South of West Waste Holding Pond
Facing: Southwest
Date/Time: Tuesday, June 19, 2012, 11:12:22 AM

IMGP0903: Ponded water north of Frank Matrozzi's Pen. Drains west toward pathway around the West Waste Holding Pond and then outlet into the neighbor's field.
Location: South of West Waste Holding Pond
Facing: South
Date/Time: Tuesday, June 19, 2012, 11:13:28 AM

IMGP0904: Drains west toward pathway around the West Waste Holding Pond and then outlet into the neighbor's field.
Location: South of West Waste Holding Pond
Facing: West
Date/Time: Tuesday, June 19, 2012, 11:13:52 AM

IMG0N965: Drains west toward pathway around the West Waste Holding Pond and then outlet into the neighbor's field.
Location: South of West Waste Holding Pond
Facing: Northwest
Date/Time: Tuesday, June 19, 2012, 11:14:08 AM

IMG0N966: Drains west toward pathway around the West Waste Holding Pond and then outlet into the neighbor's field.
Location: South of West Waste Holding Pond
Facing: Northwest
Date/Time: Tuesday, June 19, 2012, 11:16:22 AM



IMGP0997. Old Milking Parlor
Location: West of Old Milking Parlor
Facing: Northeast
Date/Time: Tuesday, June 19, 2012, 11:15:16 AM

IMGP0998. Ponded water south of the Old Milking Parlor
Location: South of Old Milking Parlor
Facing: East
Date/Time: Tuesday, June 19, 2012, 11:16:00 AM

IMGP0010: Gate location along Bader Road Ditch
Location: Along Bader Road Ditch
Facing: Northeast
Date/Time: Tuesday, June 19, 2012, 11:10:22 AM

IMGP0009: Manure pushout along Bader Road Ditch
Location: Along Bader Road Ditch
Facing: North
Date/Time: Tuesday, June 19, 2012, 11:10:10 AM

DSC0001: Manure pushout along Butler Road Ditch
Location: Along Butler Road Ditch
Facing: Northwest
Date/Time: Tuesday, June 19, 2012, 11:16:44 AM

DSC0002: Lowered area with loading for tractors.
Location: Open Lot along Butler Road Ditch
Facing: Northeast
Date/Time: Tuesday, June 19, 2012, 11:17:12 AM

IMGP0811: Open lot along Bader Road Ditch
Location: Open lot along Bader Road Ditch
Facing: North
Date/Time: Tuesday, June 19, 2012, 11:17:16 AM

IMGP0816: Open lot along Bader Road Ditch drains east
Location: Open lot along Bader Road Ditch
Facing: East
Date/Time: Tuesday, June 19, 2012, 11:17:22 AM

IMGP0813: Push out from Open Int along Butler Road Ditch.
Location: Along Butler Road Ditch
Facing: Northeast
Date/Time: Tuesday, June 19, 2012, 11:17:24 AM

IMGP0816: Push out and process wastewater from Open Lot was observed in Butler Road Ditch
Location: Along Butler Road Ditch
Facing: Northeast
Date/Time: Tuesday, June 19, 2012, 11:17:58 AM

IMGP0017: Manure and process wastewater from Open Lot was observed in Bader Road Ditch.
Location: Along Bader Road Ditch
Facing: Northeast
Date/Time: Tuesday, June 19, 2012, 11:18:18 AM

IMGP0018: Manure and process wastewater from Open Lot was observed in Bader Road Ditch.
Location: Along Bader Road Ditch
Facing: North
Date/Time: Tuesday, June 19, 2012, 11:18:28 AM

DSC09019: Manure and process waste water from east end of Open Lot drains through pathway into Bader Road Ditch
Location: Along Bader Road Ditch
Facing: North
Date/Time: Tuesday, June 19, 2012, 11:18:58 AM

DSC09020: Manure and process waste water from east end of Open Lot drains through pathway into Bader Road Ditch.
Location: Along Bader Road Ditch
Facing: Northeast
Date/Time: Tuesday, June 19, 2012, 11:19:20 AM

IMG0621: Bader Road Ditch flows east.
Location: Bader Road Ditch
Facing: Northeast
Date/Time: Tuesday, June 19, 2012, 11:19:24 AM

IMG0622: Drainage flows east into pipe. The pipe outreach with outflow pipe and flows north to outlet at the northeast corner of the Dry Cow Barn.
Location: Bader Road Ditch
Facing: Northeast
Date/Time: Tuesday, June 19, 2012, 11:19:28 AM

IMG0963: Pipe
Location: Butler Road Ditch
Facing: East
Date/Time: Tuesday, June 19, 2012, 11:21:54 AM

IMG0964: Pipe drains north and exits at the northeast corner of the Dry Cove Dam.
Location: Butler Road Ditch
Facing: Down
Date/Time: Tuesday, June 19, 2012, 11:22:06 AM

IMG0003: Pipe drains north and outlets at the northeast corner of the Dry Cow Barn.
Location: Along Bader Road Ditch
Facing: Down
Date/Time: Tuesday, June 19, 2012, 11:22:12 AM

IMG0004: River pipe outlets in drainage.
Location: Along Bader Road Ditch
Facing: North
Date/Time: Tuesday, June 19, 2012, 11:22:22 AM

PURPOSE: Sample 501 Silage Leachate taken from puddle of leachate from open silage bag.
Location: Silage Storage Area
Facing: Down
Date/Time: Tuesday, June 19, 2012, 12:33:48 PM

PURPOSE: Sample 501 Silage Leachate taken from puddle of leachate from open silage bag.
Location: Silage Storage Area
Facing: Down
Date/Time: Tuesday, June 19, 2012, 12:33:12 PM

IMGPW09: Sample 502 Ditch taken from Butler Road Ditch from culvert outlet from access road near confluence with unnamed tributary.
Location: Butler Road Ditch
Facing: Down
Date/Time: Tuesday, June 19, 2012, 12:41:16 PM

