



Environmental
Protection Agency

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

Re: Williams County
Bryan WWTP
NPDES Permit

May 19, 2011

Mayor & Council
City of Bryan
103 North Beach Street
Bryan, Ohio 43506

Dear Mayor & Council:

On March 22, 2011, Mr. Jason Ko conducted a Compliance Sampling Inspection of your wastewater treatment plant. Mr. Ric Homier and Mr. Wes Wygant were present and provided information regarding the operation of the facility. This inspection was conducted as part of the facility's National Pollutant Discharge Elimination System (NPDES) permit No. 2PD00018 (OH0020532).

At the time of the inspection, all major treatment components were in service. The final discharge from the treatment plant was visually clear. We collected the effluent sample (Outfall 002) on March 21 to March 22 to determine the quality of the discharge. The March sampling event indicated the final effluent was not acutely toxic and the conventional pollutants were within the limits. Please refer to the enclosed Bioassay Report Number 11-4034-NW for more detailed analytical information.

Your current NPDES permit will expire on July 31, 2013. Please note that this NPDES permit (Part I, Item C) requires the City to comply with four (4) implementation schedules with specific milestones as follows:

- (1) Municipal Construction Schedule – eliminating raw sewage overflows at the holding ponds by August 2013;
- (2) Municipal Compliance Schedule – installed permanent warning signs at the two holding pond sanitary sewer overflows;
- (3) Capacity, Management, Operation & Maintenance Programs – submitted on October 7, 2010;
- (4) Municipal Pretreatment Schedule – submitted technical justification of local industrial user limits to Ohio EPA, Central Office Pretreatment Unit by February 2009.

Mayor & Council
May 19, 2011
Page Two

The City completed Items 2, 3 and 4 of the Compliance Schedule. Also, progress continues on the Pollutant Minimization Program (PMP) for Mercury and General Mercury Variance (see Part II, Items CC & DD of the NPDES permit). The Control Strategy report, PMP and Pretreatment annual reports must be submitted to our Division of Surface Water, Pretreatment Unit, in Columbus.

Our review of your Discharge Monitoring Reports (10/1/2009 to 3/31/2011) indicated a few effluent violations. Please refer to the enclosed violation table. We also conducted a cursory review of your drying oven in the in-house laboratory and the General Lab Criteria form is enclosed.

The results of U.S. EPA DMR-QA Study #30 indicated that all test parameters were rated acceptable except for suspended solids. We encourage your continued participation in the QA Program to assure the accuracy and reliability of your monthly monitoring data. Our completed inspection report is enclosed with this letter. If you have any questions, please call Mr. Jason Ko of our office at 419-373-3021.

Yours truly,



Elizabeth A. Wick, P.E.
Water Quality Engineer/Unit Supervisor
Division of Surface Water

JSK/cs

pc: Ric Homier, Bryan WWTP
DSW-NWDO-File

NPDES COMPLIANCE INSPECTION REPORT

Section A: National Data System Coding

Permit #	NPDES	Yr/Mo/Day	Inspection Type	Inspector	FacType
2PD00018	OH0020532	2011/03/22	<u>S</u>	<u>S</u>	P

Section B: Facility Data

Name and Location of Facility Inspected City of Bryan WWTP 1521 Evansport Road Bryan, OH 43506	Entry Time	Permit Effective Date
	10:00 A.M.	8/1/2008
	Exit Time	Permit Expiration Date
	12:30 P.M.	7/31/2013

Name(s) and Title(s) of On-Site Representative(s)	Phone Number(s)
Mr. Ric Homier, Superintendent	(419) 636- 8741
Mr. Wes Wygant, Asst. Superintendent	(419) 636-8741

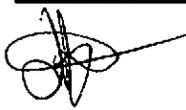
Name, Address and Title of Responsible Official	Phone Number
Mayor and Council City of Bryan 103 North Beech Street Bryan, OH 43506	(419) 636-4232

Section C: Areas Evaluated During Inspection (S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

<u>S</u> Permit	<u>S</u> Flow Measurement	<u>N</u> Pretreatment
<u>S</u> Records/Reports	<u>S</u> Laboratory	<u>S</u> Compliance Schedules
<u>S</u> Operations & Maintenance	<u>S</u> Effluents	<u>S</u> Self-Monitoring Program
<u>S</u> Facility Site Review	<u>S</u> Sludge Storage/Disposal	<u>N</u> Other

Section D: Summary of Findings/Comments (Attach additional sheets if necessary)

- * This Compliance Sampling Inspection was conducted on 3/22/2011; effluent samples were collected on 3/21 to 3/22/2011
- * The March 2011 sampling results indicated that the final effluent was not acutely toxic and conventional pollutants were within limits (see enclosed Bioassay Report Number 11- 4034 -NW)
- *Plant effluent directly from the WWTP (Outfall 002) was discharging to Pigeon Run
- * The Schedule of Compliance in the NPDES permit contained 4 items with specific time frames:
 - 1)Municipal Construction Schedule –eliminate raw sewage overflows at the holding ponds by 8/2013
 - 2)Municipal Compliance Schedule – installed permanent warning signs at sanitary overflows
 - 3)Capacity, Management, Operation & Maintenance Program (CMOM) –submitted on 10/ 7/2010
 - 4)Municipal Pretreatment Schedule - evaluated the local industrial user limitations by 2/2009
- * Review of your Discharge Monitoring Reports (10/1/2009 to 3/31/2011) indicated a few effluent violations

 Jason Ko Name(s) and Signature(s) of Inspector(s)	5/17/11 Date	Ohio EPA, Northwest District Office
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 Elizabeth A. Wick, P.E. Name and Signature of Reviewer	5/17/11 Date	Ohio EPA, Northwest District Office
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Sections E thru K: Complete on all inspections as appropriate. N/A - Not Applicable N/E - Not Evaluated

Section E: Permit Verification

	Yes	No	N/A	N/E
INSPECTION OBSERVATIONS VERIFY THE PERMIT				
(a) CORRECT NAME AND MAILING ADDRESS OF PERMITTEE	<u>X</u>	___	___	
(b) CORRECT NAME AND LOCATION OF RECEIVING WATERS	<u>X</u>	___	___	
(c) PRODUCT(S) AND PRODUCTION RATES CONFORM WITH PERMIT APPLICATION (INDUSTRIES)	___	___	<u>X</u>	
(d) FLOWS AND LOADINGS CONFORM WITH NPDES PERMIT PERMIT APPLICATION/BRIEFING MEMO	<u>X</u>	___	___	
(e) TREAT PROCESSES ARE AS DESCRIBED IN PERMIT APPLICATION/BRIEFING MEMO	<u>X</u>	___	___	
(f) NEW TREATMENT PROCESS(ES) ADDED SINCE LAST INSPECTION	___	<u>X</u>	___	
(g) NOTIFICATION GIVEN TO STATE OF NEW, DIFFERENT OR INCREASED DISCHARGES	___	___	<u>X</u>	
(h) ALL DISCHARGES ARE PERMITTED	<u>X</u>	___	___	
(i) NUMBER AND LOCATION OF DISCHARGE POINTS ARE AS DESCRIBED IN PERMIT	<u>X</u>	___	___	

COMMENTS/STATUS:

Section F: Compliance Schedules/Violations

	Yes	No	N/A	N/E
(a) ANY SIGNIFICANT VIOLATIONS SINCE THE LAST INSPECTION	___	<u>X</u>	___	
(b) PERMITTEE IS TAKING ACTIONS TO RESOLVE VIOLATIONS	___	___	<u>X</u>	
(c) PERMITTEE HAS COMPLIANCE SCHEDULE	<u>X</u>	___	___	
(d) COMPLIANCE SCHEDULE CONTAINED IN <u>NPDES - Part I.C</u>	___	___	___	
(e) PERMITTEE IS MEETING COMPLIANCE SCHEDULE	<u>X</u>	___	___	

COMMENTS/STATUS:

(d) The Schedule of Compliance in the NPDES permit contained 4 items with specific time frames

- 1)Municipal Construction Schedule –eliminate raw sewage overflows at the holding ponds by 8/2013
- 2)Municipal Compliance Schedule – installed permanent warning signs at sanitary overflows
- 3)Capacity, Management, Operation & Maintenance Program (CMOM) – submitted on by10/2010
- 4) Municipal Pretreatment Schedule - evaluated the local industrial user limitations by 2/2009

(e) City completed Items 2, 3 & 4 of the Compliance Schedule

Section G: Operation and Maintenance

TREATMENT WORKS:

	Yes	No	N/A	N/E
TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED				
(a) STANDBY POWER AVAILABLE GENERATOR <u>X</u> DUAL FEED <u> </u>	<u>X</u>	<u> </u>	<u> </u>	
(b) ADEQUATE ALARM SYSTEM AVAILABLE FOR POWER OR EQUIPMENT FAILURES	<u>X</u>	<u> </u>	<u> </u>	
(c) ALL TREATMENT UNITS IN SERVICE OTHER THAN BACKUP UNITS	<u>X</u>	<u> </u>	<u> </u>	
(d) SUFFICIENT OPERATING STAFF PROVIDED # SHIFTS <u>2</u> DAYS/WEEK <u>5</u>	<u>X</u>	<u> </u>	<u> </u>	
(e) OPERATOR HOLDS UNEXPIRED LICENSE OF CLASS REQUIRED BY PERMIT CLASS: <u>III</u>	<u>X</u>	<u> </u>	<u> </u>	
(f) ROUTINE AND PREVENTIVE MAINTENANCE SCHEDULED/PERFORMED ON TIME	<u>X</u>	<u> </u>	<u> </u>	
(g) ANY MAJOR EQUIPMENT BREAKDOWN SINCE LAST INSPECTION	<u> </u>	<u>X</u>	<u> </u>	
(h) OPERATION AND MAINTENANCE MANUAL PROVIDED AND MAINTAINED	<u>X</u>	<u> </u>	<u> </u>	
(i) ANY PLANT BYPASSES SINCE LAST INSPECTION	<u>X</u>	<u> </u>	<u> </u>	
(j) REGULATORY AGENCY NOTIFIED OF BYPASSES <u> </u> ON MORS <u> </u> 800 NO.	<u>X</u>	<u> </u>	<u> </u>	
(k) ANY HYDRAULIC AND/OR ORGANIC OVERLOADS EXPERIENCED SINCE LAST INSPECTION	<u> </u>	<u>X</u>	<u> </u>	

COLLECTION SYSTEM:

	Yes	No	N/A	N/E
(a) PERCENT COMBINED SYSTEM <u>0%</u>				
(b) ANY COLLECTION SYSTEM OVERFLOWS SINCE LAST INSPECTION (CSO <u> </u> SSO <u> </u>)	<u>X</u>	<u> </u>	<u> </u>	
(c) REGULATORY AGENCY NOTIFIED OF OVERFLOWS (SSOs)	<u> </u>	<u> </u>	<u>X</u>	
(d) CSO O AND M PLAN PROVIDED AND IMPLEMENTED	<u>X</u>	<u> </u>	<u> </u>	
(e) CSOs MONITORED AND REPORTED IN ACCORDANCE WITH PERMIT	<u>X</u>	<u> </u>	<u> </u>	
(f) PORTABLE PUMPS USED TO RELIEVE SYSTEM	<u>X</u>	<u> </u>	<u> </u>	
(g) LIFT STATION ALARM SYSTEMS PROVIDED AND MAINTAINED	<u>X</u>	<u> </u>	<u> </u>	
(h) ARE LIFT STATIONS EQUIPPED WITH PERMANENT STANDBY POWER OR EQUIVALENT	<u>X</u>	<u> </u>	<u> </u>	
(i) IS THERE AN INFLOW INFILTRATION PROBLEM (SEPARATE SEWER SYSTEM) OR WERE THERE ANY MAJOR REPAIRS TO COLLECTION SYSTEM SINCE LAST INSPECTION	<u>X</u>	<u> </u>	<u> </u>	
(j) ANY COMPLAINTS RECEIVED SINCE LAST INSPECTION OF BASEMENT FLOODING	<u>X</u>	<u> </u>	<u> </u>	
(k) ARE ANY PORTIONS OF THE SEWER SYSTEM AT OR NEAR CAPACITY	<u> </u>	<u>X</u>	<u> </u>	

COMMENTS/STATUS:

Treatment Works:

- (a) Test run weekly
- (d) 2 hour on weekends

Collection System:

- (j) City Engineering Dept. is investigating sewer system

Section H: Sludge Management

(a) SLUDGE MANAGEMENT PLAN (SMP)
SUBMITTED DATE _____ APPROVAL # _____ NOT SUBMITTED _____ N/A

	Yes	No	N/A	N/E
(b) SLUDGE MANAGEMENT PLAN CURRENT	_____	_____	_____	_____
(c) SLUDGE ADEQUATELY DISPOSED (METHOD: _____)	_____	_____	_____	_____
(d) IF SLUDGE IS INCINERATED, WHERE IS ASH DISPOSED OF _____	_____	_____	_____	_____
(e) IS SLUDGE DISPOSAL CONTRACTED (NAME: _____)	_____	_____	_____	_____
(f) HAS AMOUNT OF SLUDGE GENERATED CHANGED SIGNIFICANTLY SINCE LAST INSPECTION	_____	_____	_____	_____
(g) ADEQUATE SLUDGE STORAGE PROVIDED AT PLANT	_____	_____	_____	_____
(h) LAND APPLICATION SITES MONITORED AND INSPECTED PER SMP	_____	_____	_____	_____
(i) RECORDS KEPT IN ACCORDANCE WITH STATE AND FEDERAL LAW	_____	_____	_____	_____
(j) ANY COMPLAINTS RECEIVED IN LAST YEAR REGARDING SLUDGE	_____	_____	_____	_____
(k) IS SLUDGE ADEQUATELY PROCESSED (DIGESTION, DEWATERING, PATHOGEN CONTROL)	_____	_____	_____	_____

COMMENTS/STATUS:

Section I: Self-Monitoring Program

Part 1. Flow measurement

	Yes	No	N/A	N/E
(a) PRIMARY FLOW MEASURING DEVICE PROPERLY OPERATED & MAINTAINED	<u>X</u>	_____	_____	_____
TYPE OF DEVICE: _____ PARSHALL FLUME _____ ULTRASONIC & WEIR _____ WEIR _____ CALCULATED FROM INFLUENT <u>X</u> OTHER (Specify <u>magnate- effluent</u>)				
(b) CALIBRATION FREQUENCY ADEQUATE (Date of last calibration <u>1/11</u>)	<u>X</u>	_____	_____	_____
(c) SECONDARY INSTRUMENTS (totalizers, recorders, etc.) PROPERLY OPERATED AND MAINTAINED	<u>X</u>	_____	_____	_____
(d) FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGES OF FLOWS	<u>X</u>	_____	_____	_____
(e) ACTUAL FLOW DISCHARGED IS MEASURED	<u>X</u>	_____	_____	_____
(f) FLOW MEASURING EQUIPMENT INSPECTION FREQUENCY: <u>X</u> DAILY _____ WEEKLY _____ MONTHLY _____ OTHER				

COMMENTS/STATUS:

(b) Recommend that flow meter be calibrated annually

Part 2. Sampling

	Yes	No	N/A	N/E
(a) SAMPLING LOCATION(S) ARE AS SPECIFIED BY PERMIT	<u>X</u>	___	___	___
(b) PARAMETERS AND SAMPLING FREQUENCY AGREE WITH PERMIT	<u>X</u>	___	___	___
(c) PERMITTEE USES REQUIRED SAMPLING METHOD	<u>X</u>	___	___	___
(d) SAMPLE COLLECTION PROCEDURES ARE ADEQUATE	<u>X</u>	___	___	___
(i) SAMPLES REFRIGERATED DURING COMPOSITING	<u>X</u>	___	___	___
(ii) PROPER PRESERVATION TECHNIQUES USED	<u>X</u>	___	___	___
(iii) CONTAINERS AND SAMPLE HOLDING TIMES PRIOR TO ANALYSES CONFORM WITH 40 CFR 136.3	<u>X</u>	___	___	___
(e) MONITORING RECORDS (e.g., flow, pH, D.O., etc.) MAINTAINED FOR A MINIMUM OF THREE YEARS INCLUDING ALL ORIGINAL STRIP CHART RECORDINGS (e.g., continuous monitoring instrumentation, calibration and maintenance records)	<u>X</u>	___	___	___
(f) ADEQUATE RECORDS MAINTAINED OF SAMPLING DATE, TIME, EXACT LOCATION, ETC.	<u>X</u>	___	___	___

COMMENTS/STATUS:

Part 3. Laboratory

	Yes	No	N/A	N/E
GENERAL				
(a) EPA APPROVED ANALYTICAL TESTING PROCEDURES USED (40 CFR 136.3)	<u>X</u>	___	___	___
(b) IF ALTERNATE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED	___	___	<u>X</u>	___
(c) ANALYSES BEING PERFORMED MORE FREQUENTLY THAN REQUIRED BY PERMIT	___	<u>X</u>	___	___
(d) IF (c) IS YES, ARE RESULTS REPORTED IN PERMITTEE'S SELF-MONITORING REPORT	___	___	<u>X</u>	___
(e) COMMERCIAL LABORATORY USED	<u>X</u>	___	___	___
(1) PARAMETERS ANALYZED BY COMMERCIAL LAB				

Jones & Henry - Metals, TKN, O&G & Sludge
A&L Labs - Sludge fecal & Soils
DAT Labs- PCBs & Dioxins
Enviro Science- Bioassay

QUALITY CONTROL/QUALITY ASSURANCE

(f) QUALITY ASSURANCE MANUAL PROVIDED AND MAINTAINED	<u>X</u>	___	___	___
(g) SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT	<u>X</u>	___	___	___
(h) ADEQUATE RECORDS MAINTAINED	<u>X</u>	___	___	___
(i) RESULTS OF LATEST USEPA QUALITY ASSURANCE PERFORMANCE SAMPLING PROGRAM DATE : <u>2010</u> <u>X</u> SATISFACTORY <u>___</u> MARGINAL <u>___</u> UNSATISFACTORY				

COMMENTS/STATUS:

Section J: Effluent/Receiving Water Observations

OUTFALL NO.	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	VISIBLE FLOAT SOLIDS	COLOR	OTHER
002	--	--	--	--	--	Clear	--

COMMENTS/STATUS:

Outfall 001 did not discharge

Section K: Multimedia Observations

	Yes	No	N/A	N/E
(a) ARE THERE INDICATIONS OF SLOPPY HOUSEKEEPING OR POOR MAINTENANCE IN WORK AND STORAGE AREAS OR LABORATORIES	___	<u>X</u>	___	___
(b) DO YOU NOTICE STAINING OR DISCOLORATION OF SOILS, PAVEMENT, OR FLOORS	___	<u>X</u>	___	___
(c) DO YOU NOTICE DISTRESSED (UNHEALTHY, DISCOLORED, DEAD) VEGETATION	___	<u>X</u>	___	___
(d) DO YOU SEE UNIDENTIFIED DARK SMOKE OR DUSTCLOUDS COMING FROM SOURCES OTHER THAN SMOKESTACKS	___	<u>X</u>	___	___
(e) DO YOU NOTICE ANY UNUSUAL ODORS OR STRONG CHEMICAL SMELLS	___	<u>X</u>	___	___
(f) DO YOU SEE ANY OPEN OR UNMARKED DRUMS, UNSECURED LIQUIDS, OR DAMAGED CONTAINMENT FACILITIES?	___	<u>X</u>	___	___

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:

Section L: Sampling Procedures (for CSIs)

- GRAB SAMPLES OBTAINED
- COMPOSITE SAMPLE OBTAINED
- COMPOSITE FREQUENCY _____ PRESERVATION _____
- FLOW PROPORTIONED SAMPLE OBTAINED
- AUTOMATIC SAMPLER USED
- SAMPLE SPLIT WITH PERMITTEE
- CHAIN OF CUSTODY EMPLOYED
- SAMPLE OBTAINED FROM THE FACILITY SAMPLING DEVICE

SAMPLE REFRIGERATED DURING COMPOSITING : YES NO
SAMPLE REPRESENTATIVE OF VOLUME AND NATURE OF DISCHARGE _____

COMMENTS/STATUS:

See Bioassay Report Number 11- 4034-NW (enclosed)

F. GUIDE - VISUAL OBSERVATION - UNIT PROCESS

158-R0035

RATING CODES: S = Satisfactory; U = Unsatisfactory; M = Marginal; IN = In Operation; OUT = Out of Operation

