



**Environmental
Protection Agency**

Ted Strickland. Governor
Lee Fisher. Lt. Governor
Chris Korleski. Director



1PK0000820110318

CLERMONT NINE MILE CREEK WWTP

WARE, RONALD

2011/03/18



Environmental
Protection Agency

John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

March 17, 2011

Tom Yeager, Director of Utilities
Clermont County Water Resources Department
4400 Haskell Lane
Batavia, Ohio 45103

**RE: Nine Mile Regional WWTP, NPDES Permit No. 1PK00008*JD / OH0049361
Compliance Evaluation Inspection**

Dear Mr. Yeager:

On Thursday, March 3, 2011, I conducted a Compliance Evaluation Inspection at the above referenced facility. Bill Beyer (WSD Supervisor), Dave Wainscott, and Dave Linville represented Clermont County during the inspection. The purpose of the inspection was to evaluate several aspects of plant operation and performance. A copy of the inspection report is enclosed. As indicated in the report, all areas evaluated during the inspection were rated as satisfactory. No response or corrective action is required at this time.

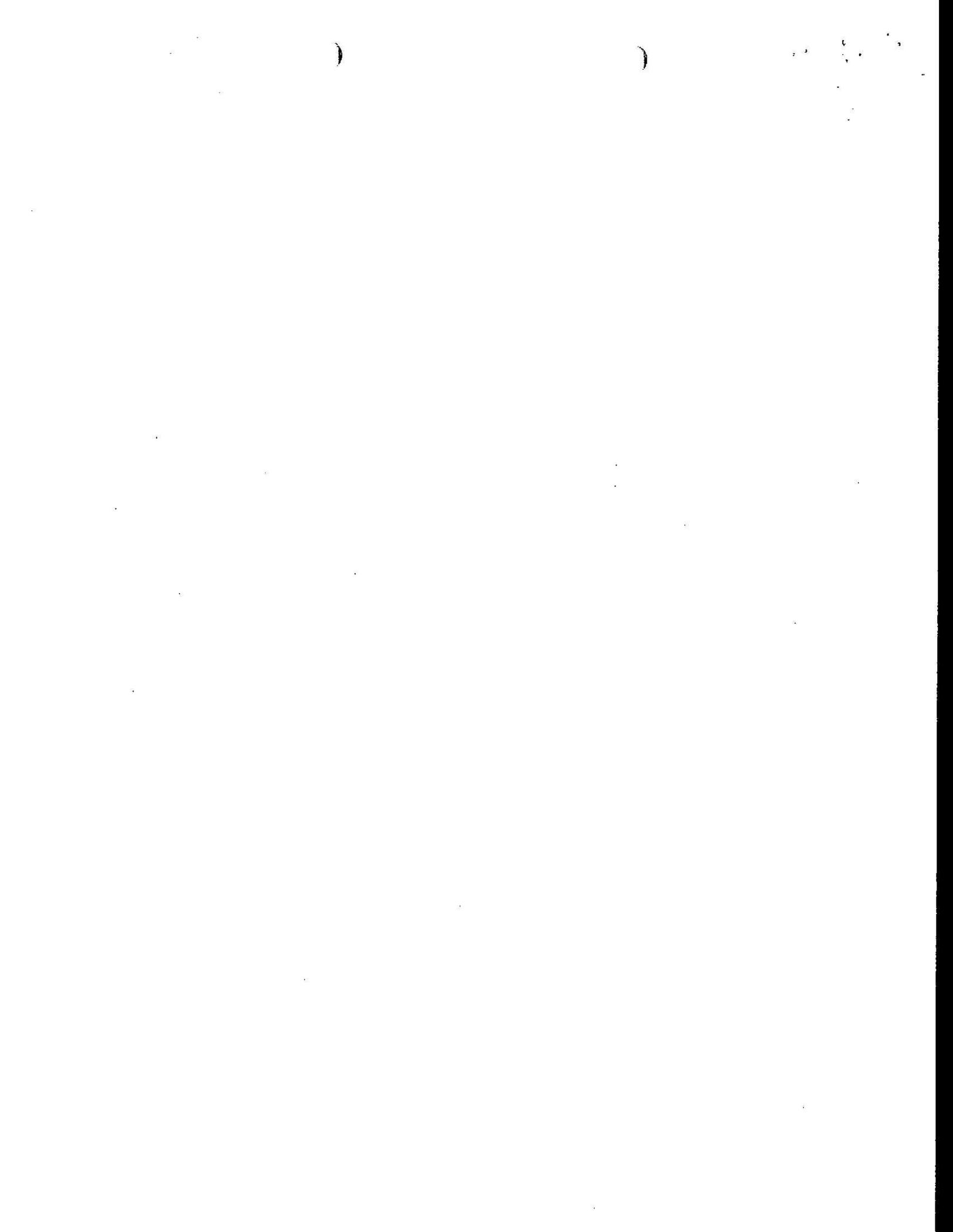
If you have any questions regarding this report, please contact me at (937) 285 - 6098.