IMGPW08: Sample 502 Ditch taken from Butler Road Ditch from culvert outlet from access road near confluence with unnamed tributary.
Location: Butler Road Ditch
Facing: Down
Date/Time: Tuesday, June 19, 2012, 12:41:04 PM

IMG0003: Sample SB3 Lot taken from drainage off Open Lot in Bader Road Ditch
Location: Southeast of Open Lots
Facing: Down
Date/Time: Tuesday, June 19, 2012, 12:51:04 PM

IMG0002: Sample SB3 Lot taken from drainage off Open Lot in Bader Road Ditch
Location: Southeast of Open Lots
Facing: Down
Date/Time: Tuesday, June 19, 2012, 12:51:10 PM

20120621: Sample 504 Culvert taken from pipe outlet that drains Open Lot and Cliff Hatch Area near northeast corner of Dry Cow Barn
Location: Northeast of Dry Cow Barn
Facing: Down
Date/Time: Tuesday, June 19, 2012, 1:01:00 PM

20120621: Sample 504 Culvert taken from pipe outlet that drains Open Lot and Cliff Hatch Area near northeast corner of Dry Cow Barn
Location: Northeast of Dry Cow Barn
Facing: Down
Date/Time: Tuesday, June 19, 2012, 1:01:06 PM

IMG0060: Sample 005 (field formate taken from just west of the West Waste Holding Pond before drainage enters the neighbor's field.
Location: West of West Waste Holding Pond
Facing: Down
Date/Time: Tuesday, June 19, 2012, 1:09:48 PM

IMG0061: Sample 005 (field formate taken from just west of the West Waste Holding Pond before drainage enters the neighbor's field.
Location: West of West Waste Holding Pond
Facing: Down
Date/Time: Tuesday, June 19, 2012, 1:09:18 PM

***Note: The times on the photographs were set 1 hour behind. Time was corrected to Central Daylight Time which is not reflected in the photograph data and time stamp.**

Attachment 4: Laboratory Results

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

June 25, 2012

Eleanor Ku Cedding
Eastern Research Group, Inc.
14555 Avion Parkway
#200
Chantilly, VA 20151

RE: Project: 020S2012 DE JARDIN FARMS
Pace Project No.: 4002081

Dear Eleanor Cedding:
Enclosed are the analytical results for sample(s) received by the laboratory on June 19, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Steven Mleczko

steven.mleczko@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
920-469-2436

CERTIFICATIONS

Project: 02/03/2012 DC JARDIN (WRM2)
Pace Project No.: 40630861

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Wisconsin Certification # 999415-0-TEST
Illinois Certification # 200060
Kentucky Certification # 90
Minnesota Certification # 999-999
Minnesota Certification # 055-935-734

New York Certification # 11666
North Dakota Certification # R-150
North Dakota Certification # R-176
South Carolina Certification # 99006001
Texas Certification # T104704188-08-TX
Wisconsin Certification # 405131170

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Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 02DS0012 DE JAVON FARMS
Pace Project No.: 4062081

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4062081001	B01 BLAGE LEACHATE	Water	09/19/12 12:37	09/19/12 14:30
4062081002	B02 DITCH	Water	09/19/12 12:30	09/19/12 14:30
4062081003	B03 LOT	Water	09/19/12 12:41	09/19/12 14:30
4062081004	B04 CALVERT	Water	09/19/12 12:55	09/19/12 14:30
4062081005	B05 FIELD ENTRANCE	Water	09/19/12 13:06	09/19/12 14:30
4062081006	B06 DELANCEY	Water	09/19/12 13:25	09/19/12 14:30

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Pace Analytical Services, Inc.
1001 Bellevue Street - Suite B
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: SD0529-02 DE JARDIN FARMS
Pace Project No.: 40402801

Lab ID	Sample ID	Method	Analysis	Analytes Reported	Laboratory
40402801001	G01 DELAGE LEACHATE	GM 9222D	DEY	1	PASG-G
40402801002	G02 SITE04	GM 9222D	DEY	1	PASG-G
40402801003	G03 LCP	GM 9222D	DEY	1	PASG-G
40402801004	G04 CHAVERT	GM 9222D	DEY	1	PASG-G
40402801005	G05 FIELD ENTRANCE	GM 9222D	DEY	1	PASG-G
40402801006	G06 DE JARDIN	GM 9222D	DEY	1	PASG-G

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Pace Analytical Services, Inc.
1241 Bellevue Way NE, Suite 8
Union Bay, WY 14562
(303)469-0506

ANALYTICAL RESULTS

Project: 60D0302 DE JAYSON FARMS
Pace Project No.: 4080261

Sample: SW SLAGE LEACHATE Lab ID: 4080261001 Collected: 05/12/12 12:37 Received: 05/12/12 14:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
9223B MICRO Fecal Coli by MF	Analytical Method: SM 9223 Preparation Method: SM 9223								
Fecal Coliforms	**5100000**	CFU/100 ml.	100000	100000	100000	05/12/12 17:23	05/12/12 17:23		

Sample: SW DITCH Lab ID: 4080261002 Collected: 05/12/12 12:38 Received: 05/12/12 14:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
9223B MICRO Fecal Coli by MF	Analytical Method: SM 9223 Preparation Method: SM 9223								
Fecal Coliforms	**8100000**	CFU/100 ml.	100000	100000	100000	05/12/12 17:23	05/12/12 17:23		

Sample: SSD LOT Lab ID: 4080261003 Collected: 05/12/12 12:47 Received: 05/12/12 14:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
9223B MICRO Fecal Coli by MF	Analytical Method: SM 9223 Preparation Method: SM 9223								
Fecal Coliforms	**2400000**	CFU/100 ml.	100000	100000	100000	05/12/12 17:23	05/12/12 17:23		

