

Wilson, Donna

From: Steve Cockman <scockman@mcgillcompost.com>
Sent: Friday, August 03, 2012 9:07 AM
To: Wilson, Donna
Subject: Feedstock
Attachments: Durham County 2012.pdf

Donna,

McGill Environmental Systems requests the addition of 12,000 wet tons of waste water residuals generated by the Durham County Triangle WWTP as a feedstock source to permit number SWC 19-06. Attached are the analytical results and permit for the Triangle WWTP. McGill has reviewed the analytical results and found that they meet the requirements for pre acceptance.

Please contact me if you need any additional information.

Thanks,

Steve

Steve Cockman

Operations Manager

(M) 919-542-8903

(F) 919-362-1141

(O) 919-362-1161 ext. 7003

www.mcgillcompost.com





Meritech, Inc.
Environmental Laboratory
 Laboratory Certification No. 165

Contact: Stephanie Brixey
 Client: Durham County Triangle WWTP
 5926 NC HWY 55
 Durham, NC 27713

Report Date: 7/9/12
 Date Sample Rcvd: 6/12/12

Meritech Work Order # 06121273 Sample: Sludge 061117090 Grab 6/11/12

<u>Parameters</u>	<u>Result</u>	<u>Analysis Date</u>	<u>Reporting Limit</u>	<u>Method</u>
% Solids	14.8 mg/kg	6/12/12	NA	SM 2540 B
Ammonia Nitrogen	1,750 mg/kg	6/12/12	10 mg/kg	EPA 350.1
TKN, total	27,400 mg/kg	6/18/12	20 mg/kg	EPA 351.1
Nitrate/Nitrite, Nitrogen	< 67.6 mg/kg	6/13/12	67.6 mg/kg	EPA 353.2
Nitrogen, total	27,400 mg/kg	6/18/12	0.20 mg/kg	EPA 353.2
Aluminum, total	34,800 mg/kg	6/21/12	5.00 mg/kg	EPA 200.7
Arsenic, total	3.04 mg/kg	6/21/12	1.00 mg/kg	EPA 200.7
Cadmium, total	1.69 mg/kg	6/21/12	0.200 mg/kg	EPA 200.7
Calcium, total	19,200 mg/kg	6/21/12	10.0 mg/kg	EPA 200.7
Copper, total	278 mg/kg	6/21/12	1.00 mg/kg	EPA 200.7
Lead, total	18.6 mg/kg	6/21/12	1.00 mg/kg	EPA 200.7
Magnesium, total	4,830 mg/kg	6/21/12	10.0 mg/kg	EPA 200.7
Mercury, total	1.11 mg/kg	6/20/12	0.0200 mg/kg	EPA 245.1
Molybdenum, total	19.6 mg/kg	6/21/12	0.500 mg/kg	EPA 200.7
Nickel, total	26.4 mg/kg	6/21/12	1.00 mg/kg	EPA 200.7
Phosphorus, total	36,500 mg/kg	6/21/12	20.0 mg/kg	EPA 200.7
Potassium, total	2,190 mg/kg	6/21/12	20.0 mg/kg	EPA 200.7
Selenium, total	2.70 mg/kg	6/21/12	1.00 mg/kg	EPA 200.7
Sodium, total	1,320 mg/kg	6/21/12	20.0 mg/kg	EPA 200.7
Zinc, total	2,080 mg/kg	6/21/12	1.00 mg/kg	EPA 200.7
pH	6.7 S.U.	6/14/12	NA	SM 4500 H B

JUL 11 2012

I hereby certify that I have reviewed and approve these data.

 Laboratory Representative



MERITECH, INC.

Environmental Laboratories

A Division of Water Technology and Controls, Inc.

JUN 11 2012

Client:
Address:

Client Sample ID:
Sample Collection:
Meritech Sample ID:

Durham County Triangle WWTP
5926 NC Hwy. 55
Durham, NC 27713
Sludge 061112090
6/11/2012
06121273

Attn: Stephanie Brixey

1311 - TCLP Metals

Metals - EPA 200.7

Extraction: 6/13/2012
Analysis: 6/20/2012

Analyst: DK

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Det. Limit</u>	<u>Reg. Limit</u>	<u>Dilution Factor</u>
Arsenic	< 0.100	mg/L	0.100	5.0	1
Barium	1.02	mg/L	0.050	100.0	1
Cadmium	< 0.020	mg/L	0.020	1.0	1
Chromium	< 0.050	mg/L	0.050	5.0	1
Lead	< 0.100	mg/L	0.100	5.0	1
Selenium	< 0.100	mg/L	0.100	1.0	1
Silver	< 0.050	mg/L	0.050	5.0	1

Metals - EPA 245.1

Extraction: 6/13/2012
Analysis: 6/20/2012

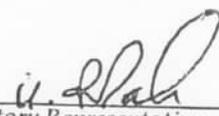
Analyst: PM

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Det. Limit</u>	<u>Reg. Limit</u>	<u>Dilution Factor</u>
Mercury	< 0.0200	mg/L	0.0200	0.02	1

<u>Parameter</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Det. Limit</u>	<u>Reg. Limit</u>	<u>Date Analyzed</u>
pH	SM 4500 HB	6.7	SU	-	2.0 - 12.5	6/14/2012
Total Sulfide	SM 4500 S D	< 68	mg/kg	68	NA	6/14/2012
Total Cyanide	EPA 335.4	< 3	mg/kg	3	NA	6/15/2012
Ignitability	1010	*WNi	°C	N/A	N/A	6/15/2012
Pesticides	8080	Attached	N/A	N/A	N/A	6/29/2012
Herbicides	8150	Attached	N/A	N/A	N/A	6/29/2012
Volatiles	8260	Attached	N/A	N/A	N/A	6/18/2012
Semi Volatiles	8270	Attached	N/A	N/A	N/A	6/20/2012

*Will Not Ignite

I hereby certify that I have reviewed and approve these data.


Laboratory Representative

642 Tamco Road * Reidsville, NC 27320
(336) 342-4748 Ph * (336) 342-1522 Fax

MERITECH, INC.

Environmental Laboratories

A Division of Water Technology and Controls, Inc.

JUL 11 2012

Client: Durham County TWWTP
Project: TCLP
Client Sample ID: Sludge 061112090
Sample Collection: 06/11/12
Meritech Sample ID: 06121273

1311 - TCLP Organics

Volatiles: SW-846 8260

Analysis: 06/18/12
Analyst: VWV

Date Extracted: 06/13/12

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Det. Limit</u>	<u>Reg. Limit</u>	<u>Dilution Factor</u>
Benzene	< 0.0100	mg/L	0.0100	0.50	1
Carbon Tetrachloride	< 0.0100	mg/L	0.0100	0.50	1
Chlorobenzene	< 0.0100	mg/L	0.0100	100	1
Chloroform	< 0.0100	mg/L	0.0100	6.0	1
1,2-Dichloroethane	< 0.0100	mg/L	0.0100	0.50	1
1,1-Dichloroethene	< 0.0100	mg/L	0.0100	0.70	1
Methyl Ethyl Ketone	< 0.100	mg/L	0.100	200	1
Tetrachloroethylene	< 0.0100	mg/L	0.0100	0.70	1
Trichloroethene	< 0.0100	mg/L	0.0100	0.50	1
Vinyl Chloride	< 0.0200	mg/L	0.020	0.20	1

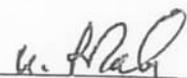
Semi-Volatiles: SW-846 8270

Extraction: 06/18/12
Analysis: 06/20/12

Analyst: MC

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Det. Limit</u>	<u>Reg. Limit</u>	<u>Dilution Factor</u>
1,4-Dichlorobenzene	< 0.100	mg/L	0.100	7.5	10
Hexachlorobenzene	< 0.100	mg/L	0.100	0.13	10
Hexachloro-1,3-butadiene	< 0.100	mg/L	0.100	0.5	10
Hexachloroethane	< 0.100	mg/L	0.100	3.00	10
o-cresol	< 0.100	mg/L	0.100	200	10
m&p-cresol	< 0.200	mg/L	0.200	200	10
Total cresols	< 0.300	mg/L	0.300	200	10
Nitrobenzene	< 0.100	mg/L	0.100	2.00	10
Pentachlorophenol	< 0.500	mg/L	0.500	100	10
Pyridine	< 0.100	mg/L	0.100	5.0	10
2,4,5-Trichlorophenol	< 0.100	mg/L	0.100	400	10
2,4,6-Trichlorophenol	< 0.100	mg/L	0.100	2.00	10
2,4-Dinitrotoluene	< 0.100	mg/L	0.100	0.13	10

I hereby certify that I have reviewed and approve these data.


Laboratory Representative

642 Tamco Road * Reidsville, NC 27320
(336) 342-4748 Ph * (336) 342-1522 Fax

Information for Durham County Triangle Wastewater Treatment Plant

Contact person: Rob Stewart
TWWTP Superintendent
Office No: 919-544-8825
Mobile No: 919-695-2917
Email: rstewart@durhamcountync.gov

Physical Address: 5926 NC Hwy 55 E.
Durham, North Carolina 27713

Average daily flow: 6.5 MGD

Permitted flow: 12 MGD

Average amount of residuals being generated at this facility: 2,000 dry tons per year

Type and volume of residuals treatment: extended aeration plant

Type and volume of residual storage: million gallons of liquid activated sludge, no de-watered storage

Note: TCLP sludge sample was collected from the lagoon and not from the new facility.

(COPY)



North Carolina Department of Environment and Natural Resources

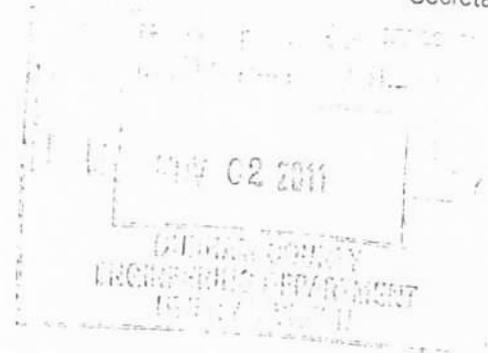
Division of Water Quality

Beverly Eaves Perdue
Governor

Coleen H. Sullins
Director

Dee Freeman
Secretary

October 21, 2011



Mr. Joseph Pearce
Utility Division Manager/POTW Director
County of Durham
Engineering Department/Utility Division
5926 NC Highway 55 East
Durham, North Carolina 27713

Subject: Issuance of NPDES
Permit NC0026051
Durham County Triangle WWTP
Durham County
Facility Class IV

Dear Mr. Pearce:

Division personnel have reviewed and approved your application for renewal of the subject permit. Accordingly, we are forwarding the attached NPDES discharge permit. This permit is issued pursuant to the requirements of North Carolina General Statute 143-215.1 and the Memorandum of Agreement between North Carolina and the U.S. Environmental Protection Agency dated October 15, 2007 (or as subsequently amended).

The Final Permit contains following significant changes from the Draft Permit:

- Monitoring frequency for Cu and Zn were reduced to Quarterly based on the review of the effluent data and in response to your request.
- Instream monitoring for nutrients was removed from the permit to eliminate redundancy and in response to your request.
- A special condition entitled Standard Conditions for NPDES Permits was added to the permit in response to your request.

This Final Permit maintains the following changes contained in the Draft Permit:

- A weekly average limit for Hg has been removed from the permit based on a statistical analysis of the effluent data. A monitoring frequency for Hg has been reduced to quarterly due to the removal of the limit.

1517 Mail Service Center, Raleigh, North Carolina 27699-1517
Location: 512 N. Salisbury St. Raleigh, North Carolina 27604
Phone: 919-807-6300 \ FAX: 919-807-6492 \ Customer Service: 1-877-623-6748
Internet: www.ncwaterquality.org

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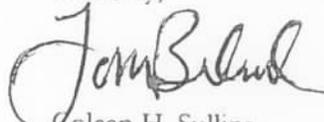
One
North Carolina
Naturally

- Instream monitoring at the downstream location D2 has been deleted based on the review of the effluent data and in response to your request.
- Instream monitoring frequency at the downstream location D1 has been reduced to weekly during summer period for the following parameters: dissolved oxygen, temperature, conductivity, fecal Coliform, pH. The decision is based on the review of the monitoring data and in response to your request.
- Monitoring frequency for annual pollutant scan has been reduced to 3 times during 5 years in response to your request.
- Monitoring frequency for chlorides has been reduced to quarterly based on the review of the effluent data and in response to your request.
- A monthly average limit for fluoride has been added to the permit to meet the new EPA requirement.

If any parts, measurement frequencies or sampling requirements contained in this permit are unacceptable to you, you have the right to an adjudicatory hearing upon written request within thirty (30) days following receipt of this letter. This request must be in the form of a written petition, conforming to Chapter 150B of the North Carolina General Statutes, and filed with the Office of Administrative Hearings (6714 Mail Service Center, Raleigh, North Carolina 27699-6714). Unless such demand is made, this decision shall be final and binding.

Please note that this permit is not transferable except after notice to the Division. The Division may require modification or revocation and reissuance of the permit. This permit does not affect the legal requirements to obtain other permits which may be required by the Division of Water Quality or permits required by the Division of Land Resources, the Coastal Area Management Act or any other Federal or Local governmental permit that may be required. If you have any questions concerning this permit, please contact Sergei Chernikov at telephone number (919) 807-6393.

Sincerely,


 Coleen H. Sullins
 for

cc: Central Files
 NPDES Files
 Raleigh Regional Office / Surface Water Protection Section
 EPA Region IV (e-copy)
 Aquatic Toxicology Unit (e-copy)
 Basin Coalition Coordinator (Jennie.Atkins@ncdenr.gov)

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WATER QUALITY

PERMIT

TO DISCHARGE WASTEWATER UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of North Carolina General Statute 143-215.1, other lawful standards and regulations promulgated and adopted by the North Carolina Environmental Management Commission, and the Federal Water Pollution Control Act, as amended,

Durham County

is hereby authorized to discharge wastewater from a facility located at the

Durham County Triangle WWTP
5926 NC Highway 55
Durham County

to receiving waters designated as Northeast Creek in the Cape Fear River Basin

in accordance with effluent limitations, monitoring requirements, and other conditions set forth in Parts I, II, III, and IV hereof.

This permit shall become effectiveDecember 1, 2011.

This permit and authorization to discharge shall expire at midnight on April 30, 2016.

Signed this day October 21, 2011.



Coleen H. Sullins, Director
Division of Water Quality
By Authority of the Environmental Management Commission