Sincerely,

Ron Ware
Ohio EPA - Division of Surface Water
Southwest District Office

RW/rb

cc: Steve Knipp, Clermont County Water Resources Department
Bill Beyer, Clermont County Water Resources Department





State of Ohio Environmental Protection Agency
Southwest District Office

NPDES Compliance Inspection Report

Section A: National Data System Coding					
Permit #	NPDES#	Month/Day/Year	Inspection Type	Inspector	Facility Type
1PK00008*KD	OH0049361	03/03/2011	C	S	1

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Clermont Co – Nine Mile Regional WWTP 560 Locust Corner Road New Richmond, Ohio, Clermont County	9:20 AM	August 1, 2009
	Exit Time	Permit Expiration Date
	11:20 AM	July 31, 2013
Name(s) and Title(s) of On-Site Representatives		Phone Number(s)
Bill Beyer, WSD Supervisor David Wainscott, Chief Operator David Linville, Operator		(513) 732 - 7047 (513) 732 - 7040
Name, Address and Title of Responsible Official		Phone Number
Tom Yeager, Utilities Director Clermont County Water & Sewer District 2379 Clermont Center Drive Batavia, Ohio 45103		(513) 732 - 7930

Section C: Areas Evaluated During Inspection					
(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)					
S	Permit	S	Flow Measurement	N/A	Pretreatment
S	Records/Reports	S	Laboratory	N/A	Compliance Schedule
S	Operations & Maintenance	S	Effluent/Receiving Waters	S	Self-Monitoring Program
S	Facility Site Review	S	Sludge Storage/Disposal	N	Other
N	Collection System				

Section D: Summary of Findings (Attach additional sheets if necessary)	
Inspector	Date
Ron Ware	3/17/11
Ron Ware Division of Surface Water Southwest District Office	

Permit #: 1PK00008*KD
 NPDES #: OH00493

Sections E thru K: Complete on all inspections as appropriate
 Y – Yes, N – No, N/A – Not Applicable, N/E – Not Evaluated

Section E: Permit Verification

Inspection observations verify the permit

- (a) Correct name and mailing address of permittee Y
- (b) Flows and loadings conform with NPDES permit..... Y
- (c) Treatment processes are as described in permit application... Y
- (d) New treatment process(es) added since last inspection..... Y
- (e) All discharges are permitted..... Y
- (f) Number and location of discharge points are as described
in permit..... Y
- (g) Storm water discharges properly permitted..... Y

Comments/Status:

comment (d)
 A new influent bar screen was installed in 2010.

Section F: Compliance

- (a) Any violations since the last inspection..... Y
- (b) Appropriate Non-compliance notification of violations..... Y
- (c) Permittee is taking actions to resolve violations..... Y
- (d) Has biomonitoring shown toxicity in discharge since last inspection N

Comments/Status:

Comments (a) and (b)

(Period of Review: May 2009 – May 2010)
 7D = Weekly 30D = Monthly 1D = Daily
 Conc. = Concentration (mg/l) Qty. = Quantity (Kg/Day)

Reporting Period	Parameter	Limit Type	Limit	Reported Value
Oct. 2010	Nitrogen, Ammonia (NH ₃)	7D Conc	14.1	14.3
Oct. 2010	Fecal Coliform	7D Conc	400	590

As explained in a letter dated November 15, 2010 from Bill Beyer. One of the secondary clarifiers was off-line for an extended time period due to the need to repair a collector arm drive. The effluent limitation violations in October 2010 occurred during the time that this clarifier was returned to service.

Section G: Operation & Maintenance

Treatment Works:

Treatment facility properly operated and maintained

- (a) Standby power available.....generator or dual feed Y
 - i. What does the back-up power source operate.....

Whole treatment plant (except lights in lab room).
 - ii. How often is the generator tested under load.....

Once a week (every Tuesday).

- (b) Which components have an alarm system available for power or equipment failures.....

Influent pumps, sludge pumps, secondary clarifier drives, aerators, generator.