Sample: SW CLARIFIT Lab ID: 4080261004 Collected: 05/12/12 12:56 Received: 05/12/12 14:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
9223B MICRO Fecal Coli by MF	Analytical Method: SM 9223 Preparation Method: SM 9223								
Fecal Coliforms	**10200000**	CFU/100 ml.	100000	100000	100000	05/12/12 17:23	05/12/12 17:23		

Sample: SW FIELD ENTRANCE Lab ID: 4080261005 Collected: 05/12/12 13:08 Received: 05/12/12 14:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
9223B MICRO Fecal Coli by MF	Analytical Method: SM 9223 Preparation Method: SM 9223								
Fecal Coliforms	**5200000**	CFU/100 ml.	100000	100000	100000	05/12/12 17:23	05/12/12 17:23		

Sample: SW DELAWARE Lab ID: 4080261006 Collected: 05/12/12 13:23 Received: 05/12/12 14:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
9223B MICRO Fecal Coli by MF	Analytical Method: SM 9223 Preparation Method: SM 9223								
Fecal Coliforms	**20**	CFU/100 ml.	1.0	1.0	1	05/12/12 17:23	05/12/12 17:23		

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Pace Analytical Services, Inc.
301 Commerce Drive, Suite 100
Exton Pa, 19341
(610)489-0900

QUALITY CONTROL DATA

Project: 02C0202102 DR JAYSON FARMS
Pace Project No.: 4082230

QC Batch: 189903394 Analysis Method: SM 9222D
QC Batch Method: SM 9222D Analysis Description: 9222D MEMB Fecal Coliform by MF
Associated Lab Samples: 4082230181, 4082230182, 4082230183, 4082230184, 4082230185, 4082230186

METRO/CLEANS: 024492 Matrix: Water
Associated Lab Samples: 4082230181, 4082230182, 4082230183, 4082230184, 4082230185, 4082230186

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fecal Coliforms	CFU/100 mL	<1	1.0	09/18/12 14:35	

SAMPLE DUPLICATE: 024492

Parameter	Units	4082230183 Result	Dup Result	RPD	Max RPD	Qualifiers
Fecal Coliforms	CFU/100 mL	41000000	74000000			

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1241 Bellevue Street - Suite 9
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(920)469-2436

QUALIFIERS

Project: 60030972 DG JAMESN FARMS
Pace Project No.: 40922081

DEFINITIONS

DF - Diluted Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Pace Reporting Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine (8270 Italian) analytic decomposes to Azobenzene.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate).
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Sample Diluted for Gross Chemistry
Hydrazine - Compound was analyzed for, but not detected.
N-Nitrosodipropylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accreditted analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

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1241 Bellevue Street - Suite D
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 020520102 DE JERONI FARMS
Pace Project No.: 40262081

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40262081001	501 BLADE LEACHATE	SM 6232D	MRC/3/2/20	SM 6232D	MRC/2/2164
40262081002	502 BTCR	SM 6232D	MRC/3/2/20	SM 6232D	MRC/2/2164
40262081003	503 LOT	SM 6232D	MRC/3/2/20	SM 6232D	MRC/2/2164
40262081004	504 GUCKET	SM 6232D	MRC/3/2/20	SM 6232D	MRC/2/2164
40262081005	505 FIELD ENTRANCE	SM 6232D	MRC/3/2/20	SM 6232D	MRC/2/2164
40262081006	506 SILAGEBAG	SM 6232D	MRC/3/2/20	SM 6232D	MRC/2/2164

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5 CHICAGO REGIONAL LABORATORY
536 SOUTH CLARK STREET
CHICAGO, ILLINOIS 60605

LABORATORY ACCREDITATION
PROGRAM
ACCREDITED CERTIFICATE
Certificate # 2200 Testing

Date: 7/18/2012

Subject: Review of Region 5 Data for: Dolcefin Farms

From: Anna Alessych, Chemist
Region 5 Chicago Regional Laboratory

To: Water Division, US EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604

The data being transmitted under this cover memo successfully passed CRL's internal data review procedures as documented in our current Quality Management Plan (QMP) and appropriate Standard Operating Procedures (SOPs). Please be aware that CRL does not perform data validation which is based on your data quality objectives. This function must be performed independently of the laboratory, generating the data.

Results in this report represent only the samples analyzed.

Please leave the U.S. EPA Project Manager/Officer and the CRL Sample Coordinator at (312) 353-8375 for any comments or questions.

Attached are Results for: Dolcefin Farms

_____ / /
Data Management Coordinator and Data Received

Date Transmitted: / /

Analyses included in this report:
Aminoda N Lab, Hardbed Nitrate-Nitrite N Lab

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone (312) 353-8020 Fax (312) 886-2184

LABORATORY INFORMATION MANAGEMENT SYSTEM
Analysis Report Form
Northern Illinois Testing

Water Division, US EPA Region 5
77 West Jackson Boulevard
Chicago IL, 60604

Project: Dioxin/Furan
Project Number: [none]
Project Manager: Cheryl Bunker

Reported:
Jul-08-12 11:13

ANALYSIS CASE NARRATIVE – Distilled Ammonia Nitrogen in Water

Work order #: 1206010
Phone #: (312) 353-9467

General Information
Six samples were prepared and analyzed for Ammonia Nitrogen on June 25, 2012 and July 2, 2012. All holding times were met.

Sample Analysis and Results
The samples were prepared and analyzed for Ammonia Nitrogen in water using CRL SOP AE029A, Revision 0. 1.4 (Reference Method, EPA 350.1). The samples were stored in the refrigerator at all times, except when in use.

Quality Control
All quality control audits were within CRL limits.

ANALYSIS CASE NARRATIVE – Nitrate-Nitrite Nitrogen in Water

Work order #: 1206010
Phone #: (312) 353-9467

General Information
Six samples were analyzed for Nitrate-Nitrite Nitrogen on June 21, 2012. All holding times were met.

Sample Analysis and Results
The samples were analyzed for Nitrate-Nitrite Nitrogen in water using CRL SOP AE031A, Revision 0.5 (Standard Method 4500 - NO3- E). Samples were stored in the refrigerator at all times except when in use. All samples except 1206010-06 were centrifuged prior to analysis to remove particulates.

