

SOP Number: 3004	Revision 06	Title: Beach Sampling	Page 17 of 23
---------------------	----------------	--------------------------	---------------

APPENDIX D - NOWCASTING PROTOCOL FOR EDGEWATER BEACH

NOWCASTING PROTOCOL FOR EDGEWATER BEACH – 2010

1. Collect sample data
 - A. Use Beach Sampling SOP – 3004-06.

2. Set up computer
 - A. Insert Sprint card into laptop.
 - B. Power ON.
 - C. Log on using information on sticker (bottom left of keyboard).
 - i. Make sure **Workstation Only** is checked.
 - D. Connect to internet using Sprint PCS shortcut on laptop desktop.
 - i. Click **GO** when Sprint PCS window says **Connected**.

3. Check Email OR Internet to obtain rainfall data
 - A. Open **Edgewater Beach Folder** on laptop desktop.
 - B. Open GroupWise and login.
 - C. Check for email from radarner@usgs.gov for 24 and 48 hour total rainfall and record onto field sheet.
 - D. Exit email.

If no rainfall email was received from USGS:

- A. Open **Edgewater Beach Folder** on laptop desktop.
 - B. Open NWS Rainfall link.
 - C. For 24 hour data, add up the numbers in the 6 hour column from 8:51AM yesterday to 7:51AM today.
 - D. For 48 hour data, add up the numbers in the 6 hour column from 8:51AM the day **before** yesterday to 7:51AM today.
 - E. Check **backup** box on field sheet.
-
4. Wave Height
 - A. Convert wave height to feet.
 - B. If wave height cannot be determined using measuring stick, estimate wave height and assign category number.
 - i. Check **backup** box on field sheet.

 5. Obtain turbidity data
 - A. Use Turbidity SOP-2007.

SOP Number: 3004	Revision 06	Title: Beach Sampling	Page 18 of 23
---------------------	----------------	--------------------------	---------------

6. Run model

- A. Open **Edgewater Beach Folder** on laptop desktop.
- B. Open **Edgewater Model 2010**.
- C. Enter model parameters from field sheet.
- D. When asked if radar rainfall was used, enter **Y** if USGS email was received or **N** if email was not received and NWS rainfall was used.
- E. Record lower, upper, predicted and probability *E. coli* densities on field sheet.
- F. Based on probability percentage, season and rainfall determine NOWCAST posting and check appropriate box on field sheet.
- G. If problems with model arise, please call John Rhoades at 216-641-6000 ext. 2219.
- H. Close model and proceed to NOWCAST website.

7. NOWCAST

- A. Open **Edgewater Beach Folder** on laptop desktop.
- B. Open NOWCAST website link.
- C. Click on **Edgewater Beach** on right-hand side of page.
- D. Click on **Login** under Data Upload at bottom on page.
- E. Enter in login information:
 - Username: neorsd
 - Password: mark2010
- F. Click **Add Record**.
- G. Enter data
 - i. Use collection time from EAST sample.
 - ii. Enter in field parameters (convert water temperature to °F).
 - iii. *E. coli* is Predicted *E. coli*.
 - iv. Rain at Hopkins= NWS data; Radar Rain= USGS email.
 - v. Enter predicted water quality, probability and advisory.
 - vi. Enter any relevant notes and initials of model runner into the **Notes** section.
 - vii. Click **ADD**.
- H. Review information and click edit/modify if anything needs to be changed.

8. Update NEORSD website

- A. Open **Edgewater Beach Folder** on laptop desktop.
- B. Double-click the NEORSD link.
(http://www.neorsd.org/beach_chk.php)
- C. Enter your NEORSD personal login information.

SOP Number: 3004	Revision 06	Title: Beach Sampling	Page 19 of 23
---------------------	----------------	--------------------------	---------------

- D. Double-click NEORSD link in the **Edgewater Beach Folder** again.
(http://www.neorsd.org/beach_chk.php)
- E. Check appropriate water quality box (*Good* or *Poor*) and click **Submit**.
- F. Return to NEORSD homepage to review your submission.

9. Update NOWCAST Information Line (must be done at Edgewater Beach, after NOWCAST website is updated and after NOWCAST prediction for Huntington is posted)

A. From cell phone

- i. Call **216-881-6600**.
- ii. Ask for extension **6890**.
- iii. Dial **6003** and press #.
- iv. Enter password **13579** and press #.
- v. Press **3** to administer a new greeting.
- vi. Press **3** again to activate a new greeting.
- vii. Enter one of the numbered options (**1-7**) to change the greeting for the day (see below).

B. From an EMSC phone

- i. Press **Audix/Voicemail** button on phone.
- ii. Dial **6890**.
- iii. Dial **6003** and press #.
- iv. Enter password **13579** and press #.
- v. Press **3** to administer new greeting.
- vi. Press **3** to activate new greeting.
- vii. Enter one of the numbered options (**1-7**) to change the greeting for the day (see below).

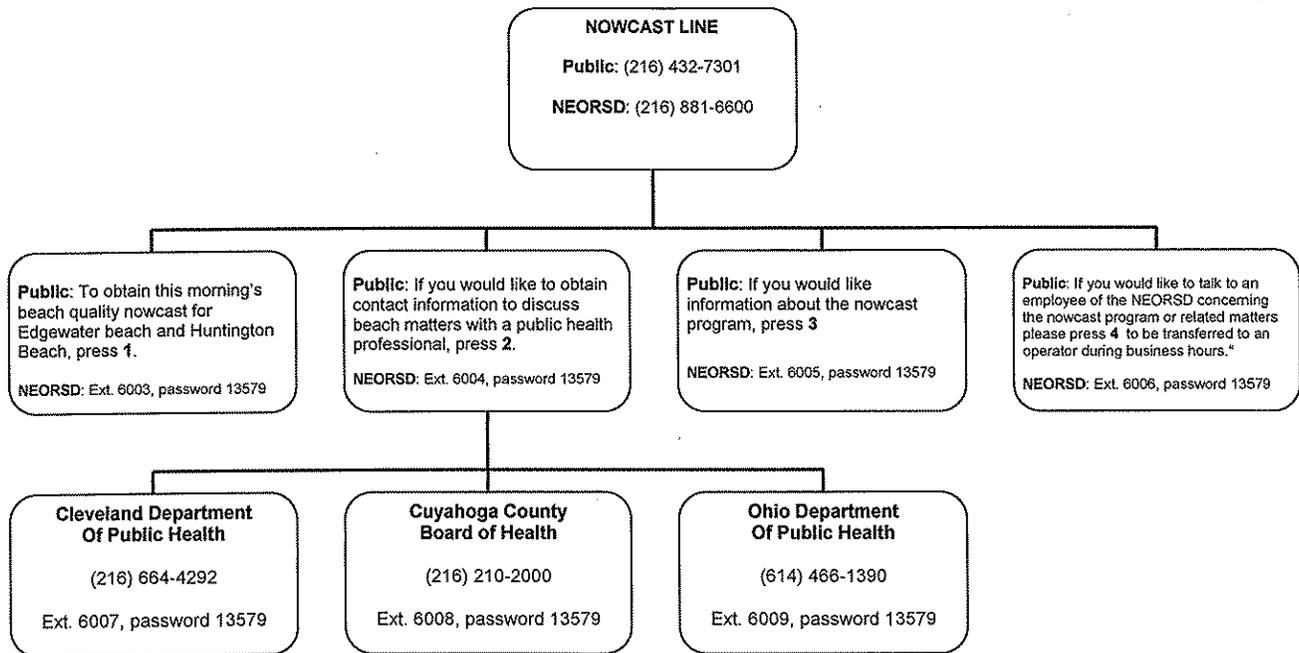
Option Selection Number	Edgewater Conditions	Huntington Conditions	Message Text (see below)
1	Good	Good	A
2	Good	Poor	B
3	Poor	Good	C
4	Poor	Poor	D
5	Good	Not Available	E
6	Not Available	Not Available	F
7	Record special message for the day		G

Note: If greeting is same as previous day, message does not need to be updated.