- (c) All treatment units in service other than backup units..... Y
- (d) What method is used for scheduling routine & preventative maintenance (calendar, software, etc.).....

Computer software.

- (e) Any major equipment breakdown since last inspection..... Y
- (f) Operation and maintenance manual provided and maintained..... N
- (g) Any plant bypasses since last inspection..... N
- (h) Any plant upsets since last inspection..... Y

Comments/Status:

Comments (e) and (h)

As explained in a letter dated November 15, 2010 from Bill Beyer. One of the secondary clarifiers was off-line for an extended time period due to the need to repair a collector arm drive. The effluent limitation violations in October 2010 occurred during the time that this clarifier was returned to service.

Section G: Operation & Maintenance con't

Record Keeping/Operator of Record:

- (a) Wastewater Treatment Works classification (OAC 3745-7)..... III
- (b) Operator of Record holds unexpired license of class required by Permit..... Y
- (c) Copy of certificate of Operator of Record displayed on-site..... Y
- (d) Has the Operator of Record submitted an ORC Notification form.. Y
- (e) Minimum operator staffing requirements fulfilled (OAC 3745-7).... Y
- (f) If a Staffing Reduction plan has been approved, are the stipulations of the plan being met..... Y
- (g) Operator of Record log book provided..... Y
- (h) Format of log book (e.g. computer log, hard bound book)

Hard bound book.
- (i) Log book kept onsite (in an area protected from weather)..... Y
- (j) Log book contains the following:
 - I. Identification of treatment works..... Y
 - II. Date/times of arrival/departure for Operator of Record and any other operator required by OAC 3745-7..... Y
 - iii. Daily record of operator and maintenance activities (including preventative maintenance, repairs and request for repairs, process control test results, etc.)..... Y
 - iv. Laboratory results (unless documented on bench sheets)... N
 - v. Identification of person making entries..... Y
- (k) Has the Operator of Record submitted written notifications to the permittee, Ohio EPA and, if applicable, any local environmental agencies when a collection system overflow, treatment plant bypass or effluent limit violation has occurred..... Y

Comments/Status:

Comments (j)

Preventative maintenance records are kept in separate log books. Laboratory results are also kept in separate log books.

Section G: Operation & Maintenance con't

Collection System:

- (a) Are there pump stations in the collection system..... Y (13)
 - i. How many publicly-owned pump stations equipped with permanent standby power or equivalent..... 5
 - ii. How many pump stations have telemetered alarms..... 13
 - iii. How many pump stations have operable alarms..... 13

- (b) Any collection system overflows since last inspection..... Y
- (c) Regulatory agency notified of all overflows..... Y
- (d) Are there CSOs in the collection system..... N
if so, what is the LTCP status.....

N/A

- (e) How are CSOs monitored (chalk, block, level sensor, etc.).....

N/A

- (f) Portable pumps available for collection system maintenance..... Y
- (g) RDII Program established and active..... Y
- (h) Any WIB complaint received since last inspection..... N
- (i) Is there a WIB response plan..... Y
- (j) Is any portion of the collection system at or near dry weather capacity..... N

Comments/Status:

Comments (b) and (c)

A 5 Day SSO report was received by the Ohio EPA Southwest District Office in August 2009 concerning an overflow at manhole # 6315 (which is 385 feet from the treatment plant). A failure of the influent pumps and the high water alarm system on the morning of August 4, 2009 caused a sewer back-up and an overflow from manhole # 6315. One of the plant operators reset the influent pumps and the high water alarm system when he arrived for the day.

Class B Sewage Sludge (monitoring station 581)

Pathogen Reduction Alternative	84370 Vector Attraction Reduction Options									
	Option 1 -38% Volatile Solids Reduction	Option 2 -Anaerobic Bench Scale Analysis	Option 3 -- Aerobic Bench Scale Analysis	Option 4 - Specific Oxygen Uptake Rate	Option 5 - Aerobic Time and Temperature	Option 6 - Alkali Addition	Option 7 - >75% Percent Solids without Unstabilized	Option 8 - >75% Percent Solids with Unstabilized	Option 9 - Land Injection	Option 10 - Immediate Incorporation
Alternative 1 - Geometric Mean of Seven Fecal Samples (84369)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 2 - Aerobic Digestion (46396)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 2 - Air Drying (46396)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 2 - Anaerobic Digestion (46396)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 2 - Composting (46396)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 2 - Lime Treatment (46396)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 3 - Approved Equivalent Process	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- (b) Has amount of sludge generated changed significantly since the last inspection..... N
- (c) How much sludge storage is provided at the plant.....
- (d) Records kept in accordance with State and Federal law (5 years according to OAC 3745-40-06)..... Y
- (e) Any complaints received in last year regarding sludge..... Y
- (f) 5/8" screen at headworks for facilities that land apply sludge..... N
- (g) Are sludge application sites inspected to verify compliance with NPDES permit..... Y
- (h) Is a contractor used for sludge disposal..... Y
 If so, what is the name of the contractor.....