Quality Control
All quality control audits were within CRL limits.

Anna Almanza, Chemist 7-10-12

Environmental Protection Agency Region 5
Chicago Regional Laboratory
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Phone (312)353-8705 Fax (312)886-2591

LABORATORY ACCREDITATION BUREAU
(ACCREDITATION NUMBER 1742)
For Drinking and Wastewater Testing

Naomi Grayson, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Dellaville Farms Project Number: [none] Project Manager: Cheryl Bender	Report ref: Jul-18-12 11:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS1	1206180-01	Water	Jun-18-12 12:07	Jun-20-12 10:40
SS2	1206180-02	Water	Jun-18-12 12:28	Jun-20-12 10:40
SS3	1206180-03	Water	Jun-18-12 12:47	Jun-20-12 10:40
SS4	1206180-04	Water	Jun-18-12 12:57	Jun-20-12 10:40
SS5	1206180-05	Water	Jun-18-12 13:06	Jun-20-12 10:40
SS6	1206180-06	Water	Jun-19-12 11:25	Jun-20-12 10:40

AA 7-18-12
Anna Akinsiju, Chemist

Environmental Protection Agency Region 5

Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone (312)353-8178 Fax (312)886-2595

LABORATORY ACCREDITATION BUREAU
Illinois Department of Public Health
Certificate # 17001 Expiring

Sam Hudson, US EPA Region 5
77 West Jackson Boulevard
Chicago IL, 60604

Project: DeSoto Farms
Project Number: [none]
Project Manager: Cheryl Dowden

Report to:
Feb-05-2010 15:15

Ammonia Nitrogen, Colorimetric, EPA 350.1 (modified)

US EPA Region 5 Chicago Regional Laboratory

SB1 (2R6810-01) Water Sampled: Jan-19-10 11:25 Received: Jan-20-10 10:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Ammonia as N	3.4		0.50	10.0	mg/L	50	B2K0321	Jan-25-10	Jan-25-10

SB2 (2R6810-02) Water Sampled: Jan-19-10 12:38 Received: Jan-20-10 10:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Ammonia as N	0.19		0.18	1.00	mg/L	10	B2K0321	Jan-25-10	Jan-25-10

SB3 (2R6810-03) Water Sampled: Jan-19-10 12:47 Received: Jan-20-10 10:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Ammonia as N	0.19		0.18	1.00	mg/L	10	B2K0321	Jan-25-10	Jan-25-10

SB4 (2R6810-04) Water Sampled: Jan-19-10 12:55 Received: Jan-20-10 10:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Ammonia as N	24.7		2.75	15.0	mg/L	20	B2K0321	Jan-25-10	Jan-25-10

SB5 (2R6810-05) Water Sampled: Jan-19-10 12:06 Received: Jan-20-10 10:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Ammonia as N	18.4		0.90	20.0	mg/L	50	B2K0321	Jan-25-10	Jan-25-10

B06 (2R6810-06) Water Sampled: Jan-19-10 13:25 Received: Jan-20-10 10:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Ammonia as N	U		0.11	0.50	mg/L	1	B3K0011	Feb-05-10	Feb-05-10

AA 7-10-12

Anita Armitage, Chemist

Environmental Protection Agency Region 5

Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
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LABORATORY ACCREDITATION BUREAU
Certificate # 1895 Expiration Date: 07/01/2010
Certificate # 2280 Testing

Water Division, US EPA Region 5
77 West Jackson Boulevard
Chicago IL, 60604

Project: Bulletin Farms
Project Number: (none)
Project Manager: Cheryl Beckett

Reported:
10/29/10 11:15

Nitrate - Nitrite Nitrogen, SM 4500E (modified)

US EPA Region 5 Chicago Regional Laboratory

S01 (1286040-01) Water Sampled: Jan-19-12 12:27 Received: Jan-20-12 10:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Nitrate-Nitrite N	0.07		0.04	0.05	mg/L	1	0120318	Jan-20-12	Jan-20-12

S02 (1286040-02) Water Sampled: Jan-19-12 11:20 Received: Jan-20-12 10:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Nitrate-Nitrite N	0.08		0.04	0.05	mg/L	1	0120318	Jan-20-12	Jan-20-12

S03 (1286040-03) Water Sampled: Jan-19-12 13:47 Received: Jan-20-12 10:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Nitrate-Nitrite N	[illegible]		0.04	0.05	mg/L	1	0120318	Jan-21-12	Jan-21-12

S04 (1286040-04) Water Sampled: Jan-19-12 12:55 Received: Jan-20-12 10:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Nitrate-Nitrite N	0.04		0.04	0.05	mg/L	1	0120318	Jan-21-12	Jan-21-12

S05 (1286040-05) Water Sampled: Jan-19-12 13:06 Received: Jan-20-12 10:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Nitrate-Nitrite N	0.		0.04	0.05	mg/L	1	0120318	Jan-21-12	Jan-21-12

S06 (1286040-06) Water Sampled: Jan-19-12 13:28 Received: Jan-20-12 10:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Nitrate-Nitrite N	U		0.04	0.05	mg/L	1	0120318	Jan-21-12	Jan-21-12

AA 7-10-12

Anna Alexandra, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-6170 Fax:(312)886-2561

LABORATORY ACCREDITATION BUREAU
Certificate Number: L10-066
Certificate Valid Through

Water Division, 19 STA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Dolomite Flume Project Number: [None] Project Manager: Cheryl Bramlett	Reported: Jul-10-13 11:32

Notes and Definitions

* This Quality Control measure meets the requirements of the CRL SOP for this analyte.

U Not Detected

ND Not Reported

AA 7/10/13

Aaron Alonzo QA Chemist

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5 CHICAGO REGIONAL LABORATORY
536 SOUTH CLARK STREET
CHICAGO, ILLINOIS 60605

LABORATORY ACCREDITATION PROGRAM
Accredited by the Environmental Laboratory Accreditation Conference (ELAC) Under NELAC Standards

Date: 7/12/2012

Subject: Review of Region 5 Data for DuEarlis Farms

From: Nidia Fuentes, Analyst
Region 5 Chicago Regional Laboratory

To: Water Division, US EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604

The data being transmitted under this cover memo successfully passed CRL's internal data review procedures as documented in our current Quality Management Plan (QMP) and appropriate Standard Operating Procedures (SOPs). Please be aware that CRL does not perform data validation which is based on your data quality objectives. This function must be performed independently of the laboratory generating the data.

Results in this report represent only the samples analyzed.

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at (312) 353-8255 for any comments or questions.

Attached are Results for: DuEarlis Farms

7/12/12

Data Management Coordinator and Date Received

Data Transmitted: 7/12/12

Analyses included in this report:

TKN/DA Total Phosphorus DA

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8078 Fax:(312)886-2991

LABORATORY ACCREDITATION
ACCREDITED
NELAP/ELAP#100001-2700
Authorized: Cliff Dorkin

Water Division, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Dechaille Farms Project Number: [none] Project Manager: Cheryl Dorsten	Reported: Jul 12, 12 12:18:55

ANALYSIS CASE NARRATIVE
312-353-9079

General Information

Total of six samples to be analyzed for Total Phosphorus (TP) were received at the Chicago Regional Laboratory on June 20, 2012. Holding time was met.

Sample Analysis and Results

The samples for TP were digested and analyzed using CRL SOP AE0034A, Revision # 3.6 (EPA method 365.4.)

Quality Control

All quality control audits were within the CRL's limits, with the exception of matrix spike.

Sample 1206010-01, DUP and MS required dilutions; the spike was diluted out. No flag applies to this situation.

ANALYSIS CASE NARRATIVE
312-353-9079

General Information

A total of six water samples to be analyzed for Total Kjeldahl Nitrogen (TKN) were received at the Chicago Regional Laboratory ON June 20, 2012. All holding times were met.

Sample Analysis and Results

The water samples were digested and analyzed using AE0035A, revision 2.6 (Standard method 351.2).

Quality Control

Nidia Ribeiro, Analyst

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LABORATORY ACCREDITATION BUREAU
Certificate #2007-01 Expiration Date: 10/31/2008
Certificate #2007-01 Testing

Water Division, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Dechelle Farms Project Number: [none] Project Manager: Cheryl Burdett	Reported: Jul 12 12 10:55

All quality control audits were within the CRL limits, with the exception of matrix spike.

Sample 1206010-01, DUP and MS required dilutions; the spike was diluted ooz. No flag applies to this situation.

Nilda Paredes, Analyst

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Chicago Regional Laboratory
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LABORATORY ACCREDITATION BUREAU
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Certificate Number 1359.01

Water Division, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Dichelle Farms Project Number: [none] Project Manager: Cheryl Hackett	Reported: Feb 12-12 11:18:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
581	1206010-01	Water	Jan-18-12 12:27	Jan-28-12 10:40
582	1206010-02	Water	Jan-18-12 12:28	Jan-28-12 10:40
583	1206010-03	Water	Jan-18-12 12:47	Jan-28-12 10:40
584	1206010-04	Water	Jan-19-12 12:52	Jan-28-12 10:40
585	1206010-05	Water	Jan-19-12 10:06	Jan-28-12 10:40
586	1206010-06	Water	Jan-19-12 10:25	Jan-28-12 10:40

Nidia Fuentes, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
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LABORATORY ACCREDITATION PROGRAM
ISO 17025:2005 (ANSI-ASQ National Accreditation Board)

Water Division, US EPA Region 5
77 West Jackson Boulevard
Chicago IL, 60604

Project: Schedule Forms
Project Number: [none]
Project Manager: Cheryl Bartlett

Reported:
Jul-12-13 08:50

Phosphorus, Colorimetric, EPA 365.4 (modified)
US EPA Region 5 Laboratory, Chicago, Illinois

581 (1306010-01) Water Sampled: Jun-19-13 12:27 Received: Jun-20-13 18:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Phosphorus	417		8.44	500	mg/L	20	B206057	Jun-20-13	Jun-27-13

582 (1306010-02) Water Sampled: Jun-19-13 12:58 Received: Jun-20-13 18:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Phosphorus	4.84		0.34	1.00	mg/L	10	B206052	Jun-20-13	Jun-23-13

583 (1306010-03) Water Sampled: Jun-19-13 12:47 Received: Jun-20-13 18:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Phosphorus	46.3		0.68	1.00	mg/L	10	B206052	Jun-20-13	Jun-23-13

584 (1306010-04) Water Sampled: Jun-19-13 12:55 Received: Jun-20-13 18:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Phosphorus	13.2		0.50	1.00	mg/L	20	B206052	Jun-20-13	Jun-23-13

585 (1306010-05) Water Sampled: Jun-19-13 13:06 Received: Jun-20-13 18:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Phosphorus	21.4		0.68	1.00	mg/L	20	B206052	Jun-20-13	Jun-23-13

586 (1306010-06) Water Sampled: Jun-19-13 13:20 Received: Jun-20-13 18:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Phosphorus	5		0.51	0.75	mg/L	1	B206052	Jun-20-13	Jun-23-13

Nidal Fannin, Analyst

Environmental Protection Agency Region 5

Chicago Regional Laboratory

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Phone(312)353-8570 Fax(312)886-2191

LABORATORY INFORMATION MANAGEMENT SYSTEM
Version 6.2.0.0 (Oracle Forms 6.0.8.17.0)

Water Division, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Dekalb Farms Project Number: [none] Project Manager: Cheryl Bankert	Reported: Jul-12-12 11:33

Total Kjeldahl Nitrogen, EPA 351.2 (modified)

US EPA Region 5 Chicago Regional Laboratory

501 (120608-01) Water Sampled: Jun-08-12 11:07 Received: Jun-08-12 10:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Kjeldahl Nitrogen	2.12		0.50	10.0	mg/L	20	R106025	Jun-26-12	Jun-27-12

502 (120608-02) Water Sampled: Jun-08-12 12:05 Received: Jun-08-12 10:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Kjeldahl Nitrogen	19.6		3.00	5.00	mg/L	20	R106025	Jun-26-12	Jun-27-12

503 (120608-03) Water Sampled: Jun-08-12 13:47 Received: Jun-08-12 10:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Kjeldahl Nitrogen	1.12		0.50	10.0	mg/L	20	R106025	Jun-26-12	Jun-27-12

504 (120608-04) Water Sampled: Jun-08-12 12:50 Received: Jun-08-12 10:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Kjeldahl Nitrogen	18.3		3.00	5.00	mg/L	10	R106025	Jun-26-12	Jun-27-12

505 (120608-05) Water Sampled: Jun-08-12 13:35 Received: Jun-08-12 10:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Kjeldahl Nitrogen	8.32	J	0.50	0.90	mg/L	1	R106025	Jun-26-12	Jun-27-12

Mark Hudson, Analyst

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Phone:(312)353-8378 Fax:(312)886-1091

LABORATORY ACCREDITATION BUREAU
ACCREDITED PROFICIENCY TESTING PROGRAM
Certificate #2007 Testing

Water Division, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Dechlorin Fixture Project Number: [none] Project Manager: Cheryl Burdett	Reported: Jul-12-12 18:10

Notes and Definitions

J The identification of the analyte is acceptable; the reported value is an estimate.

U Not Detected

NR Not Reported

Nidia Fuentes, Analyst

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5 CHICAGO REGIONAL LABORATORY
536 SOUTH CLARK STREET
CHICAGO, ILLINOIS 60605

LABORATORY ACCREDITATION BUREAU
ACCREDITATION NUMBER: 175201
Certificate #: L2002 Testing

Date: 7/13/2012

Subject: Review of Region 5 Data for Bucherite Farms

From: Lauraiene Wong, Analyst
Region 5 Chicago Regional Laboratory

To: Water Division, US EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604

The data being transmitted under this cover memo successfully passed CRL's internal data review procedures as documented in our current Quality Management Plan (QMP) and appropriate Standard Operating Procedures (SOPs). Please be aware that CRL does not perform data validation which is based on your data quality objectives. This function must be performed independently of the laboratory generating the data.

Results in this report represent only the samples analyzed.

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at (312) 353-0175 for any comments or questions.

Attached are Results for: Bucherite Farms

_____ / /
Data Management Coordinator and Date Received

Date Transmitted: / /

Analyses included in this report:
Solids, TDS Solids, TSS

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8379 Fax:(312)886-2368

LABORATORY ACCREDITATION PROGRAM
ACCREDITED FOR:
Certificate #2180 Testing

Water Division, US EPA Region 5
77 West Jackson Boulevard
Chicago IL, 60604

Project: Pebbles Farm
Project Number: Jewel
Project Manager: Cheryl Enzler

Reportedt:
08-03-02 17:39

ANALYSIS CASE NARRATIVE

Analyst Phone number: 312-353-8418

General Information

Six (6) samples were received on June 20, 2002 under Work Order #1206018 for Total Dissolved Solids (TDS) and Total Suspended Solids (TSS) analyses. The sample preparation and analyses began on June 25, 2002, and ended on June 26, 2002. Because of the limited sample volume of particulates in most of the same-lot sample sample #1206018-001 which caused long filtration times or really clogged the filters, more sample volume analyzed were less than the typical volume of 50 mL for the TSS analyses, and no more than 50 mL for TDS analyses, much less than the typical volume of 500 mL.

Sample Analysis and Results

For TSS analysis, preparation and testing of the samples followed procedure CEL SOP AE2013, Revision 5.0: (A) Standard Method 2540D. Total Solids Dried at 103-105°C. Because of limited sample volume, and because the samples #1206018-001 - 006 had only 0.5 mL each, and only 10.0 mL each for samples #1206018-002 and -003, the samples #1206018-001 was tested with the typical sample volume of 50 mL. Note: Volume quantities marks in the Pulse-We system is called the filtered measure: 50, 5, 2.5 and 1.0 mL.

For TDS analysis, preparation and testing of the samples followed procedure CEL SOP AE2013, Revision 5.0: (B) Standard Method 2540D. To keep the filtering time below 10 minutes, only one sample, #1206018-001, was tested with the typical sample volume of 500 mL. Samples #1206018-002 and 003, #1206018-004 and 005, #1206018-001 and 2-6 ph, and samples #1206018-002 and #1206018-003 and 50.0 mL each.

Quality Control

The required quality control criteria for the laboratory, method, and system performance matrix followed CRL guidelines. They were evaluated and determined to be within the CRL's QC limits.

Signature: Lorraine Wing Date: July 13, 2002

7/16/02
Lorraine Wing, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-6279 Fax:(312)886-2591

LABORATORY ACCREDITATION BUREAU
ISO/IEC 17025:2005 PROJECT CODE: Excellence in Quality Testing

Water Division, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Dechelle Farms Project Number: [none] Project Manager: Cheryl Bartlett	Reported: Jul-02-12 17:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB1	1206018-01	Water	Jun-18-12 12:27	Jun-20-12 10:40
SB2	1206018-02	Water	Jun-18-12 12:18	Jun-20-12 10:40
SS5	1206018-03	Water	Jun-19-12 12:47	Jun-20-12 10:40
SS6	1206018-04	Water	Jun-19-12 13:55	Jun-20-12 10:40
SS7	1206018-05	Water	Jun-19-12 13:00	Jun-20-12 10:40
SS8	1206018-06	Water	Jun-19-12 12:25	Jun-20-12 10:40

7/2/12
Laurence Wong, Analyst

Environmental Protection Agency Region 5

Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8178 Fax:(312)886-2191

LABORATORY INFORMATION MANAGEMENT SYSTEM
FOR
FECHEM/NEPTUNE/VISTA
Certificate # 1880 Testing

Water Divisions, US EPA Region 5
77 West Jackson Boulevard
Chicago IL, 60604

Project: Dechorlis Pierce
Project Number: (none)
Project Manager: Cheryl Bechler

Reported:
10-15-12 17:29

Dissolved Solids, SM 2540C (modified)

US EPA Region 5 Chicago Regional Laboratory

900 (1206018-01) Water Sampled: Jun-28-12 12:17 Received: Jun-28-12 10:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Dissolved Solids	3400			20.0	mg/L	1	B306011	Jun-29-12	Jun-29-12

902 (1206018-02) Water Sampled: Jun-19-12 11:28 Received: Jun-28-12 10:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Dissolved Solids	828			20.0	mg/L	1	B306011	Jun-29-12	Jun-29-12

903 (1206018-03) Water Sampled: Jun-27-12 15:47 Received: Jun-28-12 10:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Dissolved Solids	1400			20.0	mg/L	1	B306011	Jun-29-12	Jun-29-12

904 (1206018-04) Water Sampled: Jun-19-12 12:55 Received: Jun-28-12 10:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Dissolved Solids	1400			20.0	mg/L	1	B306011	Jun-29-12	Jun-29-12

905 (1206018-05) Water Sampled: Jun-19-12 13:04 Received: Jun-28-12 10:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Dissolved Solids	2000			20.0	mg/L	1	B306011	Jun-29-12	Jun-29-12

906 (1206018-06) Water Sampled: Jun-19-12 13:25 Received: Jun-28-12 10:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Dissolved Solids	0			20.0	mg/L	1	B306011	Jun-29-12	Jun-29-12

Lawrence Wong, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8278 Fax:(312)886-2591

LABORATORY ACCREDITATION BUREAU
Certificate Number: 1029
Certificate Expiration Date: 12/31/2010
Certificate Scope: Drinking Water

Water Division, US EPA Region 5
77 West Jackson Boulevard
Chicago IL, 60604

Project: Dethrifts Pieces
Project Number: [none]
Project Manager: Cheryl Brooker

Sequence#:
NJ-12-12-1739

Total Suspended Solids, SM 2540 D (modified)
US EPA Region 5 Chicago Regional Laboratory

501 (1206010-01) Water Sampled: Jun-29-12 12:07 Received: Jun-29-12 10:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Suspended Solids	232			5	mg/L	1	D206015	Jun-29-12	Jun-29-12

502 (1206010-02) Water Sampled: Jun-29-12 12:38 Received: Jun-29-12 10:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Suspended Solids	282			5	mg/L	1	D206016	Jun-29-12	Jun-29-12

503 (1206010-03) Water Sampled: Jun-29-12 12:47 Received: Jun-29-12 10:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Suspended Solids	1			5	mg/L	1	D206016	Jun-29-12	Jun-29-12

504 (1206010-04) Water Sampled: Jun-29-12 12:55 Received: Jun-29-12 10:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Suspended Solids	1170			5	mg/L	1	D206016	Jun-29-12	Jun-29-12

505 (1206010-05) Water Sampled: Jun-29-12 13:06 Received: Jun-29-12 10:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Suspended Solids	84			5	mg/L	1	D206016	Jun-29-12	Jun-29-12

506 (1206010-06) Water Sampled: Jun-29-12 13:20 Received: Jun-29-12 10:40

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Suspended Solids	U			5	mg/L	1	D206016	Jun-29-12	Jun-29-12

7/9/12
Laurence Wang, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8570 Fax:(312)886-2591

LABORATORY INFORMATION MANAGEMENT SYSTEM
ACCREDITED BOREC OFFS
Certificate #: LIMS Testing

Water Division, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Dechelle Farmer Project Number: [none] Project Manager: Cheryl Burdett	Reported: Jul-13-12 17:39

Notes and Definitions

U Not Detected

NR Not Reported

Lawrence Wong, Analyst

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5 CHICAGO REGIONAL LABORATORY
536 SOUTH CLARK STREET
CHICAGO, ILLINOIS 60605

LABORATORY ACCREDITATION BUREAU
(ANSI-ASQC)
Certificate # 1267 Testing

Date: 7/27/2012

Subject: Review of Region 5 Data for DeAcidin Farms

From: Carla Brecklin, Chemist
Region 5 Chicago Regional Laboratory

CB 7/26/12

To: Water Division, US EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604

The data being transmitted under this cover memo successfully passed CRL's internal data review procedures as documented in our current Quality Management Plan (QMP) and appropriate Standard Operating Procedures (SOPs). Please be aware that CRL does not perform data validation which is based on your data quality objectives. This function must be performed independently of the laboratory generating the data.

Results in this report represent only the samples analyzed.

Please have the U.S. EPA Project Manager/Officer and the CRL Sample Coordinator at (312) 353-0255 for any comments or questions.

Attached are Results for: DeAcidin Farms

Data Management Coordinator and Date Received

Date Transmitted: / /

Analyses included in this report:
SGD

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone (312)353-6719 Fax (312)886-2591

LABORATORY DESCRIPTION
Phone (312) 886-2500
Fax (312) 886-2591
Delivery Code: 7-6-0

Mary Dreska, CR EPA Region 5
77 West Jackson Boulevard
Chicago IL 60604

Project: Dalton Dickey
Project Number: [none]
Project Manager: Daryl Bartell

Reported:
3/22/2012 10:00

ANALYSIS CASE NARRATIVE

Analyst Phone Number: (312) 886 - 2912

General Information

Six samples were analyzed for biochemical oxygen demand, 5 day (BOD5) on June 20, 2012. All holding times were met.

A Chicago Regional Laboratory (CRL) Per diem Lab Manager was approved on 7/2/2012, which updated the limit for Duplicate Relative Percent Deviation (RPD) for CRL SOP AE0106, Revision No: 3.3 (SM 5210B) based on historical data collected at CRL.

Sample Analysis and Results

The six samples were prepared and analyzed according to CRL SOP AE0106, Revision No: 3.3 (SM 5210B).

Because of a malfunctioning incubation chamber the six samples were not incubated at the designated temperature of 20 ± 1 °C. While the incubation chamber was set at 18 °C, and the read out on the incubation chamber equipment showed 20 °C, the actual average temperature over the 5 day incubation period, as measured by certified monitoring equipment, was 17.6 °C, and ranged from 17.3 °C to 18.1 °C. Therefore, all six samples were flagged "P" - the identification of the analyte is acceptable; the reported value is an estimate.

Note: The temperature control in the incubation chamber was corrected and has been able to maintain 20 ± 1 °C.

In addition, the result for sample 1206010-06 (SS6 Field Blank) was flagged "P". See below, under Quality Control, for an explanation.

Quality Control

All quality control (QC) audits followed CRL guidelines. The required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within CRL QC limits, except as follows:

CR 3/27/12

Colin Hendrix, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8703 Fax:(312)886-2381

LABORATORY ACCREDITATION PROGRAM
ACCREDITED
0429316-TX,2387,NELAP

Water Division, CE/EIS Region 5	Project: Kalamazoo Farms	
77 West Jackson Boulevard	Project Number:	Report id:
Chicago IL, 60604	Project Manager: Cheryl Bendell	2012-11-08-001

Field Blank

Analysis of the Field Blank designated sample 1206010-06 (9060Field Blank) resulted in a dissolved oxygen (DO) depletion less than the limit of 2 mg/L DO. Therefore, sample 1206010-06 (9060Field Blank) was flagged "J" - the identification of the analyte is acceptable; the reported value is an estimate. No significant impacts are expected for the overall data set from this QC excursion.

Signature: CB Bendell Date: 7/27/2012

CB 7/27/12

Carla Brandon, Chemist

Environmental Protection Agency Region 5

Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8378 Fax:(312)886-2591

LABORATORY ACCREDITATION
PROGRAM
ACCREDITED Clean Water Fields
Certificate #12005 Testing

Water Division, 230 ESA Region 5
77 West Jackson Boulevard
Chicago IL, 60604

Project: Deltville Some
Project Number: [none]
Project Manager: Cheryl Bender

Reported:
Jun-27-12 08:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
304	1206018-04	Water	Jun-13-12 12:31	Jun-13-12 12:40
502	1206018-02	Water	Jun-13-12 12:31	Jun-13-12 12:40
503	1206018-03	Water	Jun-13-12 12:47	Jun-13-12 12:40
505	1206018-05	Water	Jun-13-12 12:31	Jun-13-12 12:40
506	1206018-06	Water	Jun-13-12 11:46	Jun-13-12 12:40
506	1206019-06	Water	Jun-13-12 12:25	Jun-13-12 12:40

CB 7/27/12

Cathy Brooks, Chemist

Environmental Protection Agency Region 5

Chicago Regional Laboratory

LABORATORY INFORMATION MANAGEMENT SYSTEM
(LIMS) REPORT FORM
0x0000-VL001 Setup

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8170 Fax:(312)886-2181

Mail Address: US EPA Region 5	Project: Enforcement	
77 West Jackson Boulevard	Project Number: [none]	Reported:
Chicago IL 60605	Project Manager: Cheryl Barton	Jul-27-12 00:00

BOD, 5-day, SM 5210 B (modified)

US EPA Region 5 Chicago Regional Laboratory

501 (1206549-01) Water Sampled: Jun-09-12 12:17 Received: Jun-09-12 10:45

Analyte	Result	Dilution Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Biochemical Oxygen Demand	1200	2	3	3	mg/L	1	B20017	Jun-20-12	Jun-20-12

502 (1206549-02) Water Sampled: Jun-09-12 13:38 Received: Jun-09-12 10:45

Analyte	Result	Dilution Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Biochemical Oxygen Demand	168	2	3	3	mg/L	1	B20017	Jun-20-12	Jun-20-12

503 (1206549-03) Water Sampled: Jun-09-12 15:47 Received: Jun-09-12 10:45

Analyte	Result	Dilution Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Biochemical Oxygen Demand	1200	2	3	3	mg/L	1	B20017	Jun-20-12	Jun-20-12

504 (1206549-04) Water Sampled: Jun-09-12 17:05 Received: Jun-09-12 10:45

Analyte	Result	Dilution Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Biochemical Oxygen Demand	500	2	3	3	mg/L	1	B20017	Jun-20-12	Jun-20-12

505 (1206549-05) Water Sampled: Jun-09-12 18:44 Received: Jun-09-12 10:45

Analyte	Result	Dilution Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Biochemical Oxygen Demand	400	2	3	3	mg/L	1	B20017	Jun-20-12	Jun-20-12

506 (1206549-06) Water Sampled: Jun-09-12 19:42 Received: Jun-09-12 10:45

Analyte	Result	Dilution Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Biochemical Oxygen Demand	8	1	3	3	mg/L	1	B20017	Jun-20-12	Jun-20-12

CB 7/27/12

Colin Brooks, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory
310 South Clark Street, Chicago, IL 60605
Phone:(312)353-6170 Fax:(312)886-2351

LABORATORY ACCREDITATION PROGRAM
ACCREDITED CERTIFICATE #2260
Certificate #2260 Testing

Name Decorators, LTD DBA Hughes 5	Project Schedule Survey		
771 West Jackson Boulevard	Project Number: 2660[illegible]		Reported:
Chicago IL, 60661	Project Manager: Cheryl Dunlap		Jul 27 12 10:00

Notes and Definitions

I The identification of the analyte is acceptable, the reported value is an estimate.

U Not Detected

NR Not Reported

CB 7/27/12
Cribe Breslin, Chemist