SOP Number: 3004	Revision 06	Title: Beach Sampling	Page 20 of 23
---------------------	----------------	--------------------------	---------------

Message Text (what caller will hear):

- A** “Today’s nowcast prediction for water quality at **Edgewater is Good**. Today’s nowcast prediction for **Huntington is Good**. Be aware that water quality can quickly change from Good to Poor in response to rain and wind storm conditions.”
- B** “Today’s nowcast prediction for water quality at **Edgewater is Good**. Today’s nowcast prediction for **Huntington is Poor**. A nowcast prediction of Poor means that bacteria levels are likely to be high. Swimming is not advised, especially for children, the elderly and those in ill health. Full body water contact may result in illness. Be aware that water quality can quickly change from Good to Poor in response to rain and wind storm conditions.”
- C** “Today’s nowcast prediction for water quality at **Edgewater is Poor**. Today’s nowcast prediction for **Huntington is Good**. A nowcast prediction of Poor means that bacteria levels are likely to be high. Swimming is not advised, especially for children, the elderly and those in ill health. Full body water contact may result in illness. Be aware that water quality can quickly change from Good to Poor in response to rain and wind storm conditions.”
- D** “Today’s nowcast prediction for water quality at **Edgewater is Poor**. Today’s nowcast prediction for **Huntington is Poor**. A nowcast prediction of Poor means that bacteria levels are likely to be high. Swimming is not advised, especially for children, the elderly and those in ill health. Full body water contact may result in illness.”
- E** “Today’s nowcast prediction for water quality at **Edgewater is Good**. There is **no prediction available for Huntington Beach**. Be aware that water quality can quickly change from Good to Poor in response to rain and wind storm conditions.”
- F** “Due to technical problems, we are unable to provide nowcast services today.”
- G** This option would allow for the creation (recording) of a special message for unusual circumstances.



Attachment C

HI 98129

Combo pH/EC/TDS/Temperature Tester with Low Range EC



Description

The HI 98129 Combo waterproof tester offer high accuracy pH, EC/TDS and temperature measurements in a single tester! No more switching between meters for your routine measurements. The waterproof Combo (it even floats) has a large easy-to-read, dual-level LCD and automatic shut-off. pH and EC/TDS readings are automatically compensated for the effects of temperature (ATC). This technologically advanced tester has a replaceable pH electrode cartridge with an extendable cloth junction as well as an EC/TDS graphite electrode that resists contamination by salts and other substances. This gives these meters a greatly extended life. Your tester no longer needs to be thrown away when the pH sensor is exhausted.

The EC/TDS conversion factor is user selectable as is the temperature compensation coefficient (β). Fast, efficient, accurate and portable, the Combo pH, EC/TDS and temperature tester brings you all the features you've asked for and more!

Specifications

Range	pH	0.00 to 14.00 pH
Range	EC	0 to 3999 $\mu\text{S}/\text{cm}$
Range	TDS	0 to 2000 ppm
Range	Temperature	0.0 to 60.0°C / 32 to 140.0°F
Resolution	pH	0.01 pH
Resolution	EC	1 $\mu\text{S}/\text{cm}$
Resolution	TDS	1 ppm
Resolution	Temperature	0.1°C / 0.1°F
Accuracy	pH	± 0.05 pH
Accuracy	EC/TDS	$\pm 2\%$ F.S.
Accuracy	Temperature	$\pm 0.5^\circ\text{C} / \pm 1^\circ\text{F}$
Temperature Compensation	pH: automatic; EC/TDS: automatic with β adjustable from 0.0 to 2.4% / °C	
Calibration	pH	automatic, 1 or 2 points with 2 sets of memorized buffers (pH 4.01 / 7.01 / 10.01 or 4.01 / 6.86 / 9.18)
Calibration	EC/TDS	automatic, 1 point
TDS Conversion Factor	adjustable from 0.45 to 1.00	
pH Electrode	HI 73127 (replaceable; included)	
Environment	0 to 50°C (32 to 122°F); RH max 100%	
Battery Type / Life	4 x 1.5V / approx. 100 hours of continuous use; auto-off after 8 minutes of non-use	
Dimensions	163 x 40 x 26 mm (6.4 x 1.6 x 1.0")	
Weight	100 g (3.5 oz.)	



YSI Environmental



The 556 has multiple language capabilities and graphing!

Pure
Data for a
Healthy
Planet.®

A rugged, cost-effective multiparameter handheld system designed for the field!

YSI 556 Multiparameter System

Versatile, multiparameter handheld instrument

Rugged and reliable, the YSI 556 MPS (Multiprobe System) combines the versatility of an easy-to-use, easy-to-read handheld unit with all the functionality of a multiparameter system.

- Simultaneously measures dissolved oxygen, pH, conductivity, temperature, and ORP
- Field-replaceable electrodes
- Compatible with EcoWatch® for Windows® data analysis software
- Stores over 49,000 data sets, time and date stamped, interval or manual logging
- Three-year warranty on the instrument; one-year on the probes
- GLP assisting, records calibration data in memory
- Available with 4, 10, and 20-m cable lengths
- IP-67, impact-resistant, waterproof case
- Easy-to-use, screw-on cap DO membranes
- RS-232 interface for PC connection

Options to Fit Your Applications!

- **Battery Options** – The unit is powered by alkaline batteries or an optional rechargeable battery pack with quick-charge feature.
- **Optional Barometer** – Internal barometer can be user-calibrated and displayed along with other data, used in dissolved oxygen calibrations, and logged to memory for tracking changes in barometric pressure. (Choose 556-02)
- **Optional Flow Cell** – The 5083 flow cell can be used for ground water applications or anytime water is pumped for sampling.
- **Carrying Case** – The instrument comes standard with YSI 5061, a soft-sided carrying case with enough space for the 556, a 20-meter cable, and calibrating supplies. An optional 5080 hard-sided carrying case is also available.
- **Confidence Solution®** – Quality assurance ensured. Quickly check conductivity, pH, and ORP readings with one solution.

www.YSI.com/556

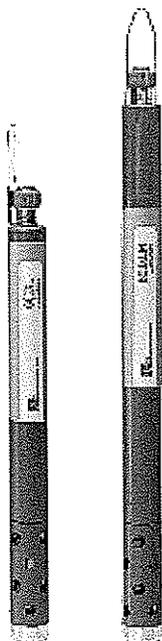


YSI 600XL and 600XLM Sondes

Measure multiple parameters simultaneously

The YSI 600XL and YSI 600XLM compact sondes measure eleven parameters simultaneously:

Temperature	TDS
Conductivity	pH
Specific Conductance	ORP
Salinity	Depth or Level
Resistivity	Rapid Pulse™ DO (% and mg/L)



The YSI 600XL and 600XLM

Connect with Data Collection Platforms

Either sonde can easily connect to the YSI 6200 DAS (Data Acquisition System), YSI EcoNet™ or your own data collection platform, via SDI-12 for remote and real-time data acquisition applications.

Economical Logging System

The YSI 600XLM is an economical logging system for long-term, *in situ* monitoring and profiling. It will log all parameters at programmable intervals and store 150,000 readings. At one-hour intervals, the instrument will log data for about 75 days utilizing its own power source. The 600XL can also be utilized in the same manner with user-supplied external power.

- Either sonde fits down 2-inch wells
- Horizontal measurements in very shallow waters
- Stirring-independent Rapid Pulse® dissolved oxygen sensor
- Field-replaceable sensors
- Easily connects to data collection platforms
- Available with detachable cables to measure depth up to 200 feet
- Compatible with YSI 650 Multiparameter Display System
- Use with the YSI 5083 flow cell for groundwater applications

Pure
Data for a
Healthy
Planet.®

Economical, multiparameter
sampling or logging in a
compact sonde

Sensor performance verified*

The 6820 VZ and 6920 VZ sondes use sensor technology that was verified through the US EPA's Environmental Technology Verification Program (ETV). For information on which sensors were performance-verified, turn this sheet over and look for the ETV logo.



www.ysi.com

ATTACHMENT D

2010 Beach Sampling Schedule												
		Edgewater Beach			Villa Angela Beach			Euclid Beach			Euclid Creek	
	Date	EDGE	EDGW	EDGC	VABE	VABW	VABC	EUBE	EUBW	EUBC	RM 0.14	RM 0.55
Monday	5/3/2010	X	X	X	X	X	X	X	X	X		
Tuesday	5/4/2010	X	X	X	X	X	X	X	X	X		
Wednesday	5/5/2010	X	X	X	X	X	X	X	X	X		
Thursday	5/6/2010	X	X	X	X	X	X	X	X	X		
Friday	5/7/2010											
Saturday	5/8/2010											
Sunday	5/9/2010											
Monday	5/10/2010	X	X	X	X	X	X	X	X	X		
Tuesday	5/11/2010	X	X	X	X	X	X	X	X	X		
Wednesday	5/12/2010	X	X	X	X	X	X	X	X	X		
Thursday	5/13/2010	X	X	X	X	X	X	X	X	X		
Friday	5/14/2010											
Saturday	5/15/2010											
Sunday	5/16/2010											
Monday	5/17/2010	X	X	X	X	X	X	X	X	X		
Tuesday	5/18/2010	X	X	X	X	X	X	X	X	X		
Wednesday	5/19/2010	X	X	X	X	X	X	X	X	X		
Thursday	5/20/2010	X	X	X	X	X	X	X	X	X		
Friday	5/21/2010	X	X	X	X	X	X	X	X	X		
Saturday	5/22/2010	X	X	X	X	X	X	X	X	X		
Sunday	5/23/2010	X	X	X	X	X	X	X	X	X		
Monday	5/24/2010	X	X	X	X	X	X	X	X	X		
Tuesday	5/25/2010	X	X	X	X	X	X	X	X	X		
Wednesday	5/26/2010	X	X	X	X	X	X	X	X	X		
Thursday	5/27/2010	X	X	X	X	X	X	X	X	X		
Friday	5/28/2010	X	X	X	X	X	X	X	X	X		
Saturday	5/29/2010	X	X	X	X	X	X	X	X	X		
Sunday	5/30/2010	X	X	X	X	X	X	X	X	X		
Monday	5/31/2010	X	X	X	X	X	X	X	X	X		
Tuesday	6/1/2010	X	X	X	X	X	X	X	X	X	X	X
Wednesday	6/2/2010	X	X	X	X	X	X	X	X	X	X	X
Thursday	6/3/2010	X	X	X	X	X	X	X	X	X	X	X
Friday	6/4/2010	X	X	X	X	X	X	X	X	X	X	X
Saturday	6/5/2010	X	X	X	X	X	X	X	X	X		
Sunday	6/6/2010	X	X	X	X	X	X	X	X	X		
Monday	6/7/2010	X	X	X	X	X	X	X	X	X	X	X
Tuesday	6/8/2010	X	X	X	X	X	X	X	X	X	X	X
Wednesday	6/9/2010	X	X	X	X	X	X	X	X	X	X	X
Thursday	6/10/2010	X	X	X	X	X	X	X	X	X	X	X
Friday	6/11/2010	X	X	X	X	X	X	X	X	X	X	X
Saturday	6/12/2010	X	X	X	X	X	X	X	X	X		
Sunday	6/13/2010	X	X	X	X	X	X	X	X	X		

2010 Beach Sampling Schedule

		Edgewater Beach			Villa Angela Beach			Euclid Beach			Euclid Creek	
	Date	EDGE	EDGW	EDGC	VABE	VABW	VABC	EUBE	EUBW	EUBC	RM 0.14	RM 0.55
Monday	6/14/2010	X	X	X	X	X	X	X	X	X	X	X
Tuesday	6/15/2010	X	X	X	X	X	X	X	X	X	X	X
Wednesday	6/16/2010	X	X	X	X	X	X	X	X	X	X	X
Thursday	6/17/2010	X	X	X	X	X	X	X	X	X	X	X
Friday	6/18/2010	X	X	X	X	X	X	X	X	X	X	X
Saturday	6/19/2010	X	X	X	X	X	X	X	X	X		
Sunday	6/20/2010	X	X	X	X	X	X	X	X	X		
Monday	6/21/2010	X	X	X	X	X	X	X	X	X	X	X
Tuesday	6/22/2010	X	X	X	X	X	X	X	X	X	X	X
Wednesday	6/23/2010	X	X	X	X	X	X	X	X	X	X	X
Thursday	6/24/2010	X	X	X	X	X	X	X	X	X	X	X
Friday	6/25/2010	X	X	X	X	X	X	X	X	X	X	X
Saturday	6/26/2010	X	X	X	X	X	X	X	X	X		
Sunday	6/27/2010	X	X	X	X	X	X	X	X	X		
Monday	6/28/2010	X	X	X	X	X	X	X	X	X	X	X
Tuesday	6/29/2010	X	X	X	X	X	X	X	X	X	X	X
Wednesday	6/30/2010	X	X	X	X	X	X	X	X	X	X	X
Thursday	7/1/2010	X	X	X	X	X	X	X	X	X	X	X
Friday	7/2/2010	X	X	X	X	X	X	X	X	X	X	X
Saturday	7/3/2010	X	X	X	X	X	X	X	X	X		
Sunday	7/4/2010	X	X	X	X	X	X	X	X	X		
Monday	7/5/2010	X	X	X	X	X	X	X	X	X	X	X
Tuesday	7/6/2010	X	X	X	X	X	X	X	X	X	X	X
Wednesday	7/7/2010	X	X	X	X	X	X	X	X	X	X	X
Thursday	7/8/2010	X	X	X	X	X	X	X	X	X	X	X
Friday	7/9/2010	X	X	X	X	X	X	X	X	X	X	X
Saturday	7/10/2010	X	X	X	X	X	X	X	X	X		
Sunday	7/11/2010	X	X	X	X	X	X	X	X	X		
Monday	7/12/2010	X	X	X	X	X	X	X	X	X	X	X
Tuesday	7/13/2010	X	X	X	X	X	X	X	X	X	X	X
Wednesday	7/14/2010	X	X	X	X	X	X	X	X	X	X	X
Thursday	7/15/2010	X	X	X	X	X	X	X	X	X	X	X
Friday	7/16/2010	X	X	X	X	X	X	X	X	X	X	X
Saturday	7/17/2010	X	X	X	X	X	X	X	X	X		
Sunday	7/18/2010	X	X	X	X	X	X	X	X	X		
Monday	7/19/2010	X	X	X	X	X	X	X	X	X	X	X
Tuesday	7/20/2010	X	X	X	X	X	X	X	X	X	X	X
Wednesday	7/21/2010	X	X	X	X	X	X	X	X	X	X	X
Thursday	7/22/2010	X	X	X	X	X	X	X	X	X	X	X
Friday	7/23/2010	X	X	X	X	X	X	X	X	X	X	X
Saturday	7/24/2010	X	X	X	X	X	X	X	X	X		
Sunday	7/25/2010	X	X	X	X	X	X	X	X	X		
Monday	7/26/2010	X	X	X	X	X	X	X	X	X	X	X
Tuesday	7/27/2010	X	X	X	X	X	X	X	X	X	X	X
Wednesday	7/28/2010	X	X	X	X	X	X	X	X	X	X	X

2010 Beach Sampling Schedule

		Edgewater Beach			Villa Angela Beach			Euclid Beach			Euclid Creek	
	Date	EDGE	EDGW	EDGC	VABE	VABW	VABC	EUBE	EUBW	EUBC	RM 0.14	RM 0.55
Thursday	7/29/2010	X	X	X	X	X	X	X	X	X	X	X
Friday	7/30/2010	X	X	X	X	X	X	X	X	X	X	X
Saturday	7/31/2010	X	X	X	X	X	X	X	X	X		
Sunday	8/1/2010	X	X	X	X	X	X	X	X	X		
Monday	8/2/2010	X	X	X	X	X	X	X	X	X	X	X
Tuesday	8/3/2010	X	X	X	X	X	X	X	X	X	X	X
Wednesday	8/4/2010	X	X	X	X	X	X	X	X	X	X	X
Thursday	8/5/2010	X	X	X	X	X	X	X	X	X	X	X
Friday	8/6/2010	X	X	X	X	X	X	X	X	X	X	X
Saturday	8/7/2010	X	X	X	X	X	X	X	X	X		
Sunday	8/8/2010	X	X	X	X	X	X	X	X	X		
Monday	8/9/2010	X	X	X	X	X	X	X	X	X	X	X
Tuesday	8/10/2010	X	X	X	X	X	X	X	X	X	X	X
Wednesday	8/11/2010	X	X	X	X	X	X	X	X	X	X	X
Thursday	8/12/2010	X	X	X	X	X	X	X	X	X	X	X
Friday	8/13/2010	X	X	X	X	X	X	X	X	X	X	X
Saturday	8/14/2010	X	X	X	X	X	X	X	X	X		
Sunday	8/15/2010	X	X	X	X	X	X	X	X	X		
Monday	8/16/2010	X	X	X	X	X	X	X	X	X	X	X
Tuesday	8/17/2010	X	X	X	X	X	X	X	X	X	X	X
Wednesday	8/18/2010	X	X	X	X	X	X	X	X	X	X	X
Thursday	8/19/2010	X	X	X	X	X	X	X	X	X	X	X
Friday	8/20/2010	X	X	X	X	X	X	X	X	X	X	X
Saturday	8/21/2010	X	X	X	X	X	X	X	X	X		
Sunday	8/22/2010	X	X	X	X	X	X	X	X	X		
Monday	8/23/2010	X	X	X	X	X	X	X	X	X	X	X
Tuesday	8/24/2010	X	X	X	X	X	X	X	X	X	X	X
Wednesday	8/25/2010	X	X	X	X	X	X	X	X	X	X	X
Thursday	8/26/2010	X	X	X	X	X	X	X	X	X	X	X
Friday	8/27/2010	X	X	X	X	X	X	X	X	X	X	X
Saturday	8/28/2010	X	X	X	X	X	X	X	X	X		
Sunday	8/29/2010	X	X	X	X	X	X	X	X	X		
Monday	8/30/2010	X	X	X	X	X	X	X	X	X	X	X
Tuesday	8/31/2010	X	X	X	X	X	X	X	X	X	X	X
Wednesday	9/1/2010	X	X	X	X	X	X	X	X	X	X	X
Thursday	9/2/2010	X	X	X	X	X	X	X	X	X	X	X
Friday	9/3/2010	X	X	X	X	X	X	X	X	X	X	X
Saturday	9/4/2010	X	X	X	X	X	X	X	X	X		
Sunday	9/5/2010	X	X	X	X	X	X	X	X	X		
Monday	9/6/2010	X	X	X	X	X	X	X	X	X	X	X
Tuesday	9/7/2010	X	X	X	X	X	X	X	X	X	X	X
Wednesday	9/8/2010	X	X	X	X	X	X	X	X	X	X	X
Thursday	9/9/2010	X	X	X	X	X	X	X	X	X	X	X
Friday	9/10/2010	X	X	X	X	X	X	X	X	X	X	X
Saturday	9/11/2010											

2010 Beach Sampling Schedule

		Edgewater Beach			Villa Angela Beach			Euclid Beach			Euclid Creek	
	Date	EDGE	EDGW	EDGC	VABE	VABW	VABC	EUBE	EUBW	EUBC	RM 0.14	RM 0.55
Sunday	9/12/2010											
Monday	9/13/2010	X	X	X	X	X	X	X	X	X		
Tuesday	9/14/2010	X	X	X	X	X	X	X	X	X		
Wednesday	9/15/2010	X	X	X	X	X	X	X	X	X		
Thursday	9/16/2010	X	X	X	X	X	X	X	X	X		
Friday	9/17/2010											
Saturday	9/18/2010											
Sunday	9/19/2010											
Monday	9/20/2010	X	X	X	X	X	X	X	X	X		
Tuesday	9/21/2010	X	X	X	X	X	X	X	X	X		
Wednesday	9/22/2010	X	X	X	X	X	X	X	X	X		
Thursday	9/23/2010	X	X	X	X	X	X	X	X	X		
Friday	9/24/2010											
Saturday	9/25/2010											
Sunday	9/26/2010											
Monday	9/27/2010	X	X	X	X	X	X	X	X	X		
Tuesday	9/28/2010	X	X	X	X	X	X	X	X	X		
Wednesday	9/29/2010	X	X	X	X	X	X	X	X	X		
Thursday	9/30/2010	X	X	X	X	X	X	X	X	X		
Friday	10/1/2010											
Saturday	10/2/2010											
Sunday	10/3/2010											
Monday	10/4/2010	X	X	X	X	X	X	X	X	X		
Tuesday	10/5/2010	X	X	X	X	X	X	X	X	X		
Wednesday	10/6/2010	X	X	X	X	X	X	X	X	X		
Thursday	10/7/2010	X	X	X	X	X	X	X	X	X		
Friday	10/8/2010											
Saturday	10/9/2010											
Sunday	10/10/2010											
Monday	10/11/2010	X	X	X	X	X	X	X	X	X		
Tuesday	10/12/2010	X	X	X	X	X	X	X	X	X		
Wednesday	10/13/2010	X	X	X	X	X	X	X	X	X		
Thursday	10/14/2010	X	X	X	X	X	X	X	X	X		
Friday	10/15/2010											
Saturday	10/16/2010											
Sunday	10/17/2010											
Monday	10/18/2010	X	X	X	X	X	X	X	X	X		
Tuesday	10/19/2010	X	X	X	X	X	X	X	X	X		
Wednesday	10/20/2010	X	X	X	X	X	X	X	X	X		
Thursday	10/21/2010	X	X	X	X	X	X	X	X	X		
Friday	10/22/2010											
Saturday	10/23/2010											
Sunday	10/24/2010											
Monday	10/25/2010	X	X	X	X	X	X	X	X	X		
Tuesday	10/26/2010	X	X	X	X	X	X	X	X	X		

2010 Beach Sampling Schedule												
		Edgewater Beach			Villa Angela Beach			Euclid Beach			Euclid Creek	
	Date	EDGE	EDGW	EDGC	VABE	VABW	VABC	EUBE	EUBW	EUBC	RM 0.14	RM 0.55
Wednesday	10/27/2010	X	X	X	X	X	X	X	X	X		
Thursday	10/28/2010	X	X	X	X	X	X	X	X	X		
Friday	10/29/2010											
Saturday	10/30/2010											
Sunday	10/31/2010											

ATTACHMENT E

External Report



Northeast Ohio Regional
Sewer District

Protecting Your Health and Environment

Daily Beach Data

<i>Sample ID</i>	<i>Collection Date</i>	<i>Location</i>	<i>E. coli</i> <i>cfu/100ml</i>	<i>Turbidity</i> <i>NTU</i>
VABC0907130001	7/13/2009 9:20:00 AM	Vila Angela Beach	620	4.07
EUBC0907130001	7/13/2009 9:36:00 AM	Euclid Beach	880	5.37
EDGC0907130001	7/13/2009 9:06:00 AM	Edgewater Beach	110	11

ATTACHMENT E

Internal Report



Internal Daily Beach Data Report

Location	Time	E. coli cfu/100ml	pH S.U.	Temp °C	Turbidity NTU	Wave Ht. Feet	Prediction E. Coli cfu/100ml	Prob. E. Coli cfu/100ml	Water Quality
----------	------	----------------------	------------	------------	------------------	------------------	---------------------------------	----------------------------	------------------

Collection Date: 5/5/2009

Edgewater Beach

Edgewater Beach West	9:13 AM	19				15.3		
Edgewater Beach East	9:02 AM	79				15		
Edgewater	7:58 AM	50	6.2	14.4			0	

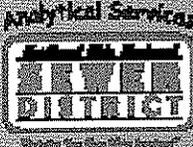
Euclid Beach

Euclid Beach East	10:10 AM	19				12.3		
Euclid Beach West	10:15 AM	18				8.77		
Euclid Beach	8:04 AM	17	7.3	14.4			0	

Villa Angela Beach

Villa Angela-West	9:55 AM	24				8.24		
Villa Angela-East	9:50 AM	14				8.79		
Villa Angela	8:03 AM	19	6.9	13.8			0	

ATTACHMENT F

	<h2 style="margin: 0;">Beach Sampling Training</h2> <p style="margin: 0;">Form 4018-00</p>
---	--

Analyst Signature: _____

Supervisor: _____

	Yes	No	Initials	Date
Method Review				
1. Review "Beach Sampling" SOP				
2. Review "Vehicle and Mobile Radio Operation" SOP				
3. Review "Operation of the Hanna pH EC/TDS Meter" SOP				
4. Review "Image and File Upload for Beach Project" SOP				
Safety Equipment				
1. Life Jacket or Inflatable safety vest				
2. Chest Waders				
3. Gloves				
4. Fling buoy with 50ft of nylon rope				
5. Cell phone				
6. Sampling pole for inclement weather sampling				
Video				
1. Wader Safety				
2. Sampling Techniques for Microbiology				
Equipment				
1. Can calibrate and use the Hanna pH EC/TDS Meter				
2. Can use digital camera				
3. Can upload images from camera to computer				
4. Can scan beach observation sheets from copier to w/scans				
5. Can use GPS				
6. Can use wind anemometer				
7. Uses wave height stick to measure wave height				
Sampling				
1. Site visit				
2. Uses proper Sample Bottles and Technique to Sample				
3. Fills out Sample Tags appropriately				
4. Can fill out Chain of Custody and Beach Observation Sheets				
5. Uses cooler with ice				
6. Understand how to composite East and West Samples				
LabLynx Skills				
1. Can log in new samples				
2. Can assign applications and add tests to samples				
3. Can enter field data into LabLynx				

Comments:

ATTACHMENT G

	<h2 style="margin: 0;">Beach Sampling Audit</h2> <p style="margin: 0;">Form 3180-00</p>
---	---

Beach Audited: _____ ODC Auditing: _____

Safety Equipment with Field Crew	Yes	No	Initials	Date
1. Life Jacket or inflatable safety vest				
2. Chest Waders				
3. Gloves				
4. Ring buoy with 50ft of nylon rope				
5. Raincoats				
6. Cell phone				
7. Sampling pole for inclement weather sampling				
Sampling Equipment Checklist	Yes	No	Initials	Date
1. Chain of Custody				
2. Field Observation Sheet				
3. Sterile Bacti Bottles				
4. Sample Tags				
5. Bottles for Turbidity Samples				
6. pH/Conductivity/Temp MEter				
7. Wind Anemometer				
8. Wave Height Stick				
9. Camera				
10. GPS				
11. Cooler				
12. Ice				
13. Ziploc Bags				
14. Calculator				
15. Laptop - Edgewater Crew Only				
16. Keys for office for signs				
Method Review	Yes	No	Initials	Date
1. Samplers are using the GPS to locate sampling sites				
2. Samplers Attained Samples at Appropriate Sites				
East				
West				
Creek				
3. Sampled at appropriate depth of 3 ft.using wave height stick to verify.				
4. Samples exhibited proper sampling technique				
a. Uses sterile bottles				
b. Bottle inverted before it enters the water.				
c. Bottle is plunged 6-12 inches below the surface of the water				
d. Bottle rotated with the opening facing the surface.				
e. Headspace left				



Beach Sampling Audit

Form 3180-00

Method Review Continued	Yes	No	Initials	Date
f. Bottle capped securely				
g. Second bottle collected for Turbidity analysis				
h. Fills out Sample Tags appropriately				
i. Can fill out Chain of Custody and Beach Observation Sheets				
j. Uses cooler with ice				
k. Understand how to composite East and West Samples				
Equipment Skills	Yes	No	Initials	Date
1. Can calibrate and use the Hanna pH EC/TDS Meter				
2. Can use digital camera				
3. Can upload images from camera to computer				
4. Can scan beach observation sheets from copier to w/scans				
5. Can use GPS				
6. Can use wind anemometer to measure wind speed				
7. Uses wave height stick to measure wave height				
LabLynx Skills	Yes	No	Initials	Date
1. Can log in new samples				
2. Can assign applications and add tests to samples				
3. Can enter field data into LabLynx				
Edgewater NOWCAST Model	Yes	No	Initials	Date
1. Can access email for 24 and 48 hour rainfall.				
2. Obtains Lake level and Hopkins Rainfall from internet				
3. Can plug in appropriate parameters into the model.				
4. Can post to the NOWCAST website.				
5. Sends email to distribution of GOOD or POOR prediction.				
6. Updates NEORS Internet page to reflect forecast.				
7. Changes signs at beach to GOOD or POOR as appropriate				

Comments:

Attachment H



State of Ohio Environmental Protection Agency

OHIO E.P.A.

STREET ADDRESS:

Luzius Government Center
50 W. Town St., Suite 703
Columbus, Ohio 43215

TELE: (614) 944-3022 FAX: (614) 741-0195
WWW.OPL.2000.03.05

MAILING ADDRESS:

AUG 22 2008
P.O. Box 1049
COLUMBUS OH 43216-1049

Effective Date: August 22, 2008
Expiration Date: August 21, 2010

John W. Rhoades
Northeast Ohio Regional Sewer District
22370 Blossom Drive
Rocky River, Ohio 44116

CERTIFIED MAIL
I certify this to be a true and accurate copy of the
official documents as filed in the records of the Ohio
Environmental Protection Agency.

By: [Signature] Date: 8/22/08

Re: Qualified Data Collector Renewal, Surface Water Volunteer Monitoring Program

Dear John:

The Division of Surface Water Volunteer Monitoring (Credible Data) Program has reviewed your Qualified Data Collector (QDC) renewal application. Pursuant to Ohio Revised Code (ORC) 6111.53 and Ohio Administrative Code (OAC) 3745-4-03, you are approved as a QDC for the following level and specialty:

QDC Level: 3
QDC Specialty: Chemical Water Quality Assessment
QDC number: 008

Please continue to use your QDC number on all correspondence, study plans, etc. submitted to Ohio EPA.

As noted at the top of this letter, this status is effective as of the date of this letter and expires two years from that date.

At that time, another renewal application must be submitted in accordance with OAC 3745-4-03(C). As rule, renewal of status is contingent upon active participation in the Volunteer Monitoring Program at the designated level and specialty. Lack of such participation will prevent you from renewing your status, but you may re-apply for initial QDC status.

As a reminder, your status is contingent upon the absence of any trespassing violation (within the previous five years) by you or any person sampling under your supervision. Always obtain land owner permission prior to sampling.

Additionally, collection (and retention) of aquatic biological samples (this includes fish, macroinvertebrates, mollusks, and shells) requires a collector's permit from the Ohio Department of Natural Resources/Division of Wildlife. Obtain this permit prior to collection of any biological samples.

Ted Strickland, Governor
Les Fisher, Lieutenant Governor
Chris Kuntz, Director

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of seventy dollars (\$70.00) which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal must be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Commission at the following address: 300 South Fourth Street, Room 222, Columbus, Ohio 43215.

Sincerely,



Chris Korleski
Director



State of Ohio Environmental Protection Agency

OHIO E.P.A.

STREET ADDRESS:

Lansing Government Center
50 W. Town St., Suite 700
Columbus, OH 43215

TEL: (614) 644-3233 FAX: (614) 644-3164
www.epa.state.oh.us

AUG 15 2008

MAILING ADDRESS:

P.O. Box 1049
Columbus, OH 43216-1049

REGISTERED MAIL

Effective Date: August 15, 2008
Expiration Date: August 14, 2010

I certify this to be a true and accurate copy of the official documents as filed in the records of the Ohio Environmental Protection Agency. **CERTIFIED MAIL**

Catherine M. Zamborsky
Northeast Ohio Regional Sewer District
1749 Royalwood Road
Broadview Heights, Ohio 44147

By [Signature] Date: 8-15-08

Re: Qualified Data Collector Renewal, Surface Water Volunteer Monitoring Program

Dear Catherine:

The Division of Surface Water Volunteer Monitoring (Credible Data) Program has reviewed your Qualified Data Collector (QDC) renewal application. Pursuant to Ohio Revised Code (ORC) 6111.53 and Ohio Administrative Code (OAC) 3745-4-03, you are approved as a QDC for the following level and specialty:

QDC Level: 3
QDC Specialty: Chemical Water Quality Assessment
QDC number: 009

Please continue to use your QDC number on all correspondence, study plans, etc. submitted to Ohio EPA.

As noted at the top of this letter, this status is effective as of the date of this letter and expires two years from that date.

At that time, another renewal application must be submitted in accordance with OAC 3745-4-03(C). As rule, renewal of status is contingent upon active participation in the Volunteer Monitoring Program at the designated level and specialty. Lack of such participation will prevent you from renewing your status, but you may re-apply for initial QDC status.

As a reminder, your status is contingent upon the absence of any trespassing violation (within the previous five years) by you or any person sampling under your supervision. Always obtain land owner permission prior to sampling.

Additionally, collection (and retention) of aquatic biological samples (this includes fish, macroinvertebrates, mollusks, and shells) requires a collector's permit from the Ohio Department of Natural Resources/Division of Wildlife. Obtain this permit prior to collection of any biological samples.

Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Kuntze, Director

Qualified Data Collector Approval
Page Two

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of seventy dollars (\$70.00) which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal must be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Commission at the following address: 309 South Fourth Street, Room 222, Columbus, Ohio 43215.

Sincerely,



Chris Korleski
Director



State of Ohio Environmental Protection Agency

OHIO E.P.A.

DIRECT ADDRESS:

Legation Enforcement Center
50 W. Town St., Suite 702
Columbus, Ohio 43215

TEL: 614/845-3300 FAX: 614/672-3114
www.ohioepa.gov

MAILING ADDRESS:

P.O. Box 1648
118 East Broad St., Columbus, OH 43215-0048

Effective Date: August 15, 2008
Expiration Date: August 14, 2010

I certify this to be a true and accurate **REGISTERED MAIL**
official document as filed in the records of the Ohio
Environmental Protection Agency.

Sech Holthem
Northeast Ohio Regional Sewer District
7815 Dartworth Drive
Parma, Ohio 44129

By: Dan Lessorby Date: 8-15-08

Re: Qualified Data Collector Renewal, Surface Water Volunteer Monitoring Program

Dear Seth:

The Division of Surface Water Volunteer Monitoring (Credible Data) Program has reviewed your Qualified Data Collector (QDC) renewal application. Pursuant to Ohio Revised Code (ORC) 6111.53 and Ohio Administrative Code (OAC) 3745-4-03, you are approved as a QDC for the following level and specialty:

QDC Level: 3
QDC Specialty: Chemical Water Quality Assessment
QDC number: 010

Please continue to use your QDC number on all correspondence, study plans, etc. submitted to Ohio EPA.

As noted at the top of this letter, this status is effective as of the date of this letter and expires two years from that date.

At that time, another renewal application must be submitted in accordance with OAC 3745-4-03(C). As rule, renewal of status is contingent upon active participation in the Volunteer Monitoring Program at the designated level and specialty. Lack of such participation will prevent you from renewing your status, but you may re-apply for initial QDC status.

As a reminder, your status is contingent upon the absence of any trespassing violation (within the previous five years) by you or any person sampling under your supervision. Always obtain land owner permission prior to sampling.

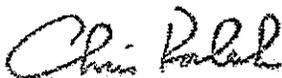
Additionally, collection (and retention) of aquatic biological samples (this includes fish, macroinvertebrates, mollusks, and shells) requires a collector's permit from the Ohio Department of Natural Resources/Division of Wildlife. Obtain this permit prior to collection of any biological samples.

Ed Strickland, Governor
Les Fisher, Lieutenant Governor
Chia Kerlosi, Director

Qualified Data Collector Approval
Page Two

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of seventy dollars (\$70.00) which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal must be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Commission at the following address: 309 South Fourth Street, Room 222, Columbus, Ohio 43215.

Sincerely,



Chris Korleski
Director



State of Ohio Environmental Protection Agency Ohio E.P.A.

STREET ADDRESS:

Lutesius Government Center
50 W. Town St., Suite 700
Columbus, Ohio 43215

TELE: (614) 844-8123 FAX: (614) 844-9154
www.epa.ohio.gov

MAILING ADDRESS:

P.O. Box 1049
Columbus, OH 43216-1049

AUG 15 2008

REGISTERED MAIL

Effective Date: August 15, 2008
Expiration Date: August 14, 2010

I certify this to be a true and accurate official document as filed in the records of the Ohio Environmental Protection Agency.

Kathryn Crestani
Northeast Ohio Regional Sewer District
4075 West 215 Street Fairview
Park, Ohio 44126

By: [Signature] Date: 8-15-08

Re: Qualified Data Collector Renewal, Surface Water Volunteer Monitoring Program

Dear Kathryn:

The Division of Surface Water Volunteer Monitoring (Credible Data) Program has reviewed your Qualified Data Collector (QDC) renewal application. Pursuant to Ohio Revised Code (ORC) 6111.53 and Ohio Administrative Code (OAC) 3745-4-03, you are approved as a QDC for the following level and specialty:

QDC Level: 3
QDC Specialty: Chemical Water Quality Assessment
QDC number: 011

Please continue to use your QDC number on all correspondence, study plans, etc. submitted to Ohio EPA.

As noted at the top of this letter, this status is effective as of the date of this letter and expires two years from that date.

At that time, another renewal application must be submitted in accordance with OAC 3745-4-03(C). As rule, renewal of status is contingent upon active participation in the Volunteer Monitoring Program at the designated level and specialty. Lack of such participation will prevent you from renewing your status, but you may re-apply for initial QDC status.

As a reminder, your status is contingent upon the absence of any trespassing violation (within the previous five years) by you or any person sampling under your supervision. Always obtain land owner permission prior to sampling.

Additionally, collection (and retention) of aquatic biological samples (this includes fish, macroinvertebrates, mollusks, and shells) requires a collector's permit from the Ohio Department of Natural Resources/Division of Wildlife. Obtain this permit prior to collection of any biological samples.

Ted Stickerland, Governor
Lee Fisher, Lieutenant Governor
Chris Koleski, Director

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of seventy dollars (\$70.00) which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal must be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Commission at the following address: 309 South Fourth Street, Room 222, Columbus, Ohio 43215.

Sincerely,



Chris Korleski
Director



State of Ohio Environmental Protection Agency

OHIO E.P.A.

STREET ADDRESS:

Lazarus Government Center
50 W. Town St. Suite 700
Columbus, Ohio 43215

TEL: (614) 544-2025 FAX: (614) 659-1254
www.epa.state.oh.us

MAILING ADDRESS:

ROOM 200

P.O. Box 1049
Columbus, OH 43215-0049

INTERNET: www.epa.state.oh.us

Effective Date: August 15, 2008
Expiration Date: August 14, 2010

I certify this to be a true and accurate official document as filed in the records of the Ohio Environmental Protection Agency. **CERTIFIED MAIL**

Tom Zahlusty
Northeast Ohio Regional Sewer District
1660 Melody Lane
Medina, Ohio 44356

By: [Signature] Date: 8-15-08

Re: Qualified Data Collector Renewal, Surface Water Volunteer Monitoring Program

Dear Tom:

The Division of Surface Water Volunteer Monitoring (Credible Data) Program has reviewed your Qualified Data Collector (QDC) renewal application. Pursuant to Ohio Revised Code (ORC) 6111.53 and Ohio Administrative Code (OAC) 3745-4-03, you are approved as a QDC for the following level and specialty:

QDC Level: 3
QDC Specialty: Chemical Water Quality Assessment
QDC number: 018

Please continue to use your QDC number on all correspondence, study plans, etc. submitted to Ohio EPA.

As noted at the top of this letter, this status is effective as of the date of this letter and expires two years from that date.

At that time, another renewal application must be submitted in accordance with OAC 3745-4-03(C). As rule, renewal of status is contingent upon active participation in the Volunteer Monitoring Program at the designated level and specialty. Lack of such participation will prevent you from renewing your status, but you may re-apply for initial QDC status.

As a reminder, your status is contingent upon the absence of any trespassing violation (within the previous five years) by you or any person sampling under your supervision. Always obtain land owner permission prior to sampling.

Additionally, collection (and retention) of aquatic biological samples (this includes fish, macroinvertebrates, mollusks, and shells) requires a collector's permit from the Ohio Department of Natural Resources/Division of Wildlife. Obtain this permit prior to collection of any biological samples.

Len Stadeland, Governor
Lee Fisher, Lieutenant Governor
Chris Korosec, Director

Qualified Data Collector Approval
Page Two

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of seventy dollars (\$70.00) which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal must be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Commission at the following address: 309 South Fourth Street, Room 222, Columbus, Ohio 43215.

Sincerely,



Chris Kurleski
Director



State of Ohio Environmental Protection Agency

OHIO E.P.A.

STREET ADDRESS:

Luzasius Government Center
30 W. Town St., Suite 702
Columbus, Ohio 43215

TELEPHONE: 614-467-4474
www.epa.state.oh.us

MAILING ADDRESS:

JAN - 7 2008 P.O. Box 1248
COLUMBUS OHIO 43276-1248

Effective Date: January 7, 2008
Expiration Date: January 6, 2010

I certify this to be a true and accurate copy of the official documents as filed in the records of the Ohio Environmental Protection Agency.

CERTIFIED MAIL

Ronald Maichle
Northeast Ohio Regional Sewer District
7716 Oakhill Road #E
North Royalton, Ohio 44133

By:  Date: 1-7-08

Re: Qualified Data Collector Approval, Surface Water Volunteer Monitoring Program

Dear Ronald:

The Division of Surface Water Volunteer Monitoring (Credible Data) Program has reviewed your Qualified Data Collector (QDC) application. Pursuant to Ohio Revised Code (ORC) 6111.53 and Ohio Administrative Code (OAC) 3745-4-03, you are approved as a QDC for the following level and specialty:

QDC Level: 3
QDC Specialty: Chemical Water Quality Assessment
QDC number: 145

Please use this QDC number on all correspondence, study plans, etc. submitted to Ohio EPA.

As noted at the top of this letter, this status is effective as of the date of this letter and expires two years from that date. You may now submit study plans to the Volunteer Monitoring Program.

A renewal application must be submitted in accordance with OAC 3745-4-03(C). As provided in this rule, renewal of status is contingent upon active participation in the Volunteer Monitoring Program at the designated level and specialty. Lack of such participation will prevent you from renewing your status, but you may re-apply for initial QDC status.

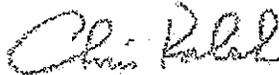
As a reminder, your status is contingent upon the absence of any trespassing violation (within the previous five years) by you or any person sampling under your supervision. Always obtain land owner permission prior to sampling.

Additionally, collection (and retention) of aquatic biological samples (this includes fish, macroinvertebrates, mollusks, and shells) requires a collector's permit from the Ohio Department of Natural Resources/Division of Wildlife. Obtain this permit prior to collection of any biological samples.

Ted Strickland, Governor
Les Fisher, Lieutenant Governor
Chris Kostecki, Director

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of seventy dollars (\$70.00) which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal must be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Commission at the following address: 309 South Fourth Street, Room 222, Columbus, Ohio 43215.

Sincerely,



Chris Korleski
Director



State of Ohio Environmental Protection Agency

STREET ADDRESS

Lezarus Government Center
50 W. Town St., Suite 702
Columbus, Ohio 43215

TEL: (614) 644-3100 FAX: (614) 644-3101
www.ohioepa.gov

MAILING ADDRESS:

P.O. Box 1049
Columbus, OH 43215-1049

Effective Date: January 12, 2009
Expiration Date: January 11, 2014
I certify this to be a true and accurate copy of the official documents as filed in the records of the Ohio Environmental Protection Agency.

CERTIFIED MAIL

Catherine Perciasepe
Northeast Ohio Regional Sewer District
4747 East 49th Street
Cuyahoga Heights, Ohio 44125

By: [Signature] Date: 1-12-09

OHIO EPA
JAN 12 2009
COLUMBUS, OH

Re: Qualified Data Collector Renewal, Surface Water Volunteer Monitoring Program

Dear Catherine:

The Division of Surface Water Volunteer Monitoring (Credible Data) Program has reviewed your Qualified Data Collector (QDC) renewal application. Pursuant to Ohio Revised Code (ORC) 6111.53 and Ohio Administrative Code (OAC) 3745-4-03, you are approved as a QDC for the following level and specialty:

QDC Level: 3
QDC Specialty: Chemical Water Quality Assessment
QDC number: 045

Please continue to use your QDC number on all correspondence, study plans, etc. submitted to Ohio EPA.

As noted at the top of this letter, this status is effective as of the date of this letter and expires two years from that date.

At that time, another renewal application must be submitted in accordance with OAC 3745-4-03(C). As rule, renewal of status is contingent upon active participation in the Volunteer Monitoring Program at the designated level and specialty. Lack of such participation will prevent you from renewing your status, but you may re-apply for initial QDC status.

As a reminder, your status is contingent upon the absence of any trespassing violation (within the previous five years) by you or any person sampling under your supervision. Always obtain land owner permission prior to sampling.

Additionally, collection (and retention) of aquatic biological samples (this includes fish, macroinvertebrates, mollusks, and shells) requires a collector's permit from the Ohio Department of Natural Resources/Division of Wildlife. Obtain this permit prior to collection of any biological samples.

Ted Strickland, Governor
Leo Fisher, Lieutenant Governor
Chris Korleski, Director

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of seventy dollars (\$70.00) which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal must be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Commission at the following address: 309 South Fourth Street, Room 222, Columbus, Ohio 43215.

Sincerely,



Chris Korleski
Director



State of Ohio Environmental Protection Agency

OHIO E.P.A.

STREET ADDRESS:

Lazarus Government Center
55 W. Town St., Suite 702
Columbus, Ohio 43215

TELEPHONE: (614) 466-3301 FAX: (614) 664-3359
www.epa.state.oh.us

MAILING ADDRESS:

APR 28 2009

P.O. Box 1049
Columbus, OH 43216-1049

ENTERED DIRECTOR'S JOURNAL

Effective Date: April 27, 2009
Expiration Date: April 28, 2011

I certify this to be a true and correct copy of the original documents as filed in the State of Ohio Environmental Protection Agency.

Benjamin Tedrick
Northeast Ohio Regional Sewer District
4747 East 49th Street
Cuyahoga Heights, Ohio 44125

Dir. L. Lassiter Date: 4-28-09

Re: Qualified Data Collector Renewal, Surface Water Volunteer Monitoring Program

Dear Benjamin:

The Division of Surface Water Volunteer Monitoring (Credible Data) Program has reviewed your Qualified Data Collector (QDC) renewal application. Pursuant to Ohio Revised Code (ORC) 6111.53 and Ohio Administrative Code (OAC) 3745-4-03, you are approved as a QDC for the following level and specialty:

QDC Level: 3
QDC Specialty: Chemical Water Quality Assessment
QDC number: 048

Please continue to use your QDC number on all correspondence, study plans, etc. submitted to Ohio EPA.

As noted at the top of this letter, this status is effective as of the date of this letter and expires two years from that date.

At that time, another renewal application must be submitted in accordance with OAC 3745-4-03(C). As a rule, renewal of status is contingent upon active participation in the Volunteer Monitoring Program at the designated level and specialty. Lack of such participation will prevent you from renewing your status, but you may re-apply for initial QDC status.

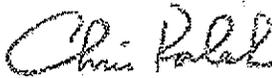
As a reminder, your status is contingent upon the absence of any trespassing violation (within the previous five years) by you or any person sampling under your supervision. Always obtain land owner permission prior to sampling.

Additionally, collection (and retention) of aquatic biological samples (this includes fish, macroinvertebrates, mollusks, and shells) requires a collector's permit from the Ohio Department of Natural Resources/Division of Wildlife. Obtain this permit prior to collection of any biological samples.

Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
China Kerckhoff, Director

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of seventy dollars (\$70.00) which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal must be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Commission at the following address: 309 South Fourth Street, Room 222, Columbus, Ohio 43215.

Sincerely,



Chris Kordeski
Director



State of Ohio Environmental Protection Agency

OHIO E.P.A.

STREET ADDRESS:

Lamarus Government Center
53 W. Town St., Suite 703
Columbus, Ohio 43215

PHONE: (614) 247-2222 FAX: (614) 247-2224
WWW.OHIOEPA.ORG

MAILING ADDRESS:

MAY 14 2008
P.O. Box 1049
Columbus, OH 43216-1049

OHIO ENVIRONMENTAL JOURNAL

Effective Date: May 14, 2008
Expiration Date: May 13, 2010

I certify this to be a true and correct copy of the official documents as filed in the records of the Ohio Environmental Protection Agency.

CERTIFIED MAIL

Eva Hatvani
Northeast Ohio Regional Sewer District
4747 East 49th Street
Cleveland, Ohio 44125

By:  Date: 5-14-08

Re: Qualified Data Collector Approval, Surface Water Volunteer Monitoring Program

Dear Eva:

The Division of Surface Water Volunteer Monitoring (Credible Data) Program has reviewed your Qualified Data Collector (QDC) application. Pursuant to Ohio Revised Code (ORC) 6111.53 and Ohio Administrative Code (OAC) 3745-4-03, you are approved as a QDC for the following level and specialty:

QDC Level: 3
QDC Specialty: Chemical Water Quality Assessment
QDC number: 180

Please use this QDC number on all correspondence, study plans, etc. submitted to Ohio EPA.

As noted at the top of this letter, this status is effective as of the date of this letter and expires two years from that date. You may now submit study plans to the Volunteer Monitoring Program.

A renewal application must be submitted in accordance with OAC 3745-4-03(C). As provided in this rule, renewal of status is contingent upon active participation in the Volunteer Monitoring Program at the designated level and specialty. Lack of such participation will prevent you from renewing your status, but you may re-apply for initial QDC status.

As a reminder, your status is contingent upon the absence of any trespassing violation (within the previous five years) by you or any person sampling under your supervision. Always obtain land owner permission prior to sampling.

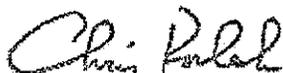
Additionally, collection (and retention) of aquatic biological samples (this includes fish, macroinvertebrates, mollusks, and shells) requires a collector's permit from the Ohio Department of Natural Resources/Division of Wildlife. Obtain this permit prior to collection of any biological samples.

Yed Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Korleski, Director

Qualified Data Collector Approval
Page Two

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of seventy dollars (\$70.00) which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal must be filed with the Director within three (3) days of filing with the Commission. Ohio BPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Commission at the following address: 309 South Fourth Street, Room 222, Columbus, Ohio 43215.

Sincerely,



Chris Korleski
Director



State of Ohio Environmental Protection Agency

STREET ADDRESS:

Lazarus Government Center
50 W. Town St., Suite 700
Columbus, Ohio 43215

17 E. BROADWAY, 2ND FL., 2ND FLOOR
COLUMBUS, OHIO 43215

MAILING ADDRESS:

P.O. Box 1049
Columbus, OH 43218-1049

Effective Date: November 4, 2008
Expiration Date: November 3, 2010

I certify this to be a true and accurate copy of the official documents as filed in the records of the Ohio Environmental Protection Agency.

CERTIFIED MAIL

Francisco Rivera
Northeast Ohio Regional Sewer District
951 Center Road
Eastlake, Ohio 44095

By: Jim Lasiter Date: 11-4-08

Re: Qualified Data Collector Approval, Surface Water Volunteer Monitoring Program

Dear Francisco:

The Division of Surface Water Volunteer Monitoring (Credible Data) Program has reviewed your Qualified Data Collector (QDC) application. Pursuant to Ohio Revised Code (ORC) 6111.53 and Ohio Administrative Code (OAC) 3745-4-03, you are approved as a QDC for the following level and specialty:

QDC Level: 3
QDC Specialty: Chemical Water Quality Assessment
QDC number: 262

Please use this QDC number on all correspondence, study plans, etc. submitted to Ohio EPA.

As noted at the top of this letter, this status is effective as of the date of this letter and expires two years from that date. You may now submit study plans to the Volunteer Monitoring Program.

A renewal application must be submitted in accordance with OAC 3745-4-03(C). As provided in this rule, renewal of status is contingent upon active participation in the Volunteer Monitoring Program at the designated level and specialty. Lack of such participation will prevent you from renewing your status, but you may re-apply for initial QDC status.

As a reminder, your status is contingent upon the absence of any trespassing violation (within the previous five years) by you or any person sampling under your supervision. Always obtain land owner permission prior to sampling.

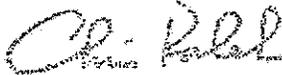
Additionally, collection (and retention) of aquatic biological samples (this includes fish, macroinvertebrates, mollusks, and shells) requires a collector's permit from the Ohio Department of Natural Resources/Division of Wildlife. Obtain this permit prior to collection of any biological samples.

Ted Stankard, Governor
Lee Fisher, Lieutenant Governor
Chris Kutzki, Director

Qualified Data Collector Approval
Page Two

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of seventy dollars (\$70.00) which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal must be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Commission at the following address: 309 South Fourth Street, Room 222, Columbus, Ohio 43215.

Sincerely,



Chris Korleski
Director