CONDITION OR APPEARANCE		RATING	COMMENTS
General	Grounds	S	
	Buildings	S	
	Potable Water Supply Protection	S	
	Safety Features	S	
	Bypasses	OUT	
	Stormwater Overflows	OUT	2 holding ponds
	Alternate Power Source	S	A standby generator tested weekly
Preliminary	Maintenance of Collection Systems	S	
	Pump Station	IN	3 screw pumps and 1 running
	Ventilation	-	
	Bar Screen	IN	Flow sensor used for autostart
	Disposal of Screenings	S	Landfill
	Comminutor	Out	Standby
	Grit Chamber	OUT	
	Disposal of Grit	OUT	
Primary	Settling Tanks	IN	2 tanks, both in use
	Scum Removal	IN	
	Sludge Removal	IN	
	Effluent	S	
Sludge Disposal	Digesters - Anaerobic	IN	2 primary @ 95 °F & 1 secondary
	Temperature and pH	S	
	Gas Production	S	
	Heating Equipment	IN	2 heat exchangers
	Sludge Pumps	IN	3 RAS, 1 WAS & 2 Raw
	Sludge holding Tank	OUT	2 tanks prior to the press in use 2/week
	Sludge Thickener	IN	1 units
	Disposal of Sludge	S	Land application - Class A
	Centrifuge/Dryer	OUT	2 centrifuge units and 1 dryer in use 2/week
Other	Flow Meter and Recorder	IN	
	Records	S	
	Lab Controls	S	
	Chemical Treatment	IN	Alum added at the end of aeration tanks; polymer at the centrifuge
Secondary-Tertiary List items as required	Aeration	IN	All 4 in use; brown w/ good roll
	Secondary Settling	IN	All 2 in use
	Blower	IN	4 units; 2 running
	Polishing Ponds	Out	2 units discharge via Outfall 001
Disinfection	Effluent	S	Clear
	Disinfection System	IN	
	Effective Dosage	S	
	Contact Time	S	
	Contact Tank	IN	
	Dechlorination	IN	

General Lab Criteria

Criteria	Standard Methods Requirement	Acceptable?		Rating	
pH Meter					
<ul style="list-style-type: none"> • Calibration Frequency / Documentation 	<ul style="list-style-type: none"> • Calibration verification required for testing over long period of time (e.g. 12 hrs.), or after a large number of samples (every 10 samples)³ 	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
	<ul style="list-style-type: none"> • Logbook maintained² 	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
<ul style="list-style-type: none"> • Minimum of 2 point calibration 	<ul style="list-style-type: none"> • Calibration per manufacturer specification and calibration buffers must bracket anticipated result⁷ 	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
<ul style="list-style-type: none"> • Slope Documentation / Acceptability 	<ul style="list-style-type: none"> • Slope acceptable range indicated on benchsheet² 	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
<ul style="list-style-type: none"> • Buffer Expiration Date 	<ul style="list-style-type: none"> • Buffers must not be expired 	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
<ul style="list-style-type: none"> • Other 	<ul style="list-style-type: none"> • Instrument manual available 	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
	<ul style="list-style-type: none"> • Teflon covered magnetic stirrer or equivalent for mixing⁸ 	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
Comments: :					
Criteria	Standard Methods Requirement	Acceptable?		Rating	
Dissolved Oxygen Meter					
<ul style="list-style-type: none"> • Calibration Method 	<ul style="list-style-type: none"> • Air or known DO calibration method¹⁰ 	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
	<ul style="list-style-type: none"> • Calibration per manufacturer specification¹⁰ 	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
<ul style="list-style-type: none"> • Calibration Frequency / Documentation 	<ul style="list-style-type: none"> • Logbook maintained² 	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
	<ul style="list-style-type: none"> • Calibration verification required at least once each day the meter is used.³ 	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
<ul style="list-style-type: none"> • Other 	<ul style="list-style-type: none"> • Small to no bubble present under membrane (must be smaller than the lead in number 2 pencil)¹¹ 	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
	<ul style="list-style-type: none"> • Instrument manual available 	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
Comments:					

General Lab Criteria

Criteria	Standard Methods Requirement		Rating
Incubator (CBOD/ E-Coli)			Acceptable?
• Temperature Recordkeeping	• Temperature checked / recorded twice daily for each shelf in use ¹ (E-Coli)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	• Temperature checked / recorded daily ² (CBOD)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	• Acceptable temperature range (CBOD) is 20° C ±1.0 ^{o12}	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	• Acceptable temperature range (E-Coli) is 35° C ±0.5 ^{o22}	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	• Logbook maintained ²	<input type="checkbox"/> Yes <input type="checkbox"/> No	
• Temperature Calibration / Documentation	• Thermometer calibrated annually with NIST traceable thermometer ^{1,2}	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	• Temperature correction information posted on incubator ¹	<input type="checkbox"/> Yes <input type="checkbox"/> No	
• E-Coli can use multiple tubes (five 20 ml or ten 10 ml), or mfg's multi-well tray	• E-coli Ultraviolet lamp (365 nm wave length, 6 W bulb) ²³	<input type="checkbox"/> Yes <input type="checkbox"/> No	
• Other	• Instrument manual available	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	• Temperature Log (thermometer reads to 0.5 Celsius). ¹	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Comments: :			
Criteria	Standard Methods Requirement		Rating
Refrigerator			Acceptable?
• Temperature Recordkeeping	• Temperature Log (thermometer reads to 0.5 Celsius). ⁵	<input type="checkbox"/> Yes <input type="checkbox"/> No	
• Temperature Calibration / Documentation	• Thermometer calibrated annually with NIST traceable thermometer ^{1,2}	<input type="checkbox"/> Yes <input type="checkbox"/> No	
• Other	• Thermometer held in water bath. ¹	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	• Refrigerator temperature ≤6° Celsius. ¹³	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	• Do not store volatile solvents, food, or beverages. ¹⁴	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Comments:			

● General Lab Criteria ●

Criteria	Standard Methods Requirement	Acceptable?		Rating
Chlorine Meter				
• Calibration Frequency / Documentation	• pH / millivolt meter read to 0.1 mV ¹⁵	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	• Calibration verification required for testing over long period of time (e.g. 12 hrs.), or after a large number of samples (every 10 samples) ³	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
• Calibration Method	• Calibration using three iodate solutions 0.2, 1.0, 5.0 milliliters or calibration per manufacturer specification ¹⁶	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	• Standards used for calibration not expired	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
• Slope Documentation / Acceptability	• Calibration curve (acceptable slope)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
• Other	• Electrode free of deposits and foreign material	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	• Log book being maintained. ²	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	• Instrument manual available	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Comments: :				

Criteria	Standard Methods Requirement	Acceptable?		Rating
Ammonia Meter				
• Calibration Frequency / Documentation	• Calibration verification required for testing over long period of time (e.g. 12 hrs.), or after a large number of samples (every 10 samples) ³	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	• Log book being maintained ²	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
• Slope acceptability	• Verify calibration slope is acceptable (per mfg. spec.).	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
• Calibration Method	• Standards used for calibration (3 ammonia solutions of 10 mg/l, 1 mg/l, and 0.1 mg/l) or per mfg. spec. ¹⁷	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	• Standards used for calibration not expired	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
• Other	• Electrode free of deposits and foreign material	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	• Teflon covered magnetic stirrer or equivalent for mixing ¹⁸	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
	• Instrument manual available	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Comments: :				

● General Lab Criteria ●

Criteria	Standard Methods Requirement		Rating
Sample Collection/Handling	Acceptable?		
• Sample Labeling	• Samples container labeled (description, date, time, preservative added, initialed). ¹⁹	<input type="checkbox"/> Yes <input type="checkbox"/> No	
• Chain of Custody	• Chain of custody (description, date, time, signature). ¹⁹	<input type="checkbox"/> Yes <input type="checkbox"/> No	
• Other	• Composite samples refrigerated during sample collection ¹⁴	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	• Equipment blanks utilized ¹⁴	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	• SOP for cleaning of sampling equipment	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	• Logbook being maintained ²	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Comments:

Criteria	Standard Methods Requirement		Rating
Desiccator	Acceptable?		
• General criteria	• Properly working seals.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	• Desiccant fresh (blue color)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
• Documentation	• Log book being maintained ²	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Comments:

Criteria	Standard Methods Requirement		Rating
Bench sheets	Acceptable?		
• General criteria	• Date(s) ²	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	• Analyst initials ²	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	• Blue or black ink pen ²	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	• Calibration information ²	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	• Equations, calculations, units for all measurements, notations, and results present ²	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	• Corrections, single line through, initialed and dated ²	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Comments:

General Lab Criteria

Criteria	Standard Methods Requirement		Rating
Hot Water Bath (Fecal Coliform/E. Coli)			Acceptable?
• Temperature Recordkeeping	• Temperature Log (thermometer reads 0.2° C) ²¹	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	• Incubator temperature 44.5° C ± 0.2° ^{21/24}		
• Temperature Calibration / Documentation	• Thermometer calibrated annually with NIST traceable thermometer ^{1,2}	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	• Log book being maintained ²	<input type="checkbox"/> Yes <input type="checkbox"/> No	
• Water Level	• Thermometer total immersion or partial (line on thermometer to ID immersion depth) ^{1,5}	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Comments:			
Criteria	Standard Methods Requirement		Rating
Autoclaves/Steam Sterilizers			Acceptable?
• All apparatus utilized is adequately sterilized before use	• Sterilizing temperature 121° C ²⁵	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	• 10 to 30 minutes time based on material being sterilized ²⁶	<input type="checkbox"/> Yes <input type="checkbox"/> No	
• Documentation	• Verify the autoclave temperature weekly by using a maximum registering thermometer (MRT) to confirm that 121°C has been reached as measured in the exhaust. ¹	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	• Date, contents, sterilization time and temperature, total time in autoclave, and analyst's initials should be recorded each time the autoclave is used ¹	<input type="checkbox"/> Yes <input type="checkbox"/> No	
• Temperature Calibration / Documentation	• Thermometer calibrated annually with NIST traceable thermometer ^{1,2}	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	• Log book being maintained ²	<input type="checkbox"/> Yes <input type="checkbox"/> No	
• Performance Checks	• Test monthly for efficacy using a biological such as commercially available <i>Geobacillus stearothermophilus</i> in spore strips, suspensions, or capsules ¹	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Comments:			

General Lab Criteria

Criteria	Standard Methods Requirement		Rating
Final Effluent Temperature Monitoring	Acceptable?		
• General Criteria	• Thermometer calibrated annually with NIST traceable thermometer ^{1,2}	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	• Thermometer reads in increments of at least 0.1° C ⁵	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	• Log book being maintained ²	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Comments:			
Number of Criteria Rated:			Acceptable
			Marginal
			*Unacceptable
			Total Number of Areas Rated
<p>Acceptable Ratings – No action required (recommend SOP's written or updated, perform DMRQA's for all onsite analysis, recommend voluntary lab analyst certification, written response not required).</p>			
<p>Marginal Ratings – Improvements required, written response required (recommend SOP's be written or updated, recommend they perform DMRQA's for all onsite analysis, recommend voluntary lab analyst certification, require deficiencies to be addressed in written response).</p>			
<p>Unsatisfactory Rating - Improvements required, written response required, NOV issued (recommend SOP's be written or updated, recommend they perform DMRQA's for all onsite analysis, recommend voluntary lab analyst certification, require deficiencies to be addressed in written response to NOV).</p>			
Consider recommending PAI Audit from DES when:	>60% of ratings are Marginal >45% of ratings are a combination of Marginal or Unacceptable >30% of ratings are Unacceptable		

Notation of Referenced Method

- | | |
|----------------------------|------------------------------|
| 1 Method 9020-B, Item 3 | 14 Method 1060A, Item 1 |
| 2 Method 1020-A, Item 1 | 15 Method 4500-CI I, Item 2 |
| 3 Method 1020-B, Item 10 | 16 Method 4500-CI I, Item 4 |
| 4 Method 2540-B, Item 2 | 17 Method 4500-NH3 D, Item 4 |
| 5 Method 2550-B, Item 1 | 18 Method 4500-NH3 D, Item 2 |
| 6 Method 1020-A, Item 1 | 19 Method 1060-B, Item 2 |
| 7 Method 4500-H B, Item 4 | 20 Method 1060-B, Item 1 |
| 8 Method 4500-H B, Item 2 | 21 Method 9222D, Item 1 |
| 9 Method 1020-B, Item 2 | 22 Method 9223 B, Item 2 |
| 10 Method 4500-O B, Item 3 | 23 Method 9223 B, Item 3 |
| 11 Method 4500-O G, Item 3 | 24 Method 1603, Item 2 |
| 12 Method 5210-B, Item 5 | 25 Method 9030-B, Item 3 |
| 13 CFR 136.3, Table II | 26 Method 9020 B, Table IV |

General Lab Criteria

Equipment Logbook Content - all maintenance performed on a piece of equipment should be documented in the logbook. This should include parts replacement and routine maintenance activities. Entries should include date, maintenance performed and initials of person making entry.

Preservation and Holding Times						
Parameter	Container	Min. Sample Size (mL)	Sample Type	Preservation	Maximum Storage Time	
					Recommended	Regulatory
BOD / CBOD	P, G	1000	G, C	Refrigerate $\leq 6^{\circ}\text{C}$	6h	48h
TSS	P, G	200	G, C	Refrigerate $\leq 6^{\circ}\text{C}$	7 d	7 d
pH	P, G	50	G	Analyze immediately	0.25h	0.25 h
NH ₃ -N	P, G	500	G, C	Analyze as soon as possible or add H ₂ SO ₄ to pH <2, Refrigerate $\leq 6^{\circ}\text{C}$	7 d	28 d
TRC	P, G	500	G	Analyze immediately	0.25h	0.25 h
DO (electrode)	G, BOD Bottle	300	G	Analyze immediately	0.25h	0.25 h
Temperature	P, G	-	G	Analyze immediately	0.25h	0.25 h
Metals, general	P, G	1000	G, C	For dissolved filter immediately and add HNO ₃ to pH <2	6 months	6 months
Purgeables by purge and trap	G (PTFE lined lid)	40 (X2)	G	HCl to pH <2, Refrigerate $\leq 6^{\circ}\text{C}$	7 d	14 d
Base/Neutrals and acids	G (solvent rinsed or baked)	1000	C, G	Refrigerate $\leq 6^{\circ}\text{C}$	7 d	7 days until extraction 40 days after extraction
Pesticides	G (PTFE lined lid)	1000	C	Refrigerate $\leq 6^{\circ}\text{C}$	7 d	7 days until extraction 40 days after extraction
Fecal Coliform / E-Coli	G, P (Sterilized)	100	G	Refrigerate $\leq 10^{\circ}\text{C}$ If chlorine present, add sodium thiosulfate tablet	6 hrs transport Start analysis within 2 hrs of receipt in lab.	
Oil and Grease	G	1000	G	HCl or H ₂ SO ₄ to pH <2, Refrigerate $\leq 6^{\circ}\text{C}$	28 d	28 d

Approved Standard Methods	
CBOD / BOD 5 Day	Std Methods 5210-B
Ammonia, Selective Electrode Method	Std Methods 4500-NH ₃ D
Total Residual Chlorine, DPD Colorimetric Method	Std Methods 4500-Cl G
Total Suspended Solids, Dried at 103-105 °C	Std Methods 2540-D
Dissolved Oxygen, Membrane Electrode Method	Std Method 4500-O G
pH, Electrometric Method	Std Methods 4500-H+ B
Fecal Coliform, Membrane Filter Procedure	Std Methods 9222D
Escherichia Coli, Enzyme Substrate Test	Std Method 9223B
Escherichia Coli Membrane Filtration Procedure	EPA Method 1603
Oil and Grease	USEPA 1664A or Std Methods 5520B
Metals, general	USEPA 200, Std Methods 3111B or C, or 3120B
Volatiles (Purgeables by purge and trap)	USEPA 6210, Std Methods 624
Semi-Volatiles (Base/Neutrals and acids)	USEPA 6410, Std Methods 625
Pesticides	USEPA 6410 and 6630, Std Methods 608

Set New Dat.

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PD00018*MD	August 2010	002	00300	Dissolved Oxygen	1D Conc	7.0	6.85	8/11/2010
2PD00018*MD	June 2010	002	50092	Mercury, Total (Low Le	30D Conc	7.4033	16.	6/1/2010
2PD00018*MD	June 2010	002	50092	Mercury, Total (Low Le	30D Qty	0.0000	.00014	6/1/2010

A Report on the Acute Toxicity of Bryan WWTP
Outfall 002 Effluents to *Pimephales promelas* and *Ceriodaphnia dubia*

Bioassay Report Number:
11-4034-NW

Sample Number:
129951

Reviewed By
Ohio EPA - DES
QA Staff

MAR 29 2011

Reviewer VP

Jonathan C. McLaughlin

Bioassay Section
Division of Environmental Services
Ohio Environmental Protection Agency

INTRODUCTION

Two grab samples and a composite sample of Bryan WWTP outfall 002 effluents were collected by Kathryn McKibben and Brent A. Kuenzli, DSW, NWDO, Ohio EPA for use in screening bioassays as part of a toxics evaluation in conjunction with permit reissuance. Grab samples were also collected from the receiving stream, Pigeon Run, upstream from the discharge and in the acute mixing zone. The effluent grab samples were collected on 21 March 2011 at 0932 hours and on 22 March 2011 at 0956 hours. The composite sample was collected on 21-22 March 2011 between 0945-0930 hours. The Pigeon Run water was collected on 21 March 2011: upstream at 1005 hours and from the acute mixing zone at 1001 hours. The fathead minnow, *Pimephales promelas*, and *Ceriodaphnia dubia* were used as test organisms in these 48-hour screening bioassays. A map of the area and plant overview are attached.

PREVIOUS RESULTS

Bioassays of Bryan WWTP outfall 002 effluents were previously conducted by the Ohio EPA within the last ten years in February and March 2002, and April and June 2006 (Bioassay Numbers: 02-2594-NW, 02-2602-NW, 06-3395-NW, and 06-3432-NW, respectively). The previously tested effluents were not acutely toxic to either *P. promelas* or *C. dubia* (Appendix 1).

RESULTS AND CONCLUSIONS

Details of the tests may be found on the attached bioassay report forms. The effluents were not acutely toxic. Five percent daphnia mortality was observed in the 22 March effluent grab and composite effluent. No other mortality or other adverse effects were observed in the ambient waters and remaining effluents for either *P. promelas* or *C. dubia*. Survival in the laboratory controls was 95 percent or greater for both species. Conductivity comparisons of the Pigeon Run upstream water, acute mixing zone, and 21 March 2011 effluent grab indicate the acute mixing zone sample contained approximately 56 percent by volume effluent.

Screening bioassays are utilized to determine if an effluent is acutely toxic to the test organisms and to indicate if more extensive bioassays should be conducted to estimate median lethal concentrations or persistence of toxicity. The results of these and previous bioassays indicate that Bryan WWTP outfall 002 effluents were not acutely toxic to either *P. promelas* or *C. dubia*. Additional bioassays should be conducted to further demonstrate the absence of unacceptably toxic conditions associated with this discharge.

These tests did not address the possibility of chronic toxicity. Discharge data for Bryan WWTP outfall 002 and the Pigeon Run should be evaluated to determine if chronic toxicity is of concern. Chronic tests may be required to adequately evaluate the possibility of toxicity in this discharge.

OHIO ENVIRONMENTAL PROTECTION AGENCY
Screening Bioassay Report Form

Report Date: 25 March 2011

Bioassay Report Number: 11-4034-NW

Investigators: Jonathan C. McLaughlin

Effluent tested and source: Bryan WWTP, 1521 Evansport Rd., Bryan, Williams County, Ohio, outfall 002

NPDES Number: OH0020532

Ohio EPA Permit Number: 2PD00018

Business/Process: Wastewater treatment facility

Collector(s): Kathryn McKibben and Brent A. Kuenzli, DSW, NWDO, Ohio EPA

Test Organisms: Fathead minnow (*Pimephales promelas*) and *Ceriodaphnia dubia* from Ohio EPA Bioassay Section rearing units

Fathead Minnow Data: n = 20. Number of fish used in estimating mean standard length and mean weight

	Mean	Standard Deviation	Range
Standard Length (millimeters):	6.2	0.57	5.0-7.0
Weight (milligrams):	0.9	0.34	0.3-1.5

Hatched: 13-14 March 2011; 8-9 days old at test initiation

Rearing unit water and reconstituted water were used in the controls for this static bioassay. Adverse effects measured in the test are death, immotility, and loss of equilibrium. Death is the cessation of all visible movement with no response to gentle prodding (fish) or to gentle test container agitation (*Ceriodaphnia*). An immotile organism is paralyzed or stunned with only occasional slight movements and cannot maintain its normal position in the water column. Loss of equilibrium is the organism's inability to maintain normal swimming posture in the water column and may be characterized by periods of quiescence followed by bursts of uncontrolled swimming. The effluent is considered to be acutely toxic if 20 percent, or more, of either species of test organism exhibits any combination of the adverse effects in the 100 percent effluent. Test results are invalid if more than ten percent of either species of test organism exhibits the adverse effects in the control.

Results of screening bioassays of Bryan WWTP outfall 002 effluent

Bioassay Number: 11-4034-NW

Sample	Time Collected Date: Time: (hours)	Test Start Date: Time: (hours)	Cumulative percent mortality (plus/or exhibiting other adverse effects)			
			<i>P. promelas</i> Time (hours)		<i>C. dubia</i> Time (hours)	
			24	48	24	48
Pigeon Run upstream	21 March 2011 1005	22 March 2011 0800	0	0	0	0
Acute mixing zone	21 March 2011 1001	22 March 2011 0800	0	0	0	0
Grab 002	21 March 2011 0932	22 March 2011 0800	0	0	0	0
Rearing unit water control		22 March 2011 0800	0	0	-	-
Reconstituted water control		22 March 2011 0800	-	-	0	0
Grab 002	22 March 2011 0956	23 March 2011 0755	0	0	5	5
Composite 002	21-22 March 2011 0945-0930	23 March 2011 0755	0	0	5	5
Rearing unit water control		23 March 2011 0755	5	5	-	-
Reconstituted water control		23 March 2011 0755	-	-	0	5

Relevant information: The ambient waters and effluents were clear with a yellow tinge. Upon receipt at the laboratory the total residual chlorine concentration of the effluents ranged from 0.01 to 0.02 mg/L making dechlorination unnecessary. After warming to the 25°C test temperature, the ambient waters and effluents were shaken vigorously for approximately 15 seconds to release supersaturated dissolved oxygen. Physicochemical parameters measured prior to test initiation and at test end are on the next page.

Results of screening bioassays of Bryan WWTP outfall 002 effluent

Bioassay Number: 11-4034-NW

Relevant information (cont.): Physicochemical parameters recorded prior to test initiation were:

Sample	Temperature (°C)		Dissolved Oxygen (mg/L) Initial-Adjusted	pH (S.U.)	Conductivity (µmhos/cm)
	Upon Rept.	Test Init.			
Pigeon Run upstream	2.3	25.7	12.2-7.9	8.22	817
Acute mixing zone	2.0	25.1	11.0-8.0	8.06	1268
Grab 002, 21 March 2011	2.4	25.1	9.1-7.9	7.92	1618
Grab 002, 22 March 2011	3.7	24.8	9.1-8.0	7.87	1661
Composite 002	3.2	24.5	9.5-8.0	7.95	1664
Rearing unit water control	21.6	24.8	8.3	7.89	477
Reconstituted water control	24.7	24.7	7.9	8.06	577

Physicochemical values for the laboratory controls are the averages of two measurements.

Physicochemical parameters recorded at *P. promelas* (FHM) and *C. dubia* (CDU) test end were:

Sample	Temperature (°C)		Dissolved Oxygen (mg/L)		pH (S.U.)		Conductivity (µmhos/cm)	
	FHM	CDU	FHM	CDU	FHM	CDU	FHM	CDU
Pigeon Run upstream	-	-	-	-	-	-	-	-
Acute mixing zone	-	-	-	-	-	-	-	-
Grab 002, 21 March 2011	-	-	-	-	-	-	-	-
Grab 002, 22 March 2011	-	-	-	-	-	-	-	-
Composite 002	-	-	-	-	-	-	-	-
Rearing unit water control	-	-	-	-	-	-	-	-
Reconstituted water control	-	-	-	-	-	-	-	-

Physicochemical values for the laboratory controls are the averages of two measurements.

Appendix 1.

Results of previous bioassays of Bryan WWTP outfall 002 effluent

Screening Results

Bioassay Number	Date (mm/yy)	Acutely Toxic (Y/N)	<i>Pimephales promelas</i> mortality (plus/or exhibiting other adverse effects)			<i>Ceriodaphnia dubia</i> mortality (plus/or exhibiting other adverse effects)		
			Day 1 Grab	Day 2 Grab	Composite	Day 1 Grab	Day 2 Grab	Composite
02-2594-NW	02/02	N	0	0	5	0	0	0
02-2602-NW	03/02	N	0	0	0	0	0	0
06-3395-NW	04/06	N	0	0	5	0	0	0
06-3432-NW	06/06	N	0	10	5	0	0	0

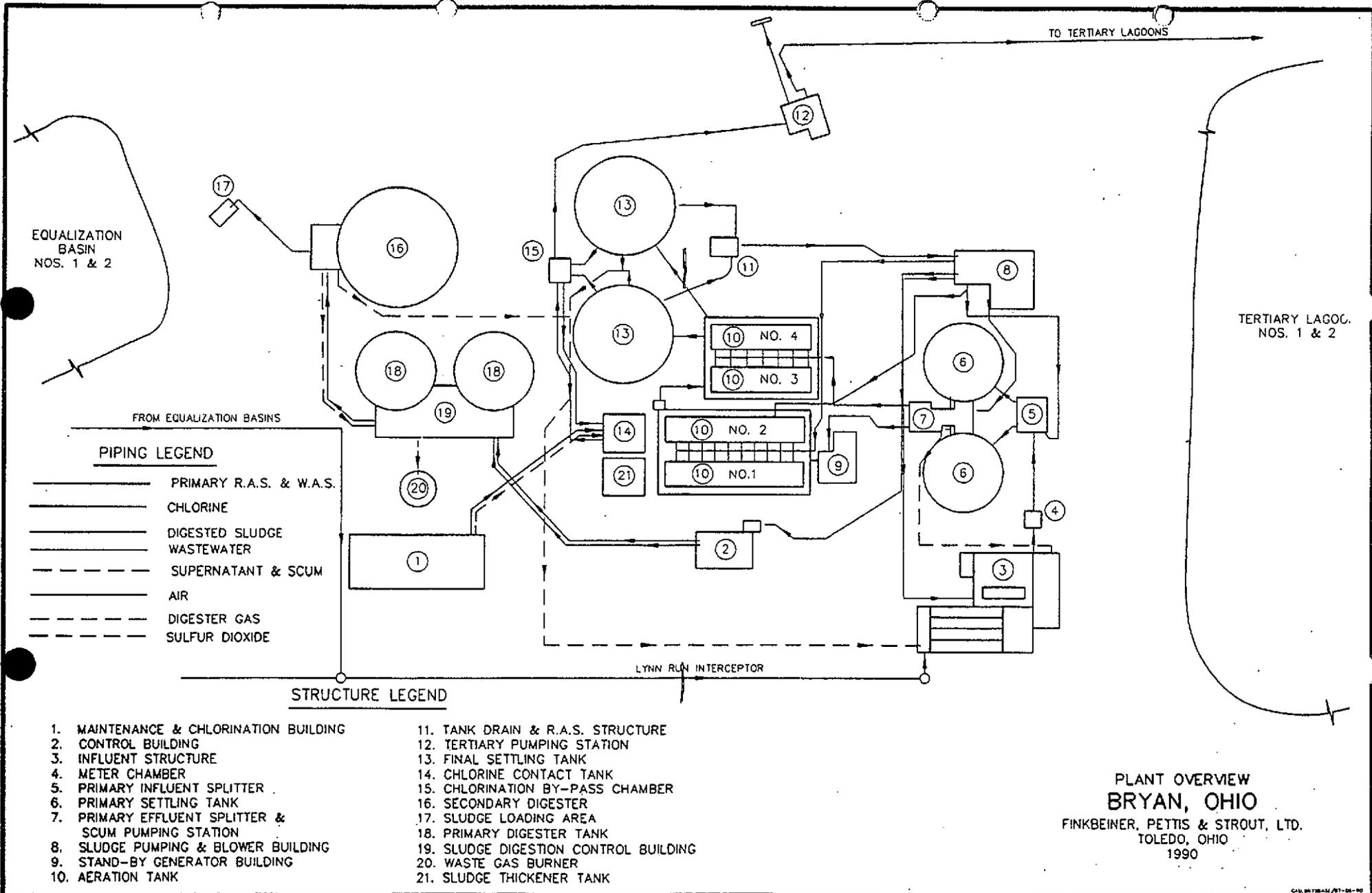
* All previous results are available electronically upon request.

Definitive Results

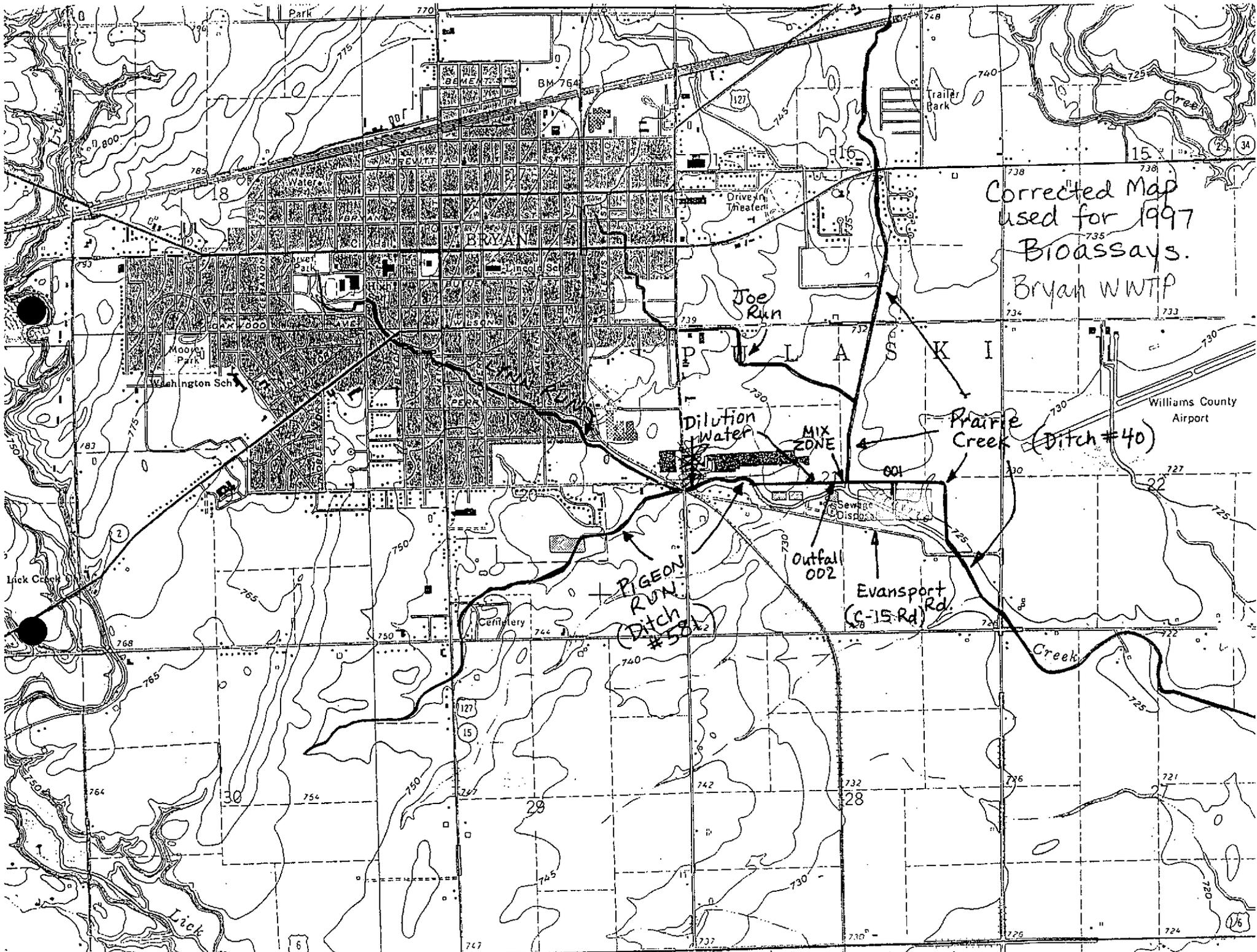
Bioassay Number	<i>Pimephales promelas</i>			<i>Ceriodaphnia dubia</i>		
	LC50 (95 percent confidence limits)	EC50 (95 percent confidence limits)	LC50 TUa (EC50 TUa)	LC50 (95 percent confidence limits)	EC50 (95 percent confidence limits)	LC50 TUa (EC50 TUa)
-	-	-	-	-	-	-
-	-	-	-	-	-	-

Definitions

- The LC50s and EC50s are reported as percent by volume effluent (%).
- The LC50 is the effluent concentration that is lethal to 50 percent of a species of test organism in a stated exposure period. The EC50 includes mortality plus data on other adverse effects. Both are usually obtained by statistical or graphical methods.
- The TUa is calculated by dividing 100 by the LC50 or EC50.



PLANT OVERVIEW
BRYAN, OHIO
 FINKBEINER, PETTIS & STROUT, LTD.
 TOLEDO, OHIO
 1990



Corrected Map
used for 1997
Bioassays.
Bryan WWTP

Dilution water
MIX ZONE

PIGEON
RUN
(Ditch #58)

Prairie
Creek (Ditch #40)

Evansport
Rd.
(C-15 Rd.)

BRYAN

LASKI

Lick Creek

Lick

Creek

Williams County
Airport

Sewer
Disposal

Cemetery

Drive-In
Theater

Joe
Run

Trailer
Park

Moore
Park

Washington Sch.

Park

BM 764

6

747

127

15

28

730

75

34

15

18

30

29

738

734

730

730

726

726

726

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795

792

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740

742

732

800

797

730

730

740

742

732

Creek

Williams County
Airport

Creek

Creek

Creek

OHIO EPA, DES, BIOASSAY SECTION, SAMPLE SUBMISSION FORM

Name of Entity and Outfall Tested: Bryan WWTP Outfall 002 OEPA Permit #: 2PD00018
 Facility Address: 1521 Evansport Rd., Bryan, OH NPDES#: OH0020532
 Receiving Stream (R.M.): Pigeon Run (0.05) County: Williams
 Collector(s) (Print Full Name): Kathryn McKibben, Brent Kuenzli
 Collector(s) Signature: Kathryn McKibben, Brent Kuenzli

Upstream control samples shall be collected upstream from any discharge/receiving stream interactions. Generally, acute (near field) samples should be collected in the center of the effluent plume 5 times the stream depth downstream from the outfall and chronic (far field) samples should be collected midplume, or if a plume no longer exists midstream 5 times the stream width downstream from the outfall. If atypical mixing characteristics exist, samples can be collected at closer distances than the above guidelines to insure the samples are within the effluent plume. If a mixing zone sample cannot be safely collected, one can be prepared using equal aliquots of the day 1 effluent grab and upstream dilution water (be sure to write "manual" in the "Location of Sample Collection" space provided below).

Sample Identification	Effluent- Day 1 Grab	Effluent- Day 2 Grab	Effluent- Composite	Upstream/ Dilution-Grab	Acute Mixing Zone-Grab	Chronic Mixing Zone-Grab
Location of Sample Collection		Effluent @ Outfall 002	Effluent @ Outfall 002			
If Composite, Sample Volume and Frequency			250 ml / 15 min per 24 hrs.			
Collection Containers, Types and Number		(1) gal cubi	(2) gal cubi			
Volume Collected		1 gallon	2 gallons			
Date of Sample Collection		032211	032211 / 032211			
Time of Sample Collection, beginning-Ending Time		0956	0945 / 0930			
Flow (in MGD)		—	1.95 MGD			
Temperature (°C)		11.52				
Dissolved Oxygen (mg/L)		9.85				
pH (S.U.)		7.35				
Conductivity (µmhos/cm)		1229				
Specific Conductivity		1655				
Total Residual Chlorine (mg/L)						

D.O. % saturation 90.8

Place a check mark next to all the appropriate characteristics of the outfall/mixing zone:

- Turbulent Mixing Onshore Pipe Shore hugging Plume Flume
 Nonturbulent Mixing Offshore Pipe Rapid Complete Mixing Diffuser

Notes: Flow = 172341820 = 1,947,630 gpd 1.95 MGD
174,289,450 - ↑

Name and Title	YEAR	MONTH	DAY	HOUR	MINUTE
Received from: <i>W. R. McMillin</i>	11	03	22	12	45
Received by: <i>J. C. McMillin</i>	11	03	23	06	55
Received from:					
Received by:					
Approved from:					
Approved by:					
Received from:					
Received by:					
Approved from:					
Approved by:					

In the vicinity of the discharge: Stream Depth _____ Stream Width _____

CHEMISTRY SAMPLE NUMBERS
129960-964

Location Map Drawing

Describe and map the upstream control and any mixing zone sampling sites so someone else could sample at the exact same points (include landmarks if possible). Stream depth should be recorded for any acute (near field) mixing zone sample and stream width for any chronic (far field) mixing zone sample. For the mixing zone sample location, delineate the distance downstream from the outfall and map the effluent plume. Be specific on discharge and receiving stream characteristics.

129951

OHIO EPA, DES, BIOASSAY SECTION, SAMPLE SUBMISSION FORM

Name of Entity and Outfall Tested: Bryan WWTP Outfall 002 OEPA Permit #: 2PD00018
 Facility Address: 1521 Evansport Rd., Bryan, OH NPDES#: OH 0020532
 Receiving Stream (R.M.): Pigeon Run (0.05) County: Williams
 Collector(s) [Print Full Name]: Kathryn McKibben / Brent Kuenzli
 Collector(s) Signature: [Signatures]

Upstream control samples shall be collected upstream from any discharge/receiving stream interactions. Generally, acute (near field) samples should be collected in the center of the effluent plume 5 times the stream depth downstream from the outfall and chronic (far field) samples should be collected midplume, or if a plume no longer exists midstream 5 times the stream width downstream from the outfall. If atypical mixing characteristics exist, samples can be collected at closer distances than the above guidelines to insure the samples are within the effluent plume. If a mixing zone sample cannot be safely collected, one can be prepared using equal aliquots of the day 1 effluent grab and upstream dilution water (be sure to write "manual" in the "Location of Sample Collection" space provided below).

Sample Identification	Effluent- Day 1 Grab	Effluent- Day 2 Grab	Effluent- Composite	Upstream/ Dilution-Grab	Acute Mixing Zone-Grab	Chronic Mixing Zone-Grab
Location of Sample Collection	Effluent @ Outfall 002			Pigeon Run 30' upst Outfall 002	Pigeon Run 30' dst Outfall 002	
If Composite, Sample Volume and Frequency						
Collection Containers, Types and Number	(1) gal cubi			(3) gal cubis	(1) gal cubi	
Volume Collected	1 gallon			3 gallons	1 gallon	
Date of Sample Collection	032111			032111	032111	
Time of Sample Collection, beginning-Ending Time	0932			1005	1001	
Flow (in MGD)						
Temperature (°C)	11.09			7.88	9.77	
Dissolved Oxygen (mg/L)	8.12			14.18	11.70	
pH (S.U.)	7.29			7.9 7.9	7.8	
Conductivity (µmhos/cm)	1191			552	930	
Specific Conductivity Total Residual Chlorine (mg/L)	1622			820	1351	

D.O. % Saturation 74.1 119.7 103.5

Place a check mark next to all the appropriate characteristics of the outfall/mixing zone:

- Turbulent Mixing
- Onshore Pipe
- Shore hugging Plume
- Flume
- Nonturbulent Mixing
- Offshore Pipe
- Rapid Complete Mixing
- Diffuser

Notes:

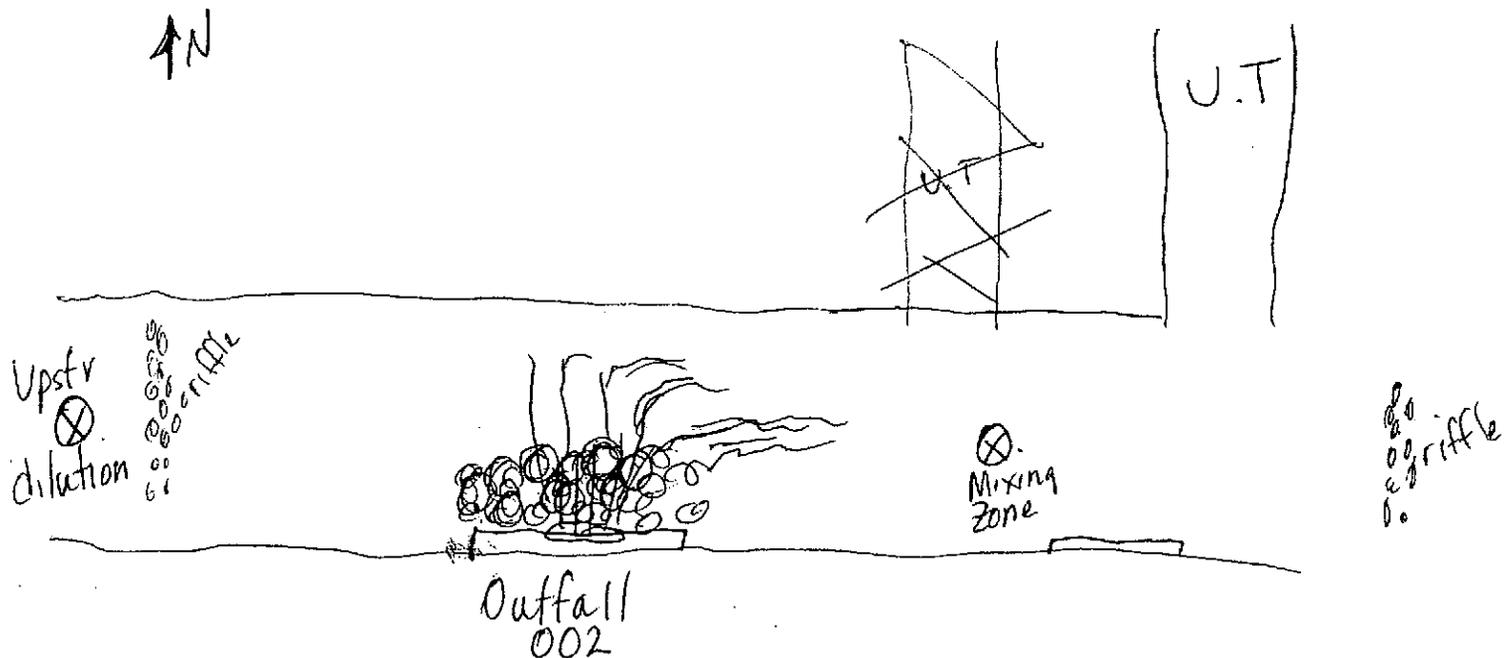
Name and Title	YEAR	MONTH	DAY	HOUR	MINUTE
Received from: <i>Kathryn M. Kelly</i>	<i>11</i>	<i>03</i>	<i>21</i>	<i>11</i>	<i>45</i>
Received by: <i>J. M. Kelly</i>	<i>11</i>	<i>03</i>	<i>22</i>	<i>07</i>	<i>45</i>
Received from:					
Received by:					
Received from:					
Received by:					
Received from:					
Received by:					
Received from:					
Received by:					

In the vicinity of the discharge: Stream Depth _____ Stream Width _____

CHEMISTRY SAMPLE NUMBERS
<i>129950</i>

Location Map Drawing

Describe and map the upstream control and any mixing zone sampling sites so someone else could sample at the exact same points (include landmarks if possible). Stream depth should be recorded for any acute (near field) mixing zone sample and stream width for any chronic (far field) mixing zone sample. For the mixing zone sample location, delineate the distance downstream from the outfall and map the effluent plume. Be specific on discharge and receiving stream characteristics.



Laboratory Inorganic Analysis Data Report

Sample 129960		Matrix WW		Collected by MCKIBBEN, KATHRYN	
Date Received 03/23/2011 7:18 AM	Begin	End	Sample Type COMPLIANCE		
Date Collected 03/21/2011 9:45 AM	03/22/2011 9:30 AM	Station ID P07E01			
Program NWDO-DSW		Customer ID 11KSM0321			
Client DSW_C		External ID 70627			
OEPA Division DSW					
Location 2 - BRYAN WWTP 002 OUTFALL TO PIGEON RUN					

Analysis	Parameter	Storet	Result	RL	Units	Date	Qualifier
CBOD-5	CBOD5	P80082	2.3	2	mg/L	03/23/2011	
Solids_Diss	Total Dissolved Solids	P70300	960	10	mg/L	03/24/2011	
Solids_Susp	Total Suspended Solids	P530	13	5	mg/L	03/24/2011	
ICPMS_(WAT)	Arsenic	P1002	<2.0	2	ug/L	03/30/2011	
ICPMS_(WAT)	Cadmium	P1027	<0.20	0.2	ug/L	03/30/2011	
ICPMS_(WAT)	Chromium	P1034	<2.0	2	ug/L	03/30/2011	
ICPMS_(WAT)	Copper	P1042	10.8	2	ug/L	03/30/2011	
ICPMS_(WAT)	Lead	P1051	<2.0	2	ug/L	03/30/2011	
ICPMS_(WAT)	Nickel	P1067	5.0	2	ug/L	03/30/2011	
ICPMS_(WAT)	Selenium	P1147	<2.0	2	ug/L	03/30/2011	
ICP_(WAT)	Aluminum	P1105	615	200	ug/L	04/12/2011	
ICP_(WAT)	Barium	P1007	202	15	ug/L	04/12/2011	
ICP_(WAT)	Calcium	P916	94	2	mg/L	04/12/2011	
ICP_(WAT)	Hardness, Total	P900	395	10	mg/L	04/12/2011	
ICP_(WAT)	Iron	P1045	81	50	ug/L	04/12/2011	
ICP_(WAT)	Magnesium	P927	39	1	mg/L	04/12/2011	
ICP_(WAT)	Manganese	P1055	<10	10	ug/L	04/12/2011	
ICP_(WAT)	Potassium	P937	8	2	mg/L	04/12/2011	
ICP_(WAT)	Sodium	P929	198	5	mg/L	04/12/2011	
ICP_(WAT)	Strontium	P1082	3570	30	ug/L	04/12/2011	
ICP_(WAT)	Zinc	P1092	33	10	ug/L	04/12/2011	
Mercury_(WAT)	Mercury	P71900	<0.20	0.2	ug/L	04/14/2011	
Alkalinity	Alkalinity	P410	254	5	mg/L	03/29/2011	
Ammonia	Ammonia	P610	<0.050	0.05	mg/L	03/24/2011	
COD	COD	P340	22	20	mg/L	03/30/2011	
Chloride	Chloride	P940	285	25	mg/L	03/23/2011	
Conductivity	Conductivity	P95	1710	2	umhos/cm	03/30/2011	
Nitrate	Nitrate+nitrite	P630	12.1	0.5	mg/L	03/24/2011	
TKN	TKN	P625	1.40	0.2	mg/L	03/29/2011	
TP	Total Phosphorus	P665	0.122	0.01	mg/L	03/29/2011	

Field Comments

Lab Comments

QC / Sample Comments

Approved By

VDESHMUKH

On

04/20/2011

Laboratory Inorganic Analysis Data Report

Sample 129961		
Date Received 03/23/2011 7:18 AM	Matrix WW	Collected by MCKIBBEN, KATHRYN
Begin	End	Sample Type COMPLIANCE
Date Collected	03/22/2011 9:56 AM	Station ID P07E01
Program NWDO-DSW		Customer ID 11KSM0322
Client DSW_C		External ID 70633
OEPA Division DSW		
Location 1 - BRYAN WWTP 002 OUTFALL TO PIGEON RUN		

Analysis	Parameter	Storet	Result	RL	Units	Date	Qualifier
<i>Oil&Grease</i>	Oil & Grease	P556	<2.0	2	mg/L	04/04/2011	
<i>Cyanide_Free</i>	Cyanide, Free	P718	<5	5	ug/L	03/31/2011	

Field Comments

Lab Comments

QC / Sample Comments

Approved By **On**

Laboratory Inorganic Analysis Data Report

Sample 129950		
Date Received 03/22/2011 7:30 AM	Matrix SW	Collected by MCKIBBEN, KATIE
Begin	End	Sample Type COMPLIANCE
Date Collected	03/21/2011 9:32 AM	Station ID P07W16
Program NWDO-DSW		Customer ID 11KSM0321
Client DSW_C		External ID 70628
OEPA Division DSW		
Location 5 - PIGEON RUN JUST UPST. BRYAN WWTP 002		

Analysis	Parameter	Storet	Result	RL	Units	Date	Qualifier
ICP_(WAT)	Calcium	P916	66	2	mg/L	04/12/2011	
ICP_(WAT)	Hardness, Total	P900	243	10	mg/L	04/12/2011	
ICP_(WAT)	Magnesium	P927	19	1	mg/L	04/12/2011	

Field Comments

Lab Comments

QC / Sample Comments

Approved By **On**

Laboratory Organic Analysis Data Report

Sample 129962			
Date Received 03/23/2011 7:18 AM	Matrix WW	Collected by MCKIBBEN, KATIE	
Begin	End	Sample Type COMPLIANCE	
Date Collected 03/21/2011 9:45 AM	03/22/2011 9:30 AM	Station ID P07E01	
Program NWDO-DSW		Customer ID 11KSM0322	
Client DSW_C		External ID 70642	
OEPA Division DSW			
Location 3-BRYAN WWTP 002 OUTFALL TO PIGEON RUN			

EPA Method Parameter	Units	Cas Number	Result	RL	Analyzed	Qualifier
USEPA 625	ug/L					
Acenaphthene		000083-32-9	<5.2	5.2	03/29/2011	
Acenaphthylene		000208-96-8	<5.2	5.2	03/29/2011	
Anthracene		000120-12-7	<2.1	2.1	03/29/2011	
Benzo[a]anthracene		000056-55-3	<2.1	2.1	03/29/2011	
Benzo[a]pyrene		000050-32-8	<2.1	2.1	03/29/2011	
Benzo[b]fluoranthene		000205-99-2	<2.1	2.1	03/29/2011	
Benzo[g,h,i]perylene		000191-24-2	<2.1	2.1	03/29/2011	
Benzo[k]fluoranthene		000207-08-9	<2.1	2.1	03/29/2011	
bis(2-Chloroethoxy)methane		000111-91-1	<5.2	5.2	03/29/2011	
bis(2-Chloroethyl)ether		000111-44-4	<2.1	2.1	03/29/2011	
bis(2-Chloroisopropyl)ether		000108-60-1	<2.1	2.1	03/29/2011	
bis(2-Ethylhexyl)phthalate		000117-81-7	<10.4	10.4	03/29/2011	
4-Bromophenyl-phenylether		000101-55-3	<5.2	5.2	03/29/2011	
Butylbenzylphthalate		000085-68-7	<2.1	2.1	03/29/2011	
4-Chloro-3-methylphenol		000059-50-7	<10.4	10.4	03/29/2011	
2-Chloronaphthalene		000091-58-7	<5.2	5.2	03/29/2011	
2-Chlorophenol		000095-57-8	<2.1	2.1	03/29/2011	
4-Chlorophenyl-phenylether		007005-72-3	<2.1	2.1	03/29/2011	
Chrysene		000218-01-9	<2.1	2.1	03/29/2011	
Di-n-butylphthalate		000084-74-2	<5.2	5.2	03/29/2011	
Di-n-octylphthalate		000117-84-0	<2.1	2.1	03/29/2011	
Dibenz[a,h]anthracene		000053-70-3	<2.1	2.1	03/29/2011	
1,3-Dichlorobenzene		000541-73-1	<2.1	2.1	03/29/2011	
1,4-Dichlorobenzene		000106-46-7	<2.1	2.1	03/29/2011	
1,2-Dichlorobenzene		000095-50-1	<2.1	2.1	03/29/2011	
2,4-Dichlorophenol		000120-83-2	<2.1	2.1	03/29/2011	
Diethylphthalate		000084-66-2	<5.2	5.2	03/29/2011	
2,4-Dimethylphenol		000105-67-9	<10.4	10.4	03/29/2011	
Dimethylphthalate		000131-11-3	<5.2	5.2	03/29/2011	
4,6-Dinitro-2-methylphenol		000534-52-1	<5.2	5.2	03/29/2011	
2,4-Dinitrophenol		000051-28-5	<20.8	20.8	03/29/2011	
2,6-Dinitrotoluene		000606-20-2	<2.1	2.1	03/29/2011	
2,4-Dinitrotoluene		000121-14-2	<2.1	2.1	03/29/2011	
Fluoranthene		000206-44-0	<2.1	2.1	03/29/2011	
Fluorene		000086-73-7	<2.1	2.1	03/29/2011	
Hexachlorobenzene		000118-74-1	<2.1	2.1	03/29/2011	
Hexachlorobutadiene		000087-68-3	<2.1	2.1	03/29/2011	
Hexachlorocyclopentadiene		000077-47-4	<2.1	2.1	03/29/2011	
Hexachloroethane		000067-72-1	<5.2	5.2	03/29/2011	
Indeno[1,2,3-cd]pyrene		000193-39-5	<2.1	2.1	03/29/2011	
Isophorone		000078-59-1	<2.1	2.1	03/29/2011	
N-Nitroso-di-n-propylamine		000621-64-7	<2.1	2.1	03/29/2011	
N-Nitrosodiphenylamine		000086-30-6	<5.2	5.2	03/29/2011	
Naphthalene		000091-20-3	<2.1	2.1	03/29/2011	
Nitrobenzene		000098-95-3	<2.1	2.1	03/29/2011	
2-Nitrophenol		000088-75-5	<2.1	2.1	03/29/2011	
4-Nitrophenol		000100-02-7	<20.8	20.8	03/29/2011	
Pentachlorophenol		000087-86-5	<10.4	10.4	03/29/2011	
Phenanthrene		000085-01-8	<2.1	2.1	03/29/2011	
Phenol		000108-95-2	<2.1	2.1	03/29/2011	
Pyrene		000129-00-0	<2.1	2.1	03/29/2011	

Laboratory Organic Analysis Data Report

Sample 129962			
Date Received 03/23/2011 7:18 AM	Matrix WW	Collected by MCKIBBEN, KATIE	
Begin	End	Sample Type COMPLIANCE	
Date Collected 03/21/2011 9:45 AM	03/22/2011 9:30 AM	Station ID P07E01	
Program NWDO-DSW		Customer ID 11KSM0322	
Client DSW_C		External ID 70642	
OEPA Division DSW			
Location 3-BRYAN WWTP 002 OUTFALL TO PIGEON RUN			

EPA Method Parameter	Units	Cas Number	Result	RL	Analyzed	Qualifier
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USEPA 625	ug/L					
1,2,4-Trichlorobenzene		000120-82-1	<2.1	2.1	03/29/2011	
2,4,6-Trichlorophenol		000088-06-2	<5.2	5.2	03/29/2011	

Field Comments

Lab Comments

QC / Sample Comments

Approved By **On**

Laboratory Organic Analysis Data Report

Sample 129963	Matrix WW	Collected by MCKIBBEN, KATTE
Date Received 03/23/2011 7:18 AM	Begin	Sample Type COMPLIANCE
Date Collected	03/22/2011 9:56 AM	Station ID
Program NWDO-DSW		Customer ID
Client DSW_C		External ID 70643
OEPA Division DSW		
Location 4 - BRYAN WWTP 002 OUTFALL TO PIGEON RUN		

USEPA Method	Parameter	Units	Cas Number	Result	RL	Analyzed	Qualifier
USEPA 624		ug/L					
	Benzene		000071-43-2	<0.50	0.5	03/24/2011	
	Bromobenzene		000108-86-1	<0.50	0.5	03/24/2011	
	Bromochloromethane		000074-97-5	<0.50	0.5	03/24/2011	
	Bromodichloromethane		000075-27-4	<0.50	0.5	03/24/2011	
	Bromoform		000075-25-2	<0.50	0.5	03/24/2011	
	Bromomethane		000074-83-9	<0.50	0.5	03/24/2011	
	n-Butylbenzene		000104-51-8	<0.50	0.5	03/24/2011	
	sec-Butylbenzene		000135-98-8	<0.50	0.5	03/24/2011	
	tert-Butylbenzene		000098-06-6	<0.50	0.5	03/24/2011	
	Carbon tetrachloride		000056-23-5	<0.50	0.5	03/24/2011	
	Chlorobenzene		000108-90-7	<0.50	0.5	03/24/2011	
	Chloroethane		000075-00-3	<0.50	0.5	03/24/2011	
	Chloroform		000067-66-3	<0.50	0.5	03/24/2011	
	Chloromethane		000074-87-3	<0.50	0.5	03/24/2011	
	2-Chlorotoluene		000095-49-8	<0.50	0.5	03/24/2011	
	4-Chlorotoluene		000106-43-4	<0.50	0.5	03/24/2011	
	Dibromochloromethane		000124-48-1	<0.50	0.5	03/24/2011	
	1,2-Dibromo-3-chloropropane		000096-12-8	<0.50	0.5	03/24/2011	
	1,2-Dibromoethane		000106-93-4	<0.50	0.5	03/24/2011	
	Dibromomethane		000074-95-3	<0.50	0.5	03/24/2011	
	1,2-Dichlorobenzene		000095-50-1	<0.50	0.5	03/24/2011	
	1,3-Dichlorobenzene		000541-73-1	<0.50	0.5	03/24/2011	
	1,4-Dichlorobenzene		000106-46-7	<0.50	0.5	03/24/2011	
	Dichlorodifluoromethane		000075-71-8	<0.50	0.5	03/24/2011	
	1,1-Dichloroethane		000075-34-3	<0.50	0.5	03/24/2011	
	1,2-Dichloroethane		000107-06-2	<0.50	0.5	03/24/2011	
	1,1-Dichloroethene		000075-35-4	<0.50	0.5	03/24/2011	
	cis-1,2-Dichloroethene		000156-59-2	<0.50	0.5	03/24/2011	
	trans-1,2-Dichloroethene		000156-60-5	<0.50	0.5	03/24/2011	
	1,2-Dichloropropane		000078-87-5	<0.50	0.5	03/24/2011	
	1,3-Dichloropropane		000142-28-9	<0.50	0.5	03/24/2011	
	2,2-Dichloropropane		000594-20-7	<0.50	0.5	03/24/2011	
	1,1-Dichloropropene		000563-58-6	<0.50	0.5	03/24/2011	
	cis-1,3-Dichloropropene		010061-01-5	<0.50	0.5	03/24/2011	
	trans-1,3-Dichloropropene		010061-02-6	<0.50	0.5	03/24/2011	
	Ethylbenzene		000100-41-4	<0.50	0.5	03/24/2011	
	Hexachlorobutadiene		000087-68-3	<0.50	0.5	03/24/2011	
	Isopropylbenzene		000098-82-8	<0.50	0.5	03/24/2011	
	4-Isopropyltoluene		000099-87-6	<0.50	0.5	03/24/2011	
	Methylene chloride		000075-09-2	<0.50	0.5	03/24/2011	
	Naphthalene		000091-20-3	<0.50	0.5	03/24/2011	
	n-Propylbenzene		000103-65-1	<0.50	0.5	03/24/2011	
	Styrene		000100-42-5	<0.50	0.5	03/24/2011	
	1,1,1,2-Tetrachloroethane		000630-20-6	<0.50	0.5	03/24/2011	
	1,1,2,2-Tetrachloroethane		000079-34-5	<0.50	0.5	03/24/2011	
	Tetrachloroethene		000127-18-4	<0.50	0.5	03/24/2011	
	Toluene		000108-88-3	<0.50	0.5	03/24/2011	
	1,2,3-Trichlorobenzene		000087-61-6	<0.50	0.5	03/24/2011	
	1,2,4-Trichlorobenzene		000120-82-1	<0.50	0.5	03/24/2011	
	1,1,1-Trichloroethane		000071-55-6	<0.50	0.5	03/24/2011	
	1,1,2-Trichloroethane		000079-00-5	<0.50	0.5	03/24/2011	

Laboratory Organic Analysis Data Report

Sample 129963	Date Received 03/23/2011 7:18 AM	Matrix WW	Collected by MCKIBBEN, KATIE
Begin	Date Collected 03/22/2011 9:56 AM	End	Sample Type COMPLIANCE
Program NWDO-DSW			Station ID
Client DSW_C			Customer ID
OEPA Division DSW			External ID 70643
Location 4 - BRYAN WWTP 002 OUTFALL TO PIGEON RUN			

EPA Method Parameter	Units	Cas Number	Result	RL	Analyzed	Qualifier
USEPA 624	ug/L					
Trichloroethene		000079-01-6	<0.50	0.5	03/24/2011	
Trichlorofluoromethane		000075-69-4	<0.50	0.5	03/24/2011	
1,2,3-Trichloropropane		000096-18-4	<0.50	0.5	03/24/2011	
1,2,4-Trimethylbenzene		000095-63-6	<0.50	0.5	03/24/2011	
1,3,5-Trimethylbenzene		000108-67-8	<0.50	0.5	03/24/2011	
Vinyl chloride		000075-01-4	<0.50	0.5	03/24/2011	
o-Xylene		000095-47-6	<0.50	0.5	03/24/2011	
Total m&p-xylenes		000108-38-3	<0.50	0.5	03/24/2011	

Field Comments

Lab Comments

QC / Sample Comments

Approved By **On**