Comments/Status:

Comment (f)

There are fine screen units downstream of the influent bar rack and influent pump station.

Section I: Self-Monitoring Program

Flow Measurement:

- (a) Primary/Secondary flow measuring devices (e.g. weir with ultrasonic level sensor):
weir with ultrasonic level sensor
- (b) Flow meter calibrated annually Y
(Date of last calibration: March 2, 2011)
- (c) 24-hour recording instruments operated and maintained N/A
- (d) Flow measurement equipment adequate to handle full range of flows Y
- (e) All discharged flow is measured Y

Comments/Status:

Section I: Self-Monitoring Program (cont)

Sampling:

- (a) Sampling location(s) are as specified by permit Y
- (b) Parameters and sampling frequency agree with permit Y
- (c) Permittee uses required sampling method Y
(see GLC page)
- (d) Monitoring records (i.e., flow, pH, DO) maintained for a minimum of three years including all original strip chart recordings (i.e, continuous monitoring instrumentation, calibration and maintenance records) Y

Comments/Status:

Section I: Self-Monitoring Program (con't)

Laboratory:

General

- (a) Does the Quality Assurance Manual contain written Standard Operating Procedures (SOP's) for all analysis performed onsite..... Y
- (b) Do SOP's include the following if applicable..... Y
 - Title
 - Scope and Application
 - Summary
 - Sample Handling and Preservation
 - Interferences
 - Apparatus and Materials
 - Reagents
 - Procedure
 - Calculations
 - Quality Control
 - Maintenance
 - Corrective Action
 - Reference (Parent Method)

Note: Standard Methods 1020A establishes that "Quality assurance (QA) is the definitive program for laboratory operation that specifies the measure required to produce defensible data of known precision and accuracy. Standard operating procedures are to be used in the laboratory in sufficient detail that a competent analyst unfamiliar with the method can conduct a reliable review and/or obtain acceptable results." SOPs should be developed for each analytical procedure.

- (c) EPA approved analytical testing procedures used (40 CFR 136.3).. Y
- (d) If alternate analytical procedures are used, proper approval has been obtained..... N/A
- (e) Analyses being performed more frequently than required by permit. N
- (f) If (e) is yes, are results in permittee's self-monitoring report..... N/A
- (g) Satisfactory calibration and maintenance of instruments/equipment. Y
(see score from GLC page)
- (h) Commercial laboratory used..... Y
Parameters analyzed by commercial lab: Metals

Lab name: Belmonte Labs

Discharge Monitoring Report Quality Assurance (DMRQA)

- (a) Participation in latest USEPA quality assurance performance sampling..... Y
Date: July 2010
- (b) Were any parameters "Unsatisfactory"..... N
- (c) Reasons for "Unsatisfactory" parameters.....

Comments/Status:

Permit # : 1PK00008*KD
NPDES #: OH00493

Section J: Effluent/Receiving Water Observations

Outfall # 1PK00008001

Outfall Description: Final outfall to Nine Mile Creek (Ohio River Backwaters)

Receiving Stream: Nine Mile Creek (Ohio River Backwaters)

Comments/Status:

Section K: Multimedia Observations

- (a) Are there indications of sloppy housekeeping or poor maintenance in work and storage areas or laboratories..... N
- (b) Do you notice staining or discoloration of soils, pavement or floors.. N
- (c) Do you notice distressed (unhealthy, discolored, dead) vegetation.. N
- (d) Do you see unidentified dark smoke or dust clouds coming from sources other than smokestacks..... N
- (e) Do you notice any unusual odors or strong chemical smells..... N
- (f) Do you see any open or unmarked drums, unsecured liquids, or damaged containment facilities..... N

If any of the above are observed, ask the following questions:

- (1) What is the cause of the condition?
- (2) Is the observed condition or source a waste product?
- (3) Where is the suspected contaminant normally disposed?
- (4) Is this disposal permitted?
- (5) How long has the condition existed and when did it begin?

Comments/Status: