

# EMER/KOC

14W12314

## DIVISION OF WATER RESOURCES

### Surface Water Fieldsheet

COUNTY : Caswell  
 RIVER BASIN : Roanoke 04

REPORT TO : Winston-Salem Regional Office

Other :  
 COLLECTOR(S) : Snyder / Mackey

PRIORITY  
 AMBIENT  QA  
 COMPLIANCE  CHAIN OF CUSTODY  
 EMERGENCY VISIT ID 1

SAMPLE TYPE  
 STREAM  EFFLUENT  
 LAKE  INFLUENT  
 ESTUARY 4

Lab Number AC04840  
 Date Received: 2-8-14  
 Time Received: 13:35  
 Received By: mf  
 Date Released :  
 Date Reported :

Estimated BOD Range:

Station Location: Dan R. at Milton

Seed: \_\_\_\_\_


Chlorinated: \_\_\_\_\_

Remarks: \_\_\_\_\_

Station #/Location Code	Date Begin (yy/mm/dd)	Date End (yy/mm/dd)	Time Begin	Time End	Depth - DM, DB, DBM	Value Type - A, H, L	Composite-T, S, B	Sample Type
N3500000	14/02/05		11:25					G

<input checked="" type="checkbox"/> BOD 310	mg/L	<input checked="" type="checkbox"/> Chloride 940	mg/L	<input checked="" type="checkbox"/> NH3 as N 610	mg/L	<input checked="" type="checkbox"/> Li-Lithium 1132	ug/L
<input checked="" type="checkbox"/> COD High 340	mg/L	<input checked="" type="checkbox"/> Chlorophyll a EPA 445.0 modified option	ug/L	<input checked="" type="checkbox"/> TKN an N 625	mg/L	<input checked="" type="checkbox"/> Mg- Magnesium 927	mg/L
<input checked="" type="checkbox"/> COD Low 335	mg/L	<input checked="" type="checkbox"/> Color: True 80	c.u.	<input checked="" type="checkbox"/> NO2 plus NO3 as N 630	mg/L	<input checked="" type="checkbox"/> Mn-Manganese 1055	ug/L
<input checked="" type="checkbox"/> Coliform: MF Fecal 31616	/100ml	<input checked="" type="checkbox"/> Color: (pH ) 83	pH= c.u.	<input checked="" type="checkbox"/> P: Total as P 665	mg/L	<input checked="" type="checkbox"/> Na- Sodium 929	mg/L
<input checked="" type="checkbox"/> Coliform: MF Total 31504	/100ml	<input checked="" type="checkbox"/> Color: pH 7.6 82	c.u.	<input checked="" type="checkbox"/> PO4 as P 70507	mg/L	<input checked="" type="checkbox"/> Arsenic: Total 1002	ug/L
<input checked="" type="checkbox"/> Coliform: tube Fecal 31615	/100ml	<input checked="" type="checkbox"/> Cyanide 720	mg/L	<input checked="" type="checkbox"/> P: Dissolved as P 666	mg/L	<input checked="" type="checkbox"/> Se- Selenium 1147	ug/L
<input checked="" type="checkbox"/> Coliform: Fecal Strep 31673	/100ml	<input checked="" type="checkbox"/> Fluoride 951	mg/L	<input checked="" type="checkbox"/> K- Potassium	mg/L	<input checked="" type="checkbox"/> Hg- Mercury 71900	ug/L
<input checked="" type="checkbox"/> Residue: Total 500	mg/L	<input checked="" type="checkbox"/> Formaldehyde 71880	mg/L	<input checked="" type="checkbox"/> Cd- Cadmium 1027	ug/L	<input checked="" type="checkbox"/> Ba- Barium	ug/L
<input checked="" type="checkbox"/> Volatile 505	mg/L	<input checked="" type="checkbox"/> Grease and Oils 556	mg/L	<input checked="" type="checkbox"/> Cr- Chromium: Total 1034	ug/L	<input checked="" type="checkbox"/> Organochlorine Pesticides	
<input checked="" type="checkbox"/> Fixed 510	mg/L	<input checked="" type="checkbox"/> Hardness Total 900	mg/L	<input checked="" type="checkbox"/> Cu- Copper 1042	ug/L	<input checked="" type="checkbox"/> Organophosphorus Pesticides	
<input checked="" type="checkbox"/> Residue: Suspended 530	mg/L	<input checked="" type="checkbox"/> Specific Cond. 95	umhos/cm	<input checked="" type="checkbox"/> Ni- Nickel 1067	ug/L	<input checked="" type="checkbox"/> Organonitrogen Pesticides	
<input checked="" type="checkbox"/> Volatile 535	mg/L	<input checked="" type="checkbox"/> MBAS 38260	mg/L	<input checked="" type="checkbox"/> Pb- Lead 1051	ug/L	<input checked="" type="checkbox"/> Acid Herbicides	
<input checked="" type="checkbox"/> Fixed 540	mg/L	<input checked="" type="checkbox"/> Phenols 32730	ug/L	<input checked="" type="checkbox"/> Zn- Zinc 1092	ug/L	<input checked="" type="checkbox"/> Base/Neutral & Acid Extractable Organics	
<input checked="" type="checkbox"/> pH 403	units	<input checked="" type="checkbox"/> Sulfate 945	mg/L	<input checked="" type="checkbox"/> <del>Mercury</del> <u>45</u>	ug/L	<input checked="" type="checkbox"/> TPH Diesel Range	
<input checked="" type="checkbox"/> Acidity to pH 4.5 436	mg/L	<input checked="" type="checkbox"/> Sulfide 745	mg/L	<input checked="" type="checkbox"/> Ag- Silver 1077	ug/L	<input checked="" type="checkbox"/> Purgeable Organics (VOA bottle req'd)	
<input checked="" type="checkbox"/> Acidity to pH 8.3 435	mg/L	<input checked="" type="checkbox"/> Boron		<input checked="" type="checkbox"/> Al- Aluminum 1105	ug/L	<input checked="" type="checkbox"/> TPH Gasoline Range	
<input checked="" type="checkbox"/> Alkalinity to pH 8.3 415	mg/L	<input checked="" type="checkbox"/> Tannin & Lignin	ug/L	<input checked="" type="checkbox"/> Be- Beryllium 1012	ug/L	<input checked="" type="checkbox"/> TPH/BTEX Gasoline Range	
<input checked="" type="checkbox"/> Alkalinity to pH 4.5 410	mg/L	<input checked="" type="checkbox"/> Hexavalent Chromium	ug/L	<input checked="" type="checkbox"/> Ca- Calcium 916	mg/L	<input checked="" type="checkbox"/> Phytoplankton	
<input checked="" type="checkbox"/> TOC 680	mg/L	<input checked="" type="checkbox"/> Bicarbonate	mg/L	<input checked="" type="checkbox"/> Co- Cobalt 1037	ug/L		
<input checked="" type="checkbox"/> Turbidity 76	NTU	<input checked="" type="checkbox"/> Carbonate	mg/L	<input checked="" type="checkbox"/> Fe- Iron 1045	ug/L		
<input checked="" type="checkbox"/> Coliform Total Tube	/100 ml	<input checked="" type="checkbox"/> Total Dissolved Solids	mg/L	<input checked="" type="checkbox"/> Mo- Molybdenum	ug/L		
				<input checked="" type="checkbox"/> Sb- Antimony	ug/L		
				<input checked="" type="checkbox"/> Sn- Tin	ug/L		
				<input checked="" type="checkbox"/> Tl- Thallium	ug/L		
				<input checked="" type="checkbox"/> Ti- Titanium	ug/L		
				<input checked="" type="checkbox"/> Hg- 1631	ng/L		
						Temperature on arrival (°C):	<u>3.6</u>

COMMENTS:

County:	<u>CASWELL</u>	Sample ID:	<b>AC04840</b>
River Basin:	<u>ROA04</u>	PO Number #:	<b>14W12314</b>
Report To:	<u>WSROSP</u>	Date Received:	<b>02/08/2014</b>
Collector:	<u>M MICKEY</u>	Time Received:	<b>13:35</b>
Region:	<u>WSRO</u>	Labworks LoginID:	<b>MSWIFT</b>
Sample Matrix:	<u>SURFACEWATER</u>	Final Report Date:	<b>2/26/14</b>
Loc. Type:	<u>RIVER/STREAM</u>	Report Print Date:	<b>02/26/2014</b>
Emergency Yes/No:	<u>Yes</u>		
COC Yes/No:	<u>Yes</u>		
<b>Final Report</b>			
VisitID	<input type="text" value="1"/>		
Loc. Descr.: <b>DAN RIV AT NC 57 AT VA LINE AT MILTON</b>			
Location ID:	<b>N3500000</b>	Collect Date:	<b>02/08/2014</b>
		Collect Time:	<b>11:25</b>
		Sample Depth:	
<b>If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.</b>			

CAS #	Analyte Name	PQL	Result/ Qualifier	Units	Method Reference	Analysis Date	Validated by
<b>LAB</b>							
	Sample temperature at receipt by lab		<b>3.6</b>	°C		2/8/14	TASCENZO
<b>MIC</b>							
	Turbidity	1.0	<b>23</b>	NTU	APHA2130B-20th	2/10/14	ESTAFFORD1
<b>WET</b>							
	Residue_Total in liquid	12	<b>101</b>	mg/L	SM 2540 B-1997	2/12/14	CGREEN
	Residue_Suspended in liquid	6.2	<b>18</b>	mg/L	SM 2540 D-1997	2/10/14	CGREEN
	Ion Chromatography		<u>  TITLE  </u>	mg/L	EPA 300.0 rev2.1	2/11/14	CGREEN
	Chloride	1.0	<b>13</b>	mg/L	EPA 300.0 rev2.1	2/11/14	CGREEN
	Fluoride	0.4	<b>0.4 U</b>	mg/L	EPA 300.0 rev2.1	2/11/14	CGREEN
	Sulfate	2.0	<b>6.7</b>	mg/L	EPA 300.0 rev2.1	2/11/14	CGREEN
<b>NUT</b>							
	NH3 as N in liquid	0.02	<b>0.04</b>	mg/L as N	EPA 350.1 REV 2	2/10/14	CGREEN
	Total Kjeldahl N as N in liquid	0.2	<b>0.28</b>	mg/L as N	EPA 351.2 REV 2	2/11/14	CGREEN
	NO2+NO3 as N in liquid	0.02	<b>0.34</b>	mg/L as N	EPA 353.2 REV 2	2/10/14	CGREEN
	Phosphorus_total as P in liquid	0.02	<b>0.05</b>	mg/L as P	EPA 365.1 REV 2	2/10/14	CGREEN
<b>MET</b>							
7440-22-4	Ag by ICPMS	1.0	<b>1.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7429-90-5	Al by ICP	50	<b>980</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7440-36-0	Antimony by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	2/22/14	ESTAFFORD1
7440-38-2	As by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7429-90-5	B by ICP	50	<b>100</b>	ug/L	EPA 200.7	2/17/14	ESTAFFORD1
7440-38-3	Ba by ICP	10	<b>40</b>	ug/L	EPA 200.7	2/17/14	ESTAFFORD1
7440-41-7	Be by ICP	5.0	<b>5.0 U</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7440-70-2	Ca by ICP	0.10	<b>8.1</b>	mg/L	EPA 200.7	2/17/14	ESTAFFORD1
7440-43-9	Cd by ICPMS	0.50	<b>0.50 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7440-48-4	Cobalt by ICP	50	<b>50 U</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7440-47-3	Cr by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7440-50-8	Cu by ICPMS	2.0	<b>2.2</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7439-89-6	Fe by ICP	50	<b>1400</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7439-97-6	Hg 245.1	0.2	<b>0.20 U</b>	ug/L	EPA 245.1	2/11/14	ESTAFFORD1

*NC DW/R Laboratory Section Results*

Location ID: **N3500000**

Sample ID: **AC04840**

Collect Date: **02/08/2014**

Collect Time: **11:25**

**MET**

<u>CAS #</u>	<u>Analyte Name</u>	<u>PQL</u>	<u>Result/ Qualifier</u>	<u>Units</u>	<u>Method Reference</u>	<u>Analysis Date</u>	<u>Validated by</u>
7440-09-7	K by ICP	0.10	<b>2.0</b>	mg/L	EPA 200.7	2/17/14	ESTAFFORD1
7439-93-2	Li ICP	25	<b>25 U</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7439-95-4	Mg by ICP	0.10	<b>3.0</b>	mg/L	EPA 200.7	2/17/14	ESTAFFORD1
7439-96-5	Mn by ICP	10	<b>40</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7439-98-7	Mo by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	2/22/14	ESTAFFORD1
7440-23-5	Na by ICP	0.10	<b>8.9</b>	mg/L	EPA 200.7	2/17/14	ESTAFFORD1
7440-02-0	Ni by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7439-92-1	Pb by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7782-49-2	Se by ICPMS	5.0	<b>5.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7440-31-5	Sn by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	2/22/14	ESTAFFORD1
7440-24-6	Sr by ICPMS	10	<b>84</b>	ug/L	EPA 200.8	2/22/14	ESTAFFORD1
7440-28-0	Thallium (Tl) ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/22/14	ESTAFFORD1
7440-32-6	Ti (Titanium) by ICP	10	<b>61</b>	ug/L	EPA 200.7	2/20/14	ESTAFFORD1
7440-62-2	V by ICP	25	<b>25 U</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7440-66-6	Zn by ICP	10	<b>10</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1

# EMER/COC

DIVISION OF WATER RESOURCES

14W12315

## Surface Water Fieldsheet

COUNTY : Caswell  
 RIVER BASIN : Roanoke 04  
 REPORT TO : Winston-Salem Regional Office  
 Other :  
 COLLECTOR(S) : Snow / Mickey

PRIORITY  
 AMBIENT       QA  
 COMPLIANCE       CHAIN OF CUSTODY  
 EMERGENCY      VISIT ID  
    1

SAMPLE TYPE  
 STREAM       EFFLUENT  
 LAKE       INFLUENT  
 ESTUARY      4

Lab Number: AC04841  
 Date Received: 2-8-14  
 Time Received: 3:35  
 Received By: mp  
 Data Released:  
 Date Reported:

Estimated BOD Range:

Station Location: Dan R. at Milton

Seed: \_\_\_\_\_ Chlorinated: \_\_\_\_\_


Remarks: Dissolved Metals

Station #/Location Code	Date Begin (yy/mm/dd)	Date End (yy/mm/dd)	Time Begin	Time End	Depth - DM, DB, DBM	Value Type - A, H, L	Composite-T, S, B	Sample Type
N3500000	14/02/08		7:25					G

BOD 310 mg/L	Chloride 940 mg/L	NH3 as N 610 mg/L	Li-Lithium 1132 ug/L
COD High 340 mg/L		TKN an N 625 mg/L	<input checked="" type="checkbox"/> Mg- Magnesium 927 mg/L
COD Low 335 mg/L	Chlorophyll a EPA 445.0 modified option ug/L	NO2 plus NO3 as N 630 mg/L	<input checked="" type="checkbox"/> Mn-Manganese 1055 ug/L
Coliform: MF Fecal 31616 /100ml		P: Total as P 665 mg/L	<input checked="" type="checkbox"/> Na- Sodium 929 mg/L
Coliform: MF Total 31504 /100ml	Color: True 80 c.u.	PO4 as P 70507 mg/L	<input checked="" type="checkbox"/> Arsenic: Total 1002 ug/L
Coliform: tube Fecal 31615 /100ml	Color: (pH ) 83 pH= c.u.	P: Dissolved as P 666 mg/L	<input checked="" type="checkbox"/> Se- Selenium 1147 ug/L
Coliform: Fecal Strep 31673 /100ml	Color: pH 7.6 82 c.u.	<input checked="" type="checkbox"/> K-Potassium mg/L	<input checked="" type="checkbox"/> Hg- Mercury 71900 ug/L
Residue: Total 500 mg/L	Cyanide 720 mg/L	<input checked="" type="checkbox"/> Cd- Cadmium 1027 ug/L	Ba-Barium ug/L
Volatile 505 mg/L	Fluoride 951 mg/L	<input checked="" type="checkbox"/> Cr-Chromium: Total 1034 ug/L	Organochlorine Pesticides
Fixed 510 mg/L	Formaldehyde 71880 mg/L	<input checked="" type="checkbox"/> Cu- Copper 1042 ug/L	Organophosphorus Pesticides
Residue: Suspended 530 mg/L	Grease and Oils 556 mg/L	<input checked="" type="checkbox"/> Ni-Nickel 1067 ug/L	Organonitrogen Pesticides
Volatile 535 mg/L	Hardness Total 900 mg/L	<input checked="" type="checkbox"/> Pb- Lead 1051 ug/L	Acid Herbicides
Fixed 540 mg/L	Specific Cond. 95 umhos/cm	<input checked="" type="checkbox"/> Zn- Zinc 1092 ug/L	
pH 403 units	MBAS 38260 mg/L	V-Vanadium ug/L	Base/Neutral&Acid Extractable Organics
Acidity to pH 4.5 436 mg/L	Phenols 32730 mg/L	Ag- Silver 1077 ug/L	TPH Diesel Range
Acidity to pH 8.3 435 mg/L	Sulfate 945 mg/L	<input checked="" type="checkbox"/> Al- Aluminum 1105 ug/L	
Alkalinity to pH 8.3 415 mg/L	Sulfide 745 mg/L	<input checked="" type="checkbox"/> Be- Beryllium 1012 ug/L	Purgeable Organics (VOA bottle req'd)
Alkalinity to pH 4.5 410 mg/L	Boron	<input checked="" type="checkbox"/> Ca- Calcium 916 mg/L	TPH Gasoline Range
TOC 680 mg/L	Tannin & Lignin ug/L	Co- Cobalt 1037 ug/L	TPH/BTEX Gasoline Range
Turbidity 76 NTU	Hexavalent Chromium ug/L	<input checked="" type="checkbox"/> Fe- Iron 1045 ug/L	Phytoplankton
Coliform Total Tube /100 ml	Bicarbonate mg/L	Mo-Molybdenum ug/L	
	Carbonate mg/L	Sb-Antimony ug/L	
	Total Dissolved Solids mg/L	Sn-Tin ug/L	
		Tl-Thallium ug/L	
		Ti-Titanium ug/L	
		Hg-1631 ng/L	Temperature on arrival (°C): <u>3-6</u>

COMMENTS:

County:	<b>CASWELL</b>	Sample ID:	<b>AC04841</b>
River Basin:	<b>ROA04</b>	PO Number #:	<b>14W12315</b>
Report To:	<b>WSROSP</b>	Date Received:	<b>02/08/2014</b>
Collector:	<b>M MICKEY</b>	Time Received:	<b>13:35</b>
Region:	<b>WSRO</b>	Labworks LoginID:	<b>MSWIFT</b>
Sample Matrix:	<b>SURFACEWATER</b>	Final Report Date:	<b>2/26/14</b>
Loc. Type:	<b>RIVER/STREAM</b>	Report Print Date:	<b>02/26/2014</b>
Emergency Yes/No:	<b>Yes</b>		
COC Yes/No:	<b>Yes</b>		



**Final Report**

VisitID

Loc. Descr.: **DAN RIV AT NC 57 AT VA LINE AT MILTON**

Location ID:	<b>N3500000</b>	Collect Date:	<b>02/08/2014</b>	Collect Time:	<b>11:25</b>	Sample Depth:	
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**If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.**

CAS #	Analyte Name	PQL	Result/ Qualifier	Units	Method Reference	Analysis Date	Validated by
<b>LAB</b>							
	Sample temperature at receipt by lab		<b>3.6</b>	°C		2/8/14	TASCENZO
<b>MET</b>							
7440-38-2	As- Dissolved by ICPMS Arsenic	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7440-41-7	Be-Beryllium Dissolved by ICP	5.0	<b>5.0 U</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7440-70-2	Ca-Dissolved Calcium by ICP	0.10	<b>7.9</b>	mg/L	EPA 200.7	2/17/14	ESTAFFORD1
7440-43-9	Cd- Dissolved Cadmium by ICPMS	0.50	<b>0.50 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7440-47-3	Cr- Dissolved Chromium by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7440-50-8	Cu- Dissolved Copper by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7439-89-6	Fe- Dissolved Iron by ICP	50	<b>140</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7440-09-7	K-Dissolved Potassium by ICP	0.10	<b>1.8</b>	mg/L	EPA 200.7	2/17/14	ESTAFFORD1
7439-95-4	Mg- Dissolved Magnesium by ICP	0.10	<b>2.9</b>	mg/L	EPA 200.7	2/17/14	ESTAFFORD1
7439-96-5	Dissolved Mn by ICP	10	<b>24</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7440-23-5	Na-Dissolved Sodium by ICP	0.10	<b>8.8</b>	mg/L	EPA 200.7	2/17/14	ESTAFFORD1
7440-02-0	Ni-Dissolved Nickel by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7439-92-1	Pb-Dissolved Lead by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7782-49-2	Se-Dissolved Selenium by ICPMS	5.0	<b>5.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7440-22-4	Ag-Dissolved Silver by ICPMS	1.0	<b>1.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7429-90-5	Al - Dissolved Aluminum by ICP	50	<b>80</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7429-90-5	B by ICP	50	<b>98</b>	ug/L	EPA 200.7	2/17/14	ESTAFFORD1
7440-38-3	Ba- Dissolved Barium by ICP	10	<b>28</b>	ug/L	EPA 200.7	2/17/14	ESTAFFORD1
7440-48-4	Cobalt Dissolved by ICP	50	<b>50 U</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7439-97-6	Hg 245.1 Dissolved	0.2	<b>0.20 U</b>	ug/L	EPA 245.1	2/11/14	ESTAFFORD1
7439-93-2	Li DISSOLVED ICP	25	<b>25 U</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7439-98-7	Mo Dissolved by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	2/22/14	ESTAFFORD1
7440-36-0	Sb Dissolved by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	2/22/14	ESTAFFORD1
7440-31-5	Sn Dissolved by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	2/22/14	ESTAFFORD1
	Stronium Dissolved by ICPMS	10	<b>84</b>	ug/L	EPA 200.8	2/22/14	ESTAFFORD1
7440-28-0	Thallium (Tl) Dissolved by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/22/14	ESTAFFORD1
7440-32-6	Ti (Titanium) Dissolved by ICP	10	<b>10 U</b>	ug/L	EPA 200.7	2/20/14	ESTAFFORD1
7440-62-2	V Dissolved by ICP	25	<b>25 U</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1

NC DWR Laboratory Section Results

Location ID: N3500000

Sample ID: AC04841

Collect Date: 02/08/2014

Collect Time: 11:25

**MET**

<u>CAS #</u>	<u>Analyte Name</u>	<u>PQL</u>	<u>Result/ Qualifier</u>	<u>Units</u>	<u>Method Reference</u>	<u>Analysis Date</u>	<u>Validated by</u>
7440-66-6	Zn-Dissolved Zinc by ICP	10	<b>10 U</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1

DIVISION OF WATER RESOURCES

Surface Water Fieldsheet

COUNTY : Caswell  
 RIVER BASIN : Roanoke 04  
 REPORT TO : Winston-Salem Regional Office  
 Other :  
 COLLECTOR(S) : Snyder / Mickey

PRIORITY  
 AMBIENT  QA  
 COMPLIANCE  CHAIN OF CUSTODY  
 EMERGENCY VISIT ID 

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SAMPLE TYPE  
 STREAM  EFFLUENT  
 LAKE  INFLUENT  
 ESTUARY

4

Lab Number: AC04849  
 Date Received: 2-9-14  
 Time Received: 1400  
 Received By: WLR  
 Data Released :  
 Date Reported :

Estimated BOD Range:

Station Location: Dan R. at Milton


Seed: \_\_\_\_\_ Chlorinated: \_\_\_\_\_

Remarks: (43) Hg70 Mercury sample

Station #/Location Code	Date Begin (yy/mm/dd)	Date End (yy/mm/dd)	Time Begin	Time End	Depth - DM, DB, DBM	Value Type - A, H, L	Composite-T, S, B	Sample Type
N3500000	<u>14/02/08</u>		<u>11:2</u>					G

BOD 310 mg/L	Chloride 940 mg/L	NH3 as N 610 mg/L	Li-Lithium 1132 ug/L
COD High 340 mg/L		TKN an N 625 mg/L	Mg- Magnesium 927 mg/L
COD Low 335 mg/L	Chlorophyll a EPA 445.0 modified option ug/L	NO2 plus NO3 as N 630 mg/L	Mn-Manganese 1055 ug/L
Coliform: MF Fecal 31616 /100ml		P: Total as P 665 mg/L	Na- Sodium 929 mg/L
Coliform: MF Total 31504 /100ml	Color: True 80 c.u.	PO4 as P 70507 mg/L	Arsenic: Total 1002 ug/L
Coliform: tube Fecal 31615 /100ml	Color: (pH ) 83 pH= c.u.	P: Dissolved as P 666 mg/L	Se- Selenium 1147 ug/L
Coliform: Fecal Strep 31673 /100ml	Color: pH 7.6 82 c.u.	K-Potassium mg/L	Hg- Mercury 71900 ug/L
Residue: Total 500 mg/L	Cyanide 720 mg/L	Cd- Cadmium 1027 ug/L	Ba-Barium ug/L
Volatile 505 mg/L	Fluoride 951 mg/L	Cr-Chromium: Total 1034 ug/L	Organochlorine Pesticides
Fixed 510 mg/L	Formaldehyde 71880 mg/L	Cu- Copper 1042 ug/L	Organophosphorus Pesticides
Residue: Suspended 530 mg/L	Grease and Oils 556 mg/L	Ni-Nickel 1067 ug/L	Organonitrogen Pesticides
Volatile 535 mg/L	Hardness Total 900 mg/L	Pb- Lead 1051 ug/L	Acid Herbicides
Fixed 540 mg/L	Specific Cond. 95 umhos/cm	Zn- Zinc 1092 ug/L	
pH 403 units	MBAS 38260 mg/L	V-Vanadium ug/L	Base/Neutral&Acid Extractable Organics
Acidity to pH 4.5 436 mg/L	Phenols 32730 ug/L	Ag- Silver 1077 ug/L	TPH Diesel Range
Acidity to pH 8.3 435 mg/L	Sulfate 945 mg/L	Al- Aluminum 1105 ug/L	
Alkalinity to pH 8.3 415 mg/L	Sulfide 745 mg/L	Be- Beryllium 1012 ug/L	Purgeable Organics (VOA bottle req'd)
Alkalinity to pH 4.5 410 mg/L	Boron	Ca- Calcium 916 mg/L	TPH Gasoline Range
TOC 680 mg/L	Tannin & Lignin ug/L	Co- Cobalt 1037 ug/L	TPH/BTEX Gasoline Range
Turbidity 76 NTU	Hexavalent Chromium ug/L	Fe- Iron 1045 ug/L	Phytoplankton
Coliform Total Tube /100 ml	Bicarbonate mg/L	Mo-Molybdenum ug/L	
	Carbonate mg/L	Sb-Antimony ug/L	
	Total Dissolved Solids mg/L	Sn-Tin ug/L	
		Tl-Thallium ug/L	
		Ti-Titanium ug/L	
		Hg-1631 ng/L	Temperature on arrival (°C):

COMMENTS : 7 Col 1/2

County: <u>CASWELL</u>	 <p><b>DWR</b> Division of Water Resources</p> <p><b>Final Report</b></p> <p>VisitID <input style="width:50px;" type="text" value="1"/></p> <p>Loc. Descr.: <u>DAN R at Milton</u></p>	Sample ID: <b>AC04849</b>	
River Basin: <u>ROA04</u>		PO Number #: <b>14W12323</b>	
Report To: <u>WSROSP</u>		Date Received: <b>02/08/2014</b>	
Collector: <u>M MICKEY</u>		Time Received: <b>14:00</b>	
Region: <u>WSRO</u>		Labworks LoginID: <b>MSWIFT</b>	
Sample Matrix: <u>SURFACEWATER</u>		Final Report Date: <b>2/20/14</b>	
Loc. Type: <u>RIVER/STREAM</u>	Report Print Date: <b>02/20/2014</b>		
Emergency Yes/No: <u>Yes</u>			
COC Yes/No: <u>Yes</u>			

Location ID: <b>N3500000</b>	Collect Date: <b>02/08/2014</b>	Collect Time: <b>11:12</b>	Sample Depth
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***If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.***

<u>CAS #</u>	<u>Analyte Name</u>	<u>PQL</u>	<u>Result/Qualifier</u>	<u>Units</u>	<u>Method Reference</u>	<u>Analysis Date</u>	<u>Validated by</u>
<b>MET</b>							
7439-97-6	Hg 1631	1.00	<b>4.18</b>	ng/L	EPA 1631E	2/19/14	ESTAFFORD1



6/26/16

14w 12339 347A

AC 04860 mpa  
AZ 4860 NA

DIVISION OF WATER RESOURCES

Surface Water Fieldsheet

COUNTY : Caswell  
RIVER BASIN : Roanoke 04  
REPORT TO : Winston-Salem Regional Office  
Other :  
COLLECTOR(S) : J. P. ... SK...

PRIORITY  
 AMBIENT  QA  
 COMPLIANCE  CHAIN OF CUSTODY  
 EMERGENCY VISIT ID 7

SAMPLE TYPE  
 STREAM  EFFLUENT  
 LAKE  INFLUENT  
 ESTUARY  
4

Lab Number  
Date Received 2-9-17  
Time Received 1453  
Received By :  
Data Released :  
Date Reported :

Estimated BOD Range:

Station Location: Dan R. at Milton


Seed: Chlorinated:

Remarks:

Table with 8 columns: Station #/Location Code, Date Begin (yy/mm/dd), Date End (yy/mm/dd), Time Begin, Time End, Depth - DM, DB, DBM, Value Type - A, H, L, Composite-T, S, B, Sample Type G

Main data table with 4 columns of parameters and units. Includes items like BOD 310, Chloride 940, NH3 as N 610, etc.

COMMENTS:

County:	<b>CASWELL</b>	 <b>Division of Water Resources</b>	Sample ID:	<b>AC04860</b>
River Basin:	<b>ROA04</b>		PO Number #	<b>14W12334</b>
Report To:	<b>WSROSP</b>		Date Received:	<b>02/09/2014</b>
Collector:	<b>J IVERSON</b>		Time Received:	<b>14:33</b>
Region:	<b>WSRO</b>	Labworks LoginID	<b>TASCENZO</b>	
Sample Matrix:	<b>SURFACEWATER</b>	Final Report Date:	<b>2/26/14</b>	
Loc. Type:	<b>RIVER/STREAM</b>	Report Print Date:	<b>02/26/2014</b>	
Emergency Yes/No	<u>Yes</u>	VisitID	<input type="text" value="7"/>	
COC Yes/No	<u>Yes</u>			
<b>Final Report</b>				
Loc. Descr.: <b>DAN R. AT MILTON</b>				
Location ID: <b>N3500000</b>		Collect Date: <b>02/09/2014</b>	Collect Time: <b>12:50</b>	Sample Depth
<b>If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.</b>				

CAS #	Analyte Name	PQL	Result/ Qualifier	Units	Method Reference	Analysis Date	Validated by
<b>LAB</b>							
	Sample temperature at receipt by lab		<b>0.8</b>	°C		2/10/14	TASCENZO
<b>MIC</b>							
	Turbidity	1.0	<b>17</b>	NTU	APHA2130B-20th	2/10/14	ESTAFFORD1
<b>WET</b>							
	Residue_Total in liquid	12	<b>94</b>	mg/L	SM 2540 B-1997	2/12/14	CGREEN
	Residue_Suspended in liquid	6.2	<b>16</b>	mg/L	SM 2540 D-1997	2/10/14	CGREEN
	Ion Chromatography		<u>    </u>	mg/L	EPA 300.0 rev2.1	2/11/14	CGREEN
	Chloride	1.0	<b>13</b>	mg/L	EPA 300.0 rev2.1	2/11/14	CGREEN
	Fluoride	0.4	<b>0.4 U</b>	mg/L	EPA 300.0 rev2.1	2/11/14	CGREEN
	Sulfate	2.0	<b>5.3</b>	mg/L	EPA 300.0 rev2.1	2/11/14	CGREEN
<b>NUT</b>							
	NH3 as N in liquid	0.02	<b>0.04</b>	mg/L as N	EPA 350.1 REV 2	2/10/14	CGREEN
	Total Kjeldahl N as N in liquid	0.2	<b>0.20</b>	mg/L as N	EPA 351.2 REV 2	2/11/14	CGREEN
	NO2+NO3 as N in liquid	0.02	<b>0.32</b>	mg/L as N	EPA 353.2 REV 2	2/10/14	CGREEN
	Phosphorus_total as P in liquid	0.02	<b>0.04</b>	mg/L as P	EPA 365.1 REV 2	2/10/14	CGREEN
<b>MET</b>							
7440-22-4	Ag by ICPMS	1.0	<b>1.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7429-90-5	Al by ICP	50	<b>750</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7440-36-0	Antimony by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	2/22/14	ESTAFFORD1
7440-38-2	As by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7429-90-5	B by ICP	50	<b>100</b>	ug/L	EPA 200.7	2/17/14	ESTAFFORD1
7440-38-3	Ba by ICP	10	<b>37</b>	ug/L	EPA 200.7	2/17/14	ESTAFFORD1
7440-41-7	Be by ICP	5.0	<b>5.0 U</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7440-70-2	Ca by ICP	0.10	<b>8.3</b>	mg/L	EPA 200.7	2/17/14	ESTAFFORD1
7440-43-9	Cd by ICPMS	0.50	<b>0.50 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7440-48-4	Cobalt by ICP	50	<b>50 U</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7440-47-3	Cr by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7440-50-8	Cu by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7439-89-6	Fe by ICP	50	<b>1100</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7439-97-6	Hg 245.1	0.2	<b>0.20 U</b>	ug/L	EPA 245.1	2/19/14	ESTAFFORD1

*NC DW/R Laboratory Section Results*

Location ID: **N3500000**

Sample ID: **AC04860**

Collect Date: **02/09/2014**

Collect Time: **12:50**

**MET**

<u>CAS #</u>	<u>Analyte Name</u>	<u>PQL</u>	<u>Result/ Qualifier</u>	<u>Units</u>	<u>Method Reference</u>	<u>Analysis Date</u>	<u>Validated by</u>
7440-09-7	K by ICP	0.10	<b>1.9</b>	mg/L	EPA 200.7	2/17/14	ESTAFFORD1
7439-93-2	Li ICP	25	<b>25 U</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7439-95-4	Mg by ICP	0.10	<b>3.1</b>	mg/L	EPA 200.7	2/17/14	ESTAFFORD1
7439-96-5	Mn by ICP	10	<b>46</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7439-98-7	Mo by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	2/22/14	ESTAFFORD1
7440-23-5	Na by ICP	0.10	<b>9.1</b>	mg/L	EPA 200.7	2/17/14	ESTAFFORD1
7440-02-0	Ni by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7439-92-1	Pb by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7782-49-2	Se by ICPMS	5.0	<b>5.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7440-31-5	Sn by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	2/22/14	ESTAFFORD1
7440-24-6	Sr by ICPMS	10	<b>89</b>	ug/L	EPA 200.8	2/22/14	ESTAFFORD1
7440-28-0	Thallium (Tl) ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/22/14	ESTAFFORD1
7440-32-6	Ti (Titanium) by ICP	10	<b>52</b>	ug/L	EPA 200.7	2/20/14	ESTAFFORD1
7440-62-2	V by ICP	25	<b>25 U</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7440-66-6	Zn by ICP	10	<b>10 U</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1

# Enrol CC

14w 1233835 TA

61 TA

## DIVISION OF WATER RESOURCES

### Surface Water Fieldsheet

COUNTY : Caswell  
 RIVER BASIN : Roanoke 04  
 REPORT TO : Winston-Salem Regional Office  
 Other :  
 COLLECTOR(S) : J. IVEY & S. KIMMELT

PRIORITY  
 AMBIENT  QA  
 COMPLIANCE  CHAIN OF CUSTODY  
 EMERGENCY

VISIT ID  
 7

SAMPLE TYPE  
 STREAM  EFFLUENT  
 LAKE  INFLUENT  
 ESTUARY

4

Lab Number : A204860 TA  
 Date Received : 2-9-21  
 Time Received : 1433  
 Received By : TK  
 Data Released :  
 Date Reported :

Estimated BOD Range:

Station Location: Dan R. at Milton

Seed: \_\_\_\_\_


Chlorinated: \_\_\_\_\_

Remarks: Dissolved Metals **SAMPLE**

Station #/Location Code	Date Begin (yy/mm/dd)	Date End (yy/mm/dd)	Time Begin	Time End	Depth - DM, DB, DBM	Value Type - A, H, L	Composite-T, S, B	Sample Type
N3500000	19/12/9		1250					G

BOD 310	mg/L	Chloride 940	mg/L	NH3 as N 610	mg/L	Li-Lithium 1132	ug/L
COD High 340	mg/L			TKN an N 625	mg/L	Mg- Magnesium 927	mg/L
COD Low 335	mg/L	Chlorophyll a EPA 445.0 modified option	ug/L	NO2 plus NO3 as N 630	mg/L	Mn-Manganese 1055	ug/L
Coliform: MF Fecal 31616	/100ml			P: Total as P 665	mg/L	<input checked="" type="checkbox"/> Na- Sodium 929	mg/L
Coliform: MF Total 31504	/100ml	Color: True 80	c.u.	PO4 as P 70507	mg/L	<input checked="" type="checkbox"/> Arsenic: Total 1002	ug/L
Coliform: tube Fecal 31615	/100ml	Color: pH 7.6 82 pH=	c.u.	P: Dissolved as P 666	mg/L	<input checked="" type="checkbox"/> Se- Selenium 1147	ug/L
Coliform: Fecal Strep 31673	/100ml	Color: pH 7.6 82	c.u.	<input checked="" type="checkbox"/> K- Potassium	mg/L	<input checked="" type="checkbox"/> Hg- Mercury 11200 NS	ug/L
Residue: Total 500	mg/L	Cyanide 720	mg/L	<input checked="" type="checkbox"/> Cd- Cadmium 1027	ug/L	Ba-Barium	ug/L
Volatile 505	mg/L	Fluoride 951	mg/L	<input checked="" type="checkbox"/> Cr- Chromium: Total 1034	ug/L	Organochlorine Pesticides	
Fixed 510	mg/L	Formaldehyde 71880	mg/L	<input checked="" type="checkbox"/> Cu- Copper 1042	ug/L	Organophosphorus Pesticides	
Residue: Suspended 530	mg/L	Grease and Oils 556	mg/L	<input checked="" type="checkbox"/> Ni- Nickel 1067	ug/L	Organonitrogen Pesticides	
Volatile 535	mg/L	Hardness Total 900	mg/L	<input checked="" type="checkbox"/> Pb- Lead 1051	ug/L	Acid Herbicides	
Fixed 540	mg/L	Specific Cond. 95	umhos/cm	<input checked="" type="checkbox"/> Zn- Zinc 1092	ug/L		
pH 403	units	MBAS 38260	mg/L	<del>Vanadium</del> NS	ug/L	Base/Neutral&Acid Extractable Organics	
Acidity to pH 4.5 436	mg/L	Phenols 32730	ug/L	<input checked="" type="checkbox"/> Ag- Silver 1077	ug/L	TPH Diesel Range	
Acidity to pH 8.3 435	mg/L	Sulfate 945	mg/L	Al- Aluminum 1105	ug/L		
Alkalinity to pH 8.3 415	mg/L	Sulfide 745	mg/L	Be- Beryllium 1012	ug/L	Purgeable Organics (VOA bottle req'd)	
Alkalinity to pH 4.5 410	mg/L	Boron		<input checked="" type="checkbox"/> Ca- Calcium 916	mg/L	TPH Gasoline Range	
TOC 680	mg/L	Tannin & Lignin	ug/L	<input checked="" type="checkbox"/> Co- Cobalt 1037 NS	ug/L	TPH/BTEX Gasoline Range	
Turbidity 76	NTU	Hexavalent Chromium	ug/L	<input checked="" type="checkbox"/> Fe- Iron 1045	ug/L	Phytoplankton	
Coliform Total Tube	/100 ml	Bicarbonate	mg/L	Mo-Molybdenum	ug/L		
		Carbonate	mg/L	Sb-Antimony	ug/L		
		Total Dissolved Solids	mg/L	Sn-Tin	ug/L		
				Tl-Thallium	ug/L		
				Ti-Titanium	ug/L		
				Hg-1631	ng/L	Temperature on arrival (°C):	58

COMMENTS :

County:	<b>CASWELL</b>	 <b>Final Report</b>	Sample ID:	<b>AC04861</b>
River Basin:	<b>ROA04</b>		PO Number #	<b>14W12335</b>
Report To:	<b>WSROSP</b>		Date Received:	<b>02/09/2014</b>
Collector:	<b>J IVERSON</b>		Time Received:	<b>14:33</b>
Region:	<b>WSRO</b>		Labworks LoginID	<b>TASCENZO</b>
Sample Matrix:	<b>SURFACEWATER</b>		Final Report Date:	<b>2/25/14</b>
Loc. Type:	<b>RIVER/STREAM</b>		Report Print Date:	<b>02/26/2014</b>
Emergency Yes/No			VisitID	<input type="text" value="7"/>
COC Yes/No	<b>Yes</b>		<b>Loc. Descr.: DAN RIV AT NC 57 AT VA LINE AT MILTON</b>	
Location ID: <b>N3500000</b>			Collect Date: <b>02/09/2014</b>	Collect Time: <b>12:50</b>

**If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.**

CAS #	Analyte Name	PQL	Result/ Qualifier	Units	Method Reference	Analysis Date	Validated by
<b>LAB</b>							
	Sample temperature at receipt by lab		<b>0.8</b>	°C		2/10/14	TASCENZO
<b>MET</b>							
7440-38-2	As- Dissolved by ICPMS Arsenic	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7440-41-7	Be-Beryllium Dissolved by ICP	5.0	<b>5.0 U</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7440-70-2	Ca-Dissolved Calcium by ICP	0.10	<b>8.2</b>	mg/L	EPA 200.7	2/17/14	ESTAFFORD1
7440-43-9	Cd- Dissolved Cadmium by ICPMS	0.50	<b>0.50 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7440-47-3	Cr- Dissolved Chromium by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7440-50-8	Cu- Dissolved Copper by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7439-89-6	Fe- Dissolved Iron by ICP	50	<b>120</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7440-09-7	K-Dissolved Potassium by ICP	0.10	<b>1.8</b>	mg/L	EPA 200.7	2/17/14	ESTAFFORD1
7439-95-4	Mg- Dissolved Magnesium by ICP	0.10	<b>3.0</b>	mg/L	EPA 200.7	2/17/14	ESTAFFORD1
7439-96-5	Dissolved Mn by ICP	10	<b>31</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7440-23-5	Na-Dissolved Sodium by ICP	0.10	<b>9.0</b>	mg/L	EPA 200.7	2/17/14	ESTAFFORD1
7440-02-0	Ni-Dissolved Nickel by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7439-92-1	Pb-Dissolved Lead by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7782-49-2	Se-Dissolved Selenium by ICPMS	5.0	<b>5.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7440-22-4	Ag-Dissolved Silver by ICPMS	1.0	<b>1.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7429-90-5	Al - Dissolved Aluminum by ICP	50	<b>57</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7429-90-5	B by ICP	50	<b>100</b>	ug/L	EPA 200.7	2/17/14	ESTAFFORD1
7440-38-3	Ba- Dissolved Barium by ICP	10	<b>27</b>	ug/L	EPA 200.7	2/17/14	ESTAFFORD1
7440-48-4	Cobalt Dissolved by ICP	50	<b>50 U</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7439-97-6	Hg 245.1 Dissolved	0.2	<b>0.20 U</b>	ug/L	EPA 245.1	2/19/14	ESTAFFORD1
7439-93-2	Li DISSOLVED ICP	25	<b>25 U</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7439-98-7	Mo Dissolved by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	2/22/14	ESTAFFORD1
7440-36-0	Sb Dissolved by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	2/22/14	ESTAFFORD1
7440-31-5	Sn Dissolved by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	2/22/14	ESTAFFORD1
	Strontium Dissolved by ICPMS	10	<b>91</b>	ug/L	EPA 200.8	2/22/14	ESTAFFORD1
7440-28-0	Thallium (Tl) Dissolved by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/22/14	ESTAFFORD1
7440-32-6	Ti (Titanium) Dissolved by ICP	10	<b>10 U</b>	ug/L	EPA 200.7	2/20/14	ESTAFFORD1
7440-62-2	V Dissolved by ICP	25	<b>25 U</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1

NC DWR Laboratory Section Results

Location ID: N3500000

Sample ID: AC04861

Collect Date: 02/09/2014

Collect Time: 12:50

**MET**

<u>CAS #</u>	<u>Analyte Name</u>	<u>PQL</u>	<u>Result/ Qualifier</u>	<u>Units</u>	<u>Method Reference</u>	<u>Analysis Date</u>	<u>Validated by</u>
7440-66-6	Zn-Dissolved Zinc by ICP	10	10 U	ug/L	EPA 200.7	2/18/14	ESTAFFORD1

*Final 4/20/14*

*HW 12336  
mp 2.10.14*

DIVISION OF WATER RESOURCES

Surface Water Fieldsheet

14412743

Lab Number:	AL04869
Date Received:	2-9-2014
Time Received:	1:31 PM
Received By:	M
Data Released:	
Date Reported:	

COUNTY : Caswell  
 RIVER BASIN : Roanoke 04  
 REPORT TO : Winston-Salem Regional Office  
 Other :  
 COLLECTOR(S) : J. P. C. [Signature]

PRIORITY  
 AMBIENT  QA  
 COMPLIANCE  CHAIN OF CUSTODY  
 EMERGENCY VISIT ID [Redacted]

SAMPLE TYPE  
 STREAM  EFFLUENT  
 LAKE  INFLUENT  
 ESTUARY

4

Estimated BOD Range:

Station Location: Dan R. at Milton

Seed: \_\_\_\_\_ Chlorinated: \_\_\_\_\_

Remarks: (*4731 Hg, 56*) Mercury sample

Station #/Location Code	Date Begin (yy/mm/dd)	Date End (yy/mm/dd)	Time Begin	Time End	Depth - DM, DB, DBM	Value Type - A, H, L	Composite-T, S, B	Sample Type
N3500000	14/2/9		12:45					G

BOD 310	mg/L	Chloride 940	mg/L	NH3 as N 610	mg/L	Li-Lithium 1132	ug/L
COD High 340	mg/L			TKN an N 625	mg/L	Mg- Magnesium 927	mg/L
COD Low 335	mg/L	Chlorophyll a EPA 445.0 modified option	ug/L	NO2 plus NO3 as N 630	mg/L	Mn-Manganese 1055	ug/L
Coliform: MF Fecal 31616	/100ml			P: Total as P 665	mg/L	Na- Sodium 929	mg/L
Coliform: MF Total 31504	/100ml	Color: True 80	c.u.	PO4 as P 70507	mg/L	Arsenic: Total 1002	ug/L
Coliform: tube Fecal 31615	/100ml	Color: (pH ) 83 pH=	c.u.	P: Dissolved as P 666	mg/L	Se- Selenium 1147	ug/L
Coliform: Fecal Strep 31673	/100ml	Color: pH 7.6 82	c.u.	K-Potassium	mg/L	Hg- Mercury 71900	ug/L
Residue: Total 500	mg/L	Cyanide 720	mg/L	Cd- Cadmium 1027	ug/L	Ba-Barium	ug/L
Volatile 505	mg/L	Fluoride 951	mg/L	Cr-Chromium: Total 1034	ug/L	Organochlorine Pesticides	
Fixed 510	mg/L	Formaldehyde 71880	mg/L	Cu- Copper 1042	ug/L	Organophosphorus Pesticides	
Residue: Suspended 530	mg/L	Grease and Oils 556	mg/L	Ni-Nickel 1067	ug/L	Organonitrogen Pesticides	
Volatile 535	mg/L	Hardness Total 900	mg/L	Pb- Lead 1051	ug/L	Acid Herbicides	
Fixed 540	mg/L	Specific Cond. 95	umhos/cm	Zn- Zinc 1092	ug/L		
pH 403	units	MBAS 38260	mg/L	V-Vanadium	ug/L	Base/Neutral&Acid Extractable Organics	
Acidity to pH 4.5 436	mg/L	Phenols 32730	ug/L	Ag- Silver 1077	ug/L	TPH Diesel Range	
Acidity to pH 8.3 435	mg/L	Sulfate 945	mg/L	Al- Aluminum 1105	ug/L		
Alkalinity to pH 8.3 415	mg/L	Sulfide 745	mg/L	Be- Beryllium 1012	ug/L	Purgeable Organics (VOA bottle req'd)	
Alkalinity to pH 4.5 410	mg/L	Boron		Ca- Calcium 916	mg/L	TPH Gasoline Range	
TOC 680	mg/L	Tannin & Lignin	ug/L	Co- Cobalt 1037	ug/L	TPH/BTEX Gasoline Range	
Turbidity 76	NTU	Hexavalent Chromium	ug/L	Fe- Iron 1045	ug/L	Phytoplankton	
Coliform Total Tube	/100 ml	Bicarbonate	mg/L	Mo-Molybdenum	ug/L		
		Carbonate	mg/L	Sb-Antimony	ug/L		
		Total Dissolved Solids	mg/L	Sn-Tin	ug/L		
				Tl-Thallium	ug/L		
				Ti-Titanium	ug/L		
				X Hg-1631	ng/L	Temperature on arrival (°C):	08

COMMENTS: *5609494*

County: ROCKINGHAM  
 River Basin: ROA1  
 Report To: WSROSP  
 Collector: J IVERSON  
 Region: WSRO  
 Sample Matrix: SURFACEWATER  
 Loc. Type: STREAM  
 Emergency Yes/No: YES  
 COC Yes/No: Yes



Sample ID: **AC04869**  
 PO Number #: **14W12343**  
 Date Received: **02/09/2014**  
 Time Received: **14:33**  
 Labworks LoginID: **TASCENZO**  
 Final Report Date: **2/20/14**  
 Report Print Date: **02/20/2014**

**Final Report**VisitID Loc. Descr.: DAN R. AT MILTON

Location ID: <b>4P079NC0003468ASHDAN</b>	Collect Date: <b>02/09/2014</b>	Collect Time: <b>12:45</b>	Sample Depth
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***If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.***

<u>CAS #</u>	<u>Analyte Name</u>	<u>PQL</u>	<u>Result/ Qualifier</u>	<u>Units</u>	<u>Method Reference</u>	<u>Analysis Date</u>	<u>Validated by</u>
<b>MET</b>							
7439-97-6	Hg 1631	1.00	<b>2.69</b>	ng/L	EPA 1631E	2/19/14	ESTAFFORD1



Ce / Emer 6

14W12357

DIVISION OF WATER RESOURCES

Surface Water Fieldsheet

COUNTY : Caswell
RIVER BASIN : Roanoke 04
REPORT TO : Winston-Salem Regional Office
Other :
COLLECTOR(S) : S. Wang / S. Berry

PRIORITY
[ ] AMBIENT [ ] QA
[ ] COMPLIANCE [X] CHAIN OF CUSTODY
[X] EMERGENCY VISIT ID 03

SAMPLE TYPE
[X] STREAM [ ] EFFLUENT
[ ] LAKE [ ] INFLUENT
[ ] ESTUARY 4

Lab Number A04883
Date Received: 2-14-14
Time Received: 1:25 PM
Received By: M
Data Released:
Date Reported:

Estimated BOD Range:

Station Location: Dan R. at Milton

Seed:

Chlorinated:


Remarks:

Table with 8 columns: Station #/Location Code, Date Begin, Date End, Time Begin, Time End, Depth, Value Type, Composite, Sample Type. Row 1: N3500000, 2/10/14, 2/10/14, 14:57, 15:15, etc.

Main data table with 4 columns of parameters and units. Includes items like BOD 310, Chloride 940, NH3 as N 610, etc.

COMMENTS:

County:	<b>CASWELL</b>	Sample ID:	<b>AC04883</b>
River Basin:	<b>ROA04</b>	PO Number #:	<b>14W12357</b>
Report To:	<b>WSROSP</b>	Date Received:	<b>02/10/2014</b>
Collector:	<b>S WANG</b>	Time Received:	<b>17:15</b>
Region:	<b>WSRO</b>	Labworks LoginID:	<b>TASCENZO</b>
Sample Matrix:	<b>SURFACEWATER</b>	Final Report Date:	<b>2/25/14</b>
Loc. Type:	<b>RIVER/STREAM</b>	Report Print Date:	<b>02/26/2014</b>
Emergency Yes/No:			
COC Yes/No:	<b>Yes</b>		



**Final Report**

VisitID

Loc. Descr.: **DAN RIV AT NC 57 AT VA LINE AT MILTON**

Location ID: <b>N3500000</b>	Collect Date: <b>02/10/2014</b>	Collect Time: <b>14:57</b>	Sample Depth
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**If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.**

CAS #	Analyte Name	PQL	Result/ Qualifier	Units	Method Reference	Analysis Date	Validated by
<b>LAB</b>							
	Sample temperature at receipt by lab		<b>0.6</b>	°C		2/11/14	MSWIFT
<b>MIC</b>							
	Turbidity	1.0	<b>11</b>	NTU	APHA2130B-20th	2/11/14	ESTAFFORD1
<b>WET</b>							
	Residue_Suspended in liquid	6.2	<b>12</b>	mg/L	SM 2540 D-1997	2/12/14	CGREEN
	Ion Chromatography		<u>    </u> <b>_TITLE_</b>	mg/L	EPA 300.0 rev2.1	2/11/14	CGREEN
	Chloride	1.0	<b>12</b>	mg/L	EPA 300.0 rev2.1	2/11/14	CGREEN
	Fluoride	0.4	<b>0.4 U</b>	mg/L	EPA 300.0 rev2.1	2/11/14	CGREEN
	Sulfate	2.0	<b>6.4</b>	mg/L	EPA 300.0 rev2.1	2/11/14	CGREEN
	Total Dissolved Solids in liquid	12	<b>70</b>	mg/L	SM 2540 C-1997	2/12/14	CGREEN
<b>NUT</b>							
	NH3 as N in liquid	0.02	<b>0.04</b>	mg/L as N	EPA 350.1 REV 2	2/11/14	CGREEN
	Total Kjeldahl N as N in liquid	0.2	<b>0.21</b>	mg/L as N	EPA 351.2 REV 2	2/11/14	CGREEN
	NO2+NO3 as N in liquid	0.02	<b>0.32</b>	mg/L as N	EPA 353.2 REV 2	2/11/14	CGREEN
	Phosphorus_total as P in liquid	0.02	<b>0.03</b>	mg/L as P	EPA 365.1 REV 2	2/11/14	CGREEN
<b>MET</b>							
7440-22-4	Ag by ICPMS	1.0	<b>1.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7429-90-5	Al by ICP	50	<b>550</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7440-36-0	Antimony by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	2/22/14	ESTAFFORD1
7440-38-2	As by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7429-90-5	B by ICP	50	<b>120</b>	ug/L	EPA 200.7	2/17/14	ESTAFFORD1
7440-38-3	Ba by ICP	10	<b>33</b>	ug/L	EPA 200.7	2/17/14	ESTAFFORD1
7440-41-7	Be by ICP	5.0	<b>5.0 U</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7440-70-2	Ca by ICP	0.10	<b>8.4</b>	mg/L	EPA 200.7	2/17/14	ESTAFFORD1
7440-43-9	Cd by ICPMS	0.50	<b>0.50 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7440-48-4	Cobalt by ICP	50	<b>50 U</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7440-47-3	Cr by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7440-50-8	Cu by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7439-89-6	Fe by ICP	50	<b>1000</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7439-97-6	Hg 245.1	0.2	<b>0.20 U</b>	ug/L	EPA 245.1	2/19/14	ESTAFFORD1

NC DW/R Laboratory Section Results

Location ID: N3500000

Sample ID: AC04883

Collect Date: 02/10/2014

Collect Time: 14:57

**MET**

<u>CAS #</u>	<u>Analyte Name</u>	<u>PQL</u>	<u>Result/ Qualifier</u>	<u>Units</u>	<u>Method Reference</u>	<u>Analysis Date</u>	<u>Validated by</u>
7440-09-7	K by ICP	0.10	<b>1.8</b>	mg/L	EPA 200.7	2/17/14	ESTAFFORD1
7439-93-2	Li ICP	25	<b>25 U</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7439-95-4	Mg by ICP	0.10	<b>3.1</b>	mg/L	EPA 200.7	2/17/14	ESTAFFORD1
7439-96-5	Mn by ICP	10	<b>41</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7439-98-7	Mo by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	2/22/14	ESTAFFORD1
7440-23-5	Na by ICP	0.10	<b>6.9</b>	mg/L	EPA 200.7	2/17/14	ESTAFFORD1
7440-02-0	Ni by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7439-92-1	Pb by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7782-49-2	Se by ICPMS	5.0	<b>5.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7440-31-5	Sn by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	2/22/14	ESTAFFORD1
7440-24-6	Sr by ICPMS	10	<b>72</b>	ug/L	EPA 200.8	2/22/14	ESTAFFORD1
7440-28-0	Thallium (Tl) ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/22/14	ESTAFFORD1
7440-32-6	Ti (Titanium) by ICP	10	<b>39</b>	ug/L	EPA 200.7	2/20/14	ESTAFFORD1
7440-62-2	V by ICP	25	<b>25 U</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7440-66-6	Zn by ICP	10	<b>10 U</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1

LC/6206

14W12358

DIVISION OF WATER RESOURCES

Surface Water Fieldsheet

COUNTY : Caswell
RIVER BASIN : Roanoke 04
REPORT TO : Winston-Salem Regional Office
Other :
COLLECTOR(S) : S Wamy / S Berry

PRIORITY
[ ] AMBIENT [ ] QA
[ ] COMPLIANCE [X] CHAIN OF CUSTODY
[X] EMERGENCY VISIT ID: 03

SAMPLE TYPE
[X] STREAM [ ] EFFLUENT
[ ] LAKE [ ] INFLUENT
[ ] ESTUARY

Lab Number AC 4884
Date Received : 2-10-14
Time Received : 1:25
Received By : MB
Data Released :
Date Reported :

4

Estimated BOD Range:

Station Location: Dan R. at Milton

Seed: Chlorinated:

Remarks: Dissolved Metals

Table with 8 columns: Station #/Location Code, Date Begin, Date End, Time Begin, Time End, Depth - DM, DB, DBM, Value Type - A, H, L, Composite-T, S, B, Sample Type

Table with 2 columns: Parameter Name, Unit

Table with 2 columns: Parameter Name, Unit

Table with 2 columns: Parameter Name, Unit

Table with 2 columns: Parameter Name, Unit

COMMENTS:

County:	<b>CASWELL</b>	Sample ID:	<b>AC04884</b>
River Basin:	<b>ROA04</b>	PO Number #:	<b>14W12358</b>
Report To:	<b>WSROSP</b>	Date Received:	<b>02/10/2014</b>
Collector:	<b>S WANG</b>	Time Received:	<b>17:15</b>
Region:	<b>WSRO</b>	Labworks LoginID:	<b>TASCENZO</b>
Sample Matrix:	<b>SURFACEWATER</b>	Final Report Date:	<b>2/25/14</b>
Loc. Type:	<b>RIVER/STREAM</b>	Report Print Date:	<b>02/26/2014</b>
Emergency Yes/No:			
COC Yes/No:	<b>Yes</b>		

**Final Report**

VisitID

Loc. Descr.: **DAN RIV AT NC 57 AT VA LINE AT MILTON**

Location ID: <b>N3500000</b>	Collect Date: <b>02/10/2014</b>	Collect Time: <b>14:57</b>	Sample Depth
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**If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.**

CAS #	Analyte Name	PQL	Result/ Qualifier	Units	Method Reference	Analysis Date	Validated by
<b>LAB</b>							
	Sample temperature at receipt by lab		<b>0.6</b>	°C		2/11/14	MSWIFT
<b>MET</b>							
7440-38-2	As- Dissolved by ICPMS Arsenic	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7440-41-7	Be-Beryllium Dissolved by ICP	5.0	<b>5.0 U</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7440-70-2	Ca-Dissolved Calcium by ICP	0.10	<b>8.1</b>	mg/L	EPA 200.7	2/17/14	ESTAFFORD1
7440-43-9	Cd- Dissolved Cadmium by ICPMS	0.50	<b>0.50 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7440-47-3	Cr- Dissolved Chromium by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7440-50-8	Cu- Dissolved Copper by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7439-89-6	Fe- Dissolved Iron by ICP	50	<b>72</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7440-09-7	K-Dissolved Potassium by ICP	0.10	<b>1.7</b>	mg/L	EPA 200.7	2/17/14	ESTAFFORD1
7439-95-4	Mg- Dissolved Magnesium by ICP	0.10	<b>3.0</b>	mg/L	EPA 200.7	2/17/14	ESTAFFORD1
7439-96-5	Dissolved Mn by ICP	10	<b>26</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7440-23-5	Na-Dissolved Sodium by ICP	0.10	<b>6.9</b>	mg/L	EPA 200.7	2/17/14	ESTAFFORD1
7440-02-0	Ni-Dissolved Nickel by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7439-92-1	Pb-Dissolved Lead by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7782-49-2	Se-Dissolved Selenium by ICPMS	5.0	<b>5.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7440-22-4	Ag-Dissolved Silver by ICPMS	1.0	<b>1.0 U</b>	ug/L	EPA 200.8	2/17/14	ESTAFFORD1
7429-90-5	Al - Dissolved Aluminum by ICP	50	<b>50 U</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7429-90-5	B by ICP	50	<b>120</b>	ug/L	EPA 200.7	2/17/14	ESTAFFORD1
7440-38-3	Ba- Dissolved Barium by ICP	10	<b>26</b>	ug/L	EPA 200.7	2/17/14	ESTAFFORD1
7440-48-4	Cobalt Dissolved by ICP	50	<b>50 U</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7439-97-6	Hg 245.1 Dissolved	0.2	<b>0.20 U</b>	ug/L	EPA 245.1	2/19/14	ESTAFFORD1
7439-93-2	Li DISSOLVED ICP	25	<b>25 U</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1
7439-98-7	Mo Dissolved by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	2/22/14	ESTAFFORD1
7440-36-0	Sb Dissolved by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	2/22/14	ESTAFFORD1
7440-31-5	Sn Dissolved by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	2/22/14	ESTAFFORD1
	Stronium Dissolved by ICPMS	10	<b>71</b>	ug/L	EPA 200.8	2/22/14	ESTAFFORD1
7440-28-0	Thallium (Tl) Dissolved by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/22/14	ESTAFFORD1
7440-32-6	Ti (Titanium) Dissolved by ICP	10	<b>10 U</b>	ug/L	EPA 200.7	2/20/14	ESTAFFORD1
7440-62-2	V Dissolved by ICP	25	<b>25 U</b>	ug/L	EPA 200.7	2/18/14	ESTAFFORD1

NC DWR Laboratory Section Results

Location ID: N3500000

Sample ID: AC04884

Collect Date: 02/10/2014

Collect Time: 14:57

**MET**

<u>CAS #</u>	<u>Analyte Name</u>	<u>PQL</u>	<u>Result/ Qualifier</u>	<u>Units</u>	<u>Method Reference</u>	<u>Analysis Date</u>	<u>Validated by</u>
7440-66-6	Zn-Dissolved Zinc by ICP	10	10 U	ug/L	EPA 200.7	2/18/14	ESTAFFORD1

C. C. Enab

MW12399

DIVISION OF WATER RESOURCES

Surface Water Fieldsheet

COUNTY : Caswell
RIVER BASIN : Roanoke 04

REPORT TO : Winston-Salem Regional Office

Other :
COLLECTOR(S) : S. Wang / S. Berni

PRIORITY
[ ] AMBIENT [ ] QA
[ ] COMPLIANCE [X] CHAIN OF CUSTODY
[X] EMERGENCY VISIT ID 123

SAMPLE TYPE
[X] STREAM [ ] EFFLUENT
[ ] LAKE [ ] INFLUENT
[ ] ESTUARY 4

Lab Number: A004928
Date Received: 2/10/14
Time Received: 8:30 AM
Received By: [Signature]
Data Released:
Date Reported:

Estimated BOD Range:

Station Location: Dan R. at Milton

Seed: Chlorinated:

Remarks: 4/11/14 Hg70 Mercury sample

Table with 8 columns: Station #/Location Code, Date Begin, Date End, Time Begin, Time End, Depth, Value Type, Composite, Sample Type. Row 1: N3500000, 2/10/14, 2/10/14, 14:57, 15:15, Depth - DM, DB, DBM, Value Type - A, H, L, Composite-T, S, B, Sample Type G.

Main data table with 4 columns of parameters and units. Includes BOD 310, COD High/Low, Coliform, Residue, pH, Acidity, Alkalinity, TOC, Turbidity, Chloride, Chlorophyll, Color, pH, Grease, Hardness, Specific Cond, MBAS, Phenols, Sulfate, Sulfide, Boron, Tannin, Hexavalent Chromium, Bicarbonate, Carbonate, Total Dissolved Solids, NH3, TKN, NO2, P, PO4, K, Cd, Cr, Cu, Ni, Pb, Zn, V, Ag, Al, Be, Ca, Co, Fe, Mo, Sb, Sn, Tl, Ti, Hg-1631, and various pesticides.

COMMENTS: 7E01Hg S

County: CASWELL  
 River Basin: ROA04  
 Report To: WSROSP  
 Collector: S WANG  
 Region: WSRO  
 Sample Matrix: SURFACEWATER  
 Loc. Type: RIVER/STREAM  
 Emergency Yes/No: YES  
 COC Yes/No: Yes



Sample ID: **AC04928**  
 PO Number #: **14W12399**  
 Date Received: **02/10/2014**  
 Time Received: **17:15**  
 Labworks LoginID: **MSWIFT**  
 Final Report Date: **2/20/14**  
 Report Print Date: **02/20/2014**

**Final Report**VisitID Loc. Descr.: DAN R at Milton

Location ID: <b>N3500000</b>	Collect Date: <b>02/10/2014</b>	Collect Time: <b>14:57</b>	Sample Depth
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***If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.***

<u>CAS #</u>	<u>Analyte Name</u>	<u>PQL</u>	<u>Result/ Qualifier</u>	<u>Units</u>	<u>Method Reference</u>	<u>Analysis Date</u>	<u>Validated by</u>
<b>MET</b>							
7439-97-6	Hg 1631	1.00	<b>2.32</b>	ng/L	EPA 1631E	2/19/14	ESTAFFORD1



CAC/Encls

14W124486  
mp

DIVISION OF WATER RESOURCES

Surface Water Fieldsheet

COUNTY : Caswell  
 RIVER BASIN : Roanoke 04  
 REPORT TO : Winston-Salem Regional Office  
 Other :  
 COLLECTOR(S) : J. JEFFERSON

PRIORITY  
 AMBIENT  QA  
 COMPLIANCE  CHAIN OF CUSTODY  
 EMERGENCY

VISIT ID

SAMPLE TYPE  
 STREAM  EFFLUENT  
 LAKE  INFLUENT  
 ESTUARY

4

Lab Number : AC04975  
 Date Received : 2-12-14  
 Time Received : 08:26  
 Received By : mp  
 Data Released :  
 Date Reported :

Estimated BOD Range:

Station Location: Dan R. at Milton N3500000


Seed: \_\_\_\_\_ Chlorinated: \_\_\_\_\_

Remarks: \_\_\_\_\_

Station #/Location Code	Date Begin (yy/mm/dd)	Date End (yy/mm/dd)	Time Begin	Time End	Depth - DM, DB, DBM	Value Type - A, H, L	Composite-T, S, B	Sample Type
N3500000	<u>2/12/14</u>		<u>1330</u>					G

BOD 310	mg/L	<input checked="" type="checkbox"/> Chloride 940	mg/L	<input checked="" type="checkbox"/> NH3 as N 610	mg/L	<input checked="" type="checkbox"/> Li-Lithium 1132	ug/L
COD High 340	mg/L			<input checked="" type="checkbox"/> TKN an N 625	mg/L	<input checked="" type="checkbox"/> Mg- Magnesium 927	mg/L
COD Low 335	mg/L	Chlorophyll a EPA 445.0 modified option	ug/L	<input checked="" type="checkbox"/> NO2 plus NO3 as N 630	mg/L	<input checked="" type="checkbox"/> Mn-Manganese 1055	ug/L
Coliform: MF Fecal 31616	/100ml			<input checked="" type="checkbox"/> P: Total as P 665	mg/L	<input checked="" type="checkbox"/> Na- Sodium 929	mg/L
Coliform: MF Total 31504	/100ml	Color: True 80	c.u.	<input checked="" type="checkbox"/> PO4 as P 70507	mg/L	<input checked="" type="checkbox"/> Arsenic: Total 1002	ug/L
Coliform: tube Fecal 31615	/100ml	Color: (pH) 83 pH=	c.u.	<input checked="" type="checkbox"/> P: Dissolved as P 666	mg/L	<input checked="" type="checkbox"/> Se- Selenium 1147	ug/L
Coliform: Fecal Strep 31673	/100ml	Color: pH 7.6 82	c.u.	<input checked="" type="checkbox"/> K- Potassium	mg/L	<input checked="" type="checkbox"/> Hg- Mercury 71900	ug/L
<input checked="" type="checkbox"/> Residue: Total 500	mg/L	Cyanide 720	mg/L	<input checked="" type="checkbox"/> Cd- Cadmium 1027	ug/L	<input checked="" type="checkbox"/> Ba-Barium	ug/L
Volatile 505	mg/L	<input checked="" type="checkbox"/> Fluoride 951	mg/L	<input checked="" type="checkbox"/> Cr-Chromium: Total 1034	ug/L		Organochlorine Pesticides
Fixed 510	mg/L	Formaldehyde 71880	mg/L	<input checked="" type="checkbox"/> Cu- Copper 1042	ug/L		Organophosphorus Pesticides
<input checked="" type="checkbox"/> Residue: Suspended 530	mg/L	Grease and Oils 556	mg/L	<input checked="" type="checkbox"/> Ni-Nickel 1067	ug/L		Organonitrogen Pesticides
Volatile 535	mg/L	Hardness Total 900	mg/L	<input checked="" type="checkbox"/> Pb- Lead 1051	ug/L		Acid Herbicides
Fixed 540	mg/L	Specific Cond. 95	umhos/cm	<input checked="" type="checkbox"/> Zn- Zinc 1092	ug/L		
pH 403	units	MBAS 38260	mg/L	<input checked="" type="checkbox"/> V- Vanadium	ug/L		Base/Neutral&Acid Extractable Organics
Acidity to pH 4.5 436	mg/L	Phenols 32730	ug/L	<input checked="" type="checkbox"/> Ag- Silver 1077	ug/L		TPH Diesel Range
Acidity to pH 8.3 435	mg/L	<input checked="" type="checkbox"/> Sulfate 945	mg/L	<input checked="" type="checkbox"/> Al- Aluminum 1105	ug/L		
Alkalinity to pH 8.3 415	mg/L	Sulfide 745	mg/L	<input checked="" type="checkbox"/> Be- Beryllium 1012	ug/L		Purgeable Organics (VOA bottle req'd)
Alkalinity to pH 4.5 410	mg/L	Boron		<input checked="" type="checkbox"/> Ca- Calcium 916	mg/L		TPH Gasoline Range
TOC 680	mg/L	Tannin & Lignin	ug/L	<input checked="" type="checkbox"/> Co- Cobalt 1037	ug/L		TPH/BTEX Gasoline Range
<input checked="" type="checkbox"/> Turbidity 76	NTU	Hexavalent Chromium	ug/L	<input checked="" type="checkbox"/> Fe- Iron 1045	ug/L		Phytoplankton
Coliform Total Tube	/100 ml	Bicarbonate	mg/L	<input checked="" type="checkbox"/> Mo-Molybdenum	ug/L		
		Carbonate	mg/L	<input checked="" type="checkbox"/> Sb-Antimony	ug/L		
		<input checked="" type="checkbox"/> Total Dissolved Solids	mg/L	<input checked="" type="checkbox"/> Sn-Tin	ug/L		
				<input checked="" type="checkbox"/> Tl-Thallium	ug/L		
				<input checked="" type="checkbox"/> Ti-Titanium	ug/L		
				Hg-1631	ng/L		Temperature on arrival (°C): <u>3.2</u>

COMMENTS:

County: <b>CASWELL</b>	 <b>Final Report</b>	Sample ID: <b>AC04975</b>
River Basin: <b>ROA04</b>		PO Number #: <b>14W12446</b>
Report To: <b>WSROSP</b>		Date Received: <b>02/12/2014</b>
Collector: <b>J IVERSON</b>		Time Received: <b>08:26</b>
Region: <b>WSRO</b>		Labworks LoginID: <b>MSWIFT</b>
Sample Matrix: <b>SURFACEWATER</b>		Final Report Date: <b>2/27/14</b>
Loc. Type: <b>RIVER/STREAM</b>		Report Print Date: <b>02/27/2014</b>
Emergency Yes/No		VisitID
COC Yes/No		
Loc. Descr.: <b>DAN R. AT MILTON</b>		

Location ID: <b>N3500000</b>	Collect Date: <b>02/11/2014</b>	Collect Time: <b>13:30</b>	Sample Depth
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**If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.**

CAS #	Analyte Name	PQL	Result/ Qualifier	Units	Method Reference	Analysis Date	Validated by
<b>LAB</b>							
	Sample temperature at receipt by lab		<b>3.2</b>	°C		2/12/14	MSWIFT
<b>MIC</b>							
	Turbidity	1.0	<b>16</b>	NTU	APHA2130B-20th	2/12/14	ESTAFFORD1
<b>WET</b>							
	Residue_Total in liquid	12	<b>75</b>	mg/L	SM 2540 B-1997	2/14/14	CGREEN
	Residue_Suspended in liquid	6.2	<b>10</b>	mg/L	SM 2540 D-1997	2/12/14	CGREEN
	Ion Chromatography		<u>    </u> <b>TITLE</b> <u>    </u>	mg/L	EPA 300.0 rev2.1	2/11/14	CGREEN
	Chloride	1.0	<b>10</b>	mg/L	EPA 300.0 rev2.1	2/11/14	CGREEN
	Fluoride	0.4	<b>0.4 U</b>	mg/L	EPA 300.0 rev2.1	2/11/14	CGREEN
	Sulfate	2.0	<b>6.3</b>	mg/L	EPA 300.0 rev2.1	2/11/14	CGREEN
	Total Dissolved Solids in liquid	12	<b>73</b>	mg/L	SM 2540 C-1997	2/17/14	CGREEN
<b>NUT</b>							
	NH3 as N in liquid	0.02	<b>0.06</b>	mg/L as N	EPA 350.1 REV 2	2/17/14	CGREEN
	Total Kjeldahl N as N in liquid	0.2	<b>0.23</b>	mg/L as N	EPA 351.2 REV 2	2/18/14	CGREEN
	NO2+NO3 as N in liquid	0.02	<b>0.33</b>	mg/L as N	EPA 353.2 REV 2	2/17/14	CGREEN
	Phosphorus_total as P in liquid	0.02	<b>0.03</b>	mg/L as P	EPA 365.1 REV 2	2/17/14	CGREEN
<b>MET</b>							
7429-90-5	Al by ICP	50	<b>610</b>	ug/L	EPA 200.7	2/19/14	ESTAFFORD1
7440-38-2	As by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/25/14	ESTAFFORD1
7429-90-5	B by ICP	50	<b>120</b>	ug/L	EPA 200.7	2/20/14	ESTAFFORD1
7440-38-3	Ba by ICP	10	<b>32</b>	ug/L	EPA 200.7	2/19/14	ESTAFFORD1
7440-70-2	Ca by ICP	0.10	<b>8.6</b>	mg/L	EPA 200.7	2/19/14	ESTAFFORD1
7440-43-9	Cd by ICPMS	0.50	<b>0.50 U</b>	ug/L	EPA 200.8	2/25/14	ESTAFFORD1
7440-47-3	Cr by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	2/25/14	ESTAFFORD1
7440-50-8	Cu by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/25/14	ESTAFFORD1
7439-89-6	Fe by ICP	50	<b>920</b>	ug/L	EPA 200.7	2/19/14	ESTAFFORD1
7440-09-7	K by ICP	0.10	<b>1.7</b>	mg/L	EPA 200.7	2/19/14	ESTAFFORD1
7439-95-4	Mg by ICP	0.10	<b>3.1</b>	mg/L	EPA 200.7	2/19/14	ESTAFFORD1
7439-96-5	Mn by ICP	10	<b>41</b>	ug/L	EPA 200.7	2/19/14	ESTAFFORD1
7440-23-5	Na by ICP	0.10	<b>6.7</b>	mg/L	EPA 200.7	2/19/14	ESTAFFORD1
7440-02-0	Ni by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/25/14	ESTAFFORD1

Laboratory Section>> 1623 Mail Service Center, Raleigh, NC 27699-1623 (919) 733-3908

For a detailed description of the qualifier codes refer to [http://portal.ncdenr.org/web/wg/lab/staffinfo/techassist#Data\\_Qualifier\\_Codes](http://portal.ncdenr.org/web/wg/lab/staffinfo/techassist#Data_Qualifier_Codes) <<http://portal.ncdenr.org/web/wg/lab/staffinfo/techassist>>

NC DWR Laboratory Section Results

Location ID: N3500000

Sample ID: AC04975

Collect Date: 02/11/2014

Collect Time: 13:30

**MET**

<u>CAS #</u>	<u>Analyte Name</u>	<u>PQL</u>	<u>Result/ Qualifier</u>	<u>Units</u>	<u>Method Reference</u>	<u>Analysis Date</u>	<u>Validated by</u>
7439-92-1	Pb by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/25/14	ESTAFFORD1
7782-49-2	Se by ICPMS	5.0	<b>5.0 U</b>	ug/L	EPA 200.8	2/25/14	ESTAFFORD1
7440-24-6	Sr by ICPMS	10	<b>61</b>	ug/L	EPA 200.8	2/20/14	ESTAFFORD1
7440-28-0	Thallium (Tl) ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/25/14	ESTAFFORD1
7440-32-6	Ti (Titanium) by ICP	10	<b>21</b>	ug/L	EPA 200.7	2/20/14	ESTAFFORD1
7440-62-2	V by ICP	25	<b>25 U</b>	ug/L	EPA 200.7	2/19/14	ESTAFFORD1
7440-66-6	Zn by ICP	10	<b>10 U</b>	ug/L	EPA 200.7	2/19/14	ESTAFFORD1

GC / 6/26/14

DIVISION OF WATER RESOURCES

Surface Water Fieldsheet

14W1244317  
ms

COUNTY : Caswell  
 RIVER BASIN : Roanoke 04  
 REPORT TO : Winston-Salem Regional Office  
 Other :  
 COLLECTOR(S) : J. J. J. J. J.

PRIORITY  
 AMBIENT  QA  
 COMPLIANCE  CHAIN OF CUSTODY  
 EMERGENCY VISIT ID

SAMPLE TYPE  
 STREAM  EFFLUENT  
 LAKE  INFLUENT  
 ESTUARY

4

Lab Number : ACD4470  
 Date Received : 08-26-14  
 Time Received : 08:26  
 Received By : ms  
 Data Released :  
 Date Reported :

Estimated BOD Range:

Station Location: Dan R. at Milton N3500000


Seed: \_\_\_\_\_ Chlorinated: \_\_\_\_\_

Remarks: Dissolved Metals

Station #/Location Code	Date Begin (yy/mm/dd)	Date End (yy/mm/dd)	Time Begin	Time End	Depth - DM, DB, DBM	Value Type - A, H, L	Composite-T, S, B	Sample Type
N3500000	14/2/14		1330					G

BOD 310	mg/L	Chloride 940	mg/L	NH3 as N 610	mg/L	<input checked="" type="checkbox"/>	Li-Lithium 1132	ug/L	
COD High 340	mg/L			TKN an N 625	mg/L	<input checked="" type="checkbox"/>	Mg- Magnesium 927	mg/L	
COD Low 335	mg/L	Chlorophyll a EPA 445.0 modified option	ug/L	NO2 plus NO3 as N 630	mg/L	<input checked="" type="checkbox"/>	Mn-Manganese 1055	ug/L	
Coliform: MF Fecal 31616	/100ml			P: Total as P 665	mg/L	<input checked="" type="checkbox"/>	Na- Sodium 929	mg/L	
Coliform: MF Total 31504	/100ml	Color: True 80	c.u.	PO4 as P 70507	mg/L	<input checked="" type="checkbox"/>	Arsenic: Total 1002	ug/L	
Coliform: tube Fecal 31615	/100ml	Color: (pH) 83 pH=	c.u.	P: Dissolved as P 666	mg/L	<input checked="" type="checkbox"/>	Se- Selenium 1147	ug/L	
Coliform: Fecal Strep 31673	/100ml	Color: pH 7.6 82	c.u.	K- Potassium	mg/L	<input checked="" type="checkbox"/>	Hg- Mercury 71900	ug/L	
Residue: Total 500	mg/L	Cyanide 720	mg/L	<input checked="" type="checkbox"/>	Cd- Cadmium 1027	ug/L	<input checked="" type="checkbox"/>	Ba-Barium	ug/L
Volatile 505	mg/L	Fluoride 951	mg/L	<input checked="" type="checkbox"/>	Cr-Chromium: Total 1034	ug/L		Organochlorine Pesticides	
Fixed 510	mg/L	Formaldehyde 71880	mg/L	<input checked="" type="checkbox"/>	Cu- Copper 1042	ug/L		Organophosphorus Pesticides	
Residue: Suspended 530	mg/L	Grease and Oils 556	mg/L	<input checked="" type="checkbox"/>	Ni-Nickel 1067	ug/L		Organonitrogen Pesticides	
Volatile 535	mg/L	Hardness Total 900	mg/L	<input checked="" type="checkbox"/>	Pb- Lead 1051	ug/L		Acid Herbicides	
Fixed 540	mg/L	Specific Cond. 95	umhos/cm	<input checked="" type="checkbox"/>	Zn- Zinc 1092	ug/L			
pH 403	units	MBAS 38260	mg/L	<input checked="" type="checkbox"/>	V-Vanadium	ug/L		Base/Neutral & Acid Extractable Organics	
Acidity to pH 4.5 436	ug/L	Phenols 32730	ug/L	<input checked="" type="checkbox"/>	Ag- Silver 1077	ug/L		TPH Diesel Range	
Acidity to pH 8.3 435	mg/L	Sulfate 945	mg/L	<input checked="" type="checkbox"/>	Al- Aluminum 1105	ug/L			
Alkalinity to pH 8.3 415	mg/L	Sulfide 745	mg/L	<input checked="" type="checkbox"/>	Be- Beryllium 1012	ug/L		Purgeable Organics (VOA bottle req'd)	
Alkalinity to pH 4.5 410	mg/L	Boron		<input checked="" type="checkbox"/>	Ca- Calcium 916	mg/L		TPH Gasoline Range	
TOC 680	mg/L	Tannin & Lignin	ug/L	<input checked="" type="checkbox"/>	Co- Cobalt 1037	ug/L		TPH/BTEX Gasoline Range	
Turbidity 76	NTU	Hexavalent Chromium	ug/L	<input checked="" type="checkbox"/>	Fe- Iron 1045	ug/L		Phytoplankton	
Coliform Total Tube	/100 ml	Bicarbonate	mg/L	<input checked="" type="checkbox"/>	Mo-Molybdenum	ug/L			
		Carbonate	mg/L	<input checked="" type="checkbox"/>	Sb-Antimony	ug/L			
		Total Dissolved Solids	mg/L	<input checked="" type="checkbox"/>	Sn-Tin	ug/L			
				<input checked="" type="checkbox"/>	Tl-Thallium	ug/L			
				<input checked="" type="checkbox"/>	Ti-Titanium	ug/L			
				<input checked="" type="checkbox"/>	Hg-1631	ng/L			
								Temperature on arrival (°C):	3.2

COMMENTS :

County: <b>CASWELL</b>	 <b>Final Report</b>	Sample ID: <b>AC04976</b>
River Basin: <b>ROA04</b>		PO Number #: <b>14W12447</b>
Report To: <b>WSROSP</b>		Date Received: <b>02/12/2014</b>
Collector: <b>J IVERSON</b>		Time Received: <b>08:26</b>
Region: <b>WSRO</b>		Labworks LoginID: <b>MSWIFT</b>
Sample Matrix: <b>SURFACEWATER</b>		Final Report Date: <b>2/27/14</b>
Loc. Type: <b>RIVER/STREAM</b>		Report Print Date: <b>02/27/2014</b>
Emergency Yes/No		VisitID
COC Yes/No		
Loc. Descr.: <b>DAN R. AT MILTON</b>		

Location ID: <b>N3500000</b>	Collect Date: <b>02/11/2014</b>	Collect Time: <b>13:30</b>	Sample Depth
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**If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.**

CAS #	Analyte Name	PQL	Result/ Qualifier	Units	Method Reference	Analysis Date	Validated by
<b>LAB</b>							
	Sample temperature at receipt by lab		<b>3.2</b>	°C		2/12/14	MSWIFT
<b>MET</b>							
7440-38-2	As- Dissolved by ICPMS Arsenic	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/25/14	ESTAFFORD1
7440-70-2	Ca-Dissolved Calcium by ICP	0.10	<b>8.5</b>	mg/L	EPA 200.7	2/19/14	ESTAFFORD1
7440-43-9	Cd- Dissolved Cadmium by ICPMS	0.50	<b>0.50 U</b>	ug/L	EPA 200.8	2/25/14	ESTAFFORD1
7440-47-3	Cr- Dissolved Chromium by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	2/25/14	ESTAFFORD1
7440-50-8	Cu- Dissolved Copper by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/25/14	ESTAFFORD1
7439-89-6	Fe- Dissolved Iron by ICP	50	<b>87</b>	ug/L	EPA 200.7	2/19/14	ESTAFFORD1
7440-09-7	K-Dissolved Potassium by ICP	0.10	<b>1.7</b>	mg/L	EPA 200.7	2/19/14	ESTAFFORD1
7439-95-4	Mg- Dissolved Magnesium by ICP	0.10	<b>3.1</b>	mg/L	EPA 200.7	2/19/14	ESTAFFORD1
7439-96-5	Dissolved Mn by ICP	10	<b>28</b>	ug/L	EPA 200.7	2/19/14	ESTAFFORD1
7440-23-5	Na-Dissolved Sodium by ICP	0.10	<b>6.8</b>	mg/L	EPA 200.7	2/19/14	ESTAFFORD1
7440-02-0	Ni-Dissolved Nickel by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/25/14	ESTAFFORD1
7439-92-1	Pb-Dissolved Lead by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/25/14	ESTAFFORD1
7782-49-2	Se-Dissolved Selenium by ICPMS	5.0	<b>5.0 U</b>	ug/L	EPA 200.8	2/25/14	ESTAFFORD1
7429-90-5	Al - Dissolved Aluminum by ICP	50	<b>50 U</b>	ug/L	EPA 200.7	2/19/14	ESTAFFORD1
7429-90-5	B by ICP	50	<b>120</b>	ug/L	EPA 200.7	2/20/14	ESTAFFORD1
7440-38-3	Ba- Dissolved Barium by ICP	10	<b>26</b>	ug/L	EPA 200.7	2/19/14	ESTAFFORD1
	Stronium Dissolved by ICPMS	10	<b>68</b>	ug/L	EPA 200.8	2/25/14	ESTAFFORD1
7440-28-0	Thallium (Tl) Dissolved by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/25/14	ESTAFFORD1
7440-32-6	Ti (Titanium) Dissolved by ICP	10	<b>10 U</b>	ug/L	EPA 200.7	2/20/14	ESTAFFORD1
7440-62-2	V Dissolved by ICP	25	<b>25 U</b>	ug/L	EPA 200.7	2/19/14	ESTAFFORD1
7440-66-6	Zn-Dissolved Zinc by ICP	10	<b>10 U</b>	ug/L	EPA 200.7	2/19/14	ESTAFFORD1

DIVISION OF WATER RESOURCES  
Surface Water Fieldsheet

14W 12526  
3  
1/18/14

Lab Number: AC05057  
 Date Received: 2-18-14  
 Time Received: 8:05  
 Received By: NYD  
 Data Released: \_\_\_\_\_  
 Date Reported: \_\_\_\_\_

COUNTY: Caswell  
 RIVER BASIN: ROANOKE  
 REPORT TO: ESS  
 SHIPPED BY: \_\_\_\_\_  
 COLLECTOR(S): J. Smith

PRIORITY  
 AMBIENT  QA  
 COMPLIANCE  CHAIN OF CUSTODY  
 EMERGENCY

W SAMPLE TYPE  
 STREAM  EFFLUENT  
 LAKE  INFLUENT  
 ESTUARY

Visit ID: \_\_\_\_\_


6

Estimated BOD Range: \_\_\_\_\_ Station Location: Don River at NCS7 at near Milton

Seed: \_\_\_\_\_ Chlorinated: \_\_\_\_\_ Remarks: \_\_\_\_\_

Station #/Location Code	Date Begin (yy/mm/dd)	Date End (yy/mm/dd)	Time Begin	Time End	Depth - DM, DB, DBM	Value Type - A, H, L	Composite-T, S, B	Sample Type
<u>F1</u>	<u>14102/17</u>		<u>11:10</u>		<u>0.15</u>			<u>G</u>
BOD 310	mg/L	<input checked="" type="checkbox"/> Chloride 940	mg/L		NH3 as N 610	mg/L	<input checked="" type="checkbox"/> Li- Lithium 1132	ug/L
COD High 340	mg/L				TKN as N 625	mg/L	<input checked="" type="checkbox"/> Mg- Magnesium 927	mg/L
COD Low 335	mg/L	Chlorophyll a EPA 445.0 modified option	ug/L		NO2 plus NO3 as N 630	mg/L	<input checked="" type="checkbox"/> Mn- Manganese 1055	ug/L
Coliform: MF Fecal 31616	#/100 mls				P: Total as P 665	mg/L	<input checked="" type="checkbox"/> Na- Sodium 929	mg/L
Coliform: MF Total 31504	#/100 mls	Color: True 80	c.u.		P O4 as P 70507	mg/L	<input checked="" type="checkbox"/> As- Arsenic: Total 1002	ug/L
Coliform: Tube Fecal 31615	#/100 mls	Color: (pH) 83 pH=	c.u.		P: Dissolved as P 666	mg/L	<input checked="" type="checkbox"/> Se- Selenium 1147	ug/L
Coliform: Fecal Strep 31673	#/100 mls	Color: pH 7.6 82	c.u.		K- Potassium	mg/L	<input checked="" type="checkbox"/> Hg- Mercury 71900	ug/L
<input checked="" type="checkbox"/> Residue: Total 500	mg/L	Cyanide 720	mg/L		<input checked="" type="checkbox"/> Cd- Cadmium 1027	ug/L	<input checked="" type="checkbox"/> Ba- Barium	ug/L
Volatile 505	mg/L	<input checked="" type="checkbox"/> Fluoride 951	mg/L		Cr- Chromium: Total 1034	ug/L		Organochlorine Pesticides
Fixed 510	mg/L	Formaldehyde 71880	mg/L		<input checked="" type="checkbox"/> Cu- Copper 1042	ug/L		Organophosphorus Pesticides
<input checked="" type="checkbox"/> Residue: Suspended 530	mg/L	Grease and Oils 556	mg/L		<input checked="" type="checkbox"/> Ni- Nickel 1067	ug/L		Organonitrogen Pesticides
Volatile 535	mg/L	<input checked="" type="checkbox"/> Hardness Total 900	mg/L		<input checked="" type="checkbox"/> Pb- Lead 1051	ug/L		Acid Herbicides
Fixed 540	mg/L	Specific Cond. 95	umhos/cm2		<input checked="" type="checkbox"/> Zn- Zinc 1092	ug/L		
pH 403	units	MBAS 38260	mg/L		<input checked="" type="checkbox"/> V- Vanadium	ug/L		Base/Neutral&Acid Extractable Organics
Acidity to pH 4.5 436	mg/L	Phenols 32730	ug/L		<input checked="" type="checkbox"/> Ag- Silver 1077	ug/L		TPH Diesel Range
Acidity to pH 8.3 435	mg/L	<input checked="" type="checkbox"/> Sulfate 945	mg/L		<input checked="" type="checkbox"/> Al- Aluminum 1105	ug/L		
Alkalinity to pH 8.3 415	mg/L	Sulfide 745	mg/L		<input checked="" type="checkbox"/> Be- Beryllium 1012	ug/L		Purgeable Organics (VOA bottle req'd)
Alkalinity to pH 4.5 410	mg/L	<input checked="" type="checkbox"/> Boron: Total 1022	ug/L		<input checked="" type="checkbox"/> Ca- Calcium 916	mg/L		TPH Gasoline Range
TOC 680	mg/L	Tannin & Lignin 32240	ug/L		<input checked="" type="checkbox"/> Co- Cobalt 1037	ug/L		TPH/B TEX Gasoline Range
Turbidity 82079	NTU	Hexavalent Chromium 1032	ug/L		<input checked="" type="checkbox"/> Fe- Iron 1045	ug/L		Phytoplankton
Coliform Total Tube 31508	#/100 mls	Bicarbonate	mg/L		<input checked="" type="checkbox"/> Mo- Molybdenum	ug/L		
		Carbonate	mg/L		Sb- Antimony	ug/L		<input checked="" type="checkbox"/> Sr- STRONTIUM
DOC - filtered	mg/L	Total Dissolved Solids	mg/L		Sn- Tin	ug/L		
					<input checked="" type="checkbox"/> Tl- Thallium	ug/L		
					Ti- Titanium	ug/L		
					Hg- 1631	ng/L		Temperature on arrival (°C): <u>1.3</u>

COMMENTS: \_\_\_\_\_

County: <b>CASWELL</b>	 <b>Final Report</b>	Sample ID: <b>AC05057</b>
River Basin: <b>ROA01</b>		PO Number #: <b>14W12525</b>
Report To: <b>ESS</b>		Date Received: <b>02/18/2014</b>
Collector: <b>J SMITH</b>		Time Received: <b>08:05</b>
Region: <b>WSRO</b>		Labworks LoginID: <b>MSWIFT</b>
Sample Matrix: <b>SURFACEWATER</b>		Final Report Date: <b>2/27/14</b>
Loc. Type: <b>RIVER/STREAM</b>		Report Print Date: <b>02/27/2014</b>
Emergency Yes/No: <b>Yes</b>		VisitID:
COC Yes/No: <b>Yes</b>		
Loc. Descr.: <b>DAN RIVER AT NC57 AT NEAR MILTON</b>		

Location ID: <b>F1</b>	Collect Date: <b>02/17/2014</b>	Collect Time: <b>11:10</b>	Sample Depth: <b>0.15</b>
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**If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.**

CAS #	Analyte Name	PQL	Result/ Qualifier	Units	Method Reference	Analysis Date	Validated by
<b>LAB</b>							
	Sample temperature at receipt by lab		<b>1.3</b>	°C		2/18/14	MSWIFT
<b>WET</b>							
	Residue_Total in liquid	12	<b>134</b>	mg/L	SM 2540 B-1997	2/18/14	CGREEN
	Residue_Suspended in liquid	6.2	<b>56</b>	mg/L	SM 2540 D-1997	2/18/14	CGREEN
	Ion Chromatography		<b>_TITLE_</b>	mg/L	EPA 300.0 rev2.1	2/20/14	CGREEN
	Chloride	1.0	<b>15</b>	mg/L	EPA 300.0 rev2.1	2/20/14	CGREEN
	Fluoride	0.4	<b>0.4 U</b>	mg/L	EPA 300.0 rev2.1	2/20/14	CGREEN
	Sulfate	2.0	<b>4.5</b>	mg/L	EPA 300.0 rev2.1	2/20/14	CGREEN
<b>MET</b>							
7429-90-5	Al by ICP	50	<b>2100</b>	ug/L	EPA 200.7	2/21/14	ESTAFFORD1
7440-38-2	As by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7429-90-5	B by ICP	50	<b>77</b>	ug/L	EPA 200.7	2/21/14	ESTAFFORD1
7440-38-3	Ba by ICP	10	<b>51</b>	ug/L	EPA 200.7	2/20/14	ESTAFFORD1
7440-70-2	Ca by ICP	0.10	<b>7.2</b>	mg/L	EPA 200.7	2/20/14	ESTAFFORD1
7440-43-9	Cd by ICPMS	0.50	<b>0.50 U</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7440-47-3	Cr by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7440-50-8	Cu by ICPMS	2.0	<b>3.7</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7439-89-6	Fe by ICP	50	<b>2500</b>	ug/L	EPA 200.7	2/21/14	ESTAFFORD1
7440-09-7	K by ICP	0.10	<b>2.2</b>	mg/L	EPA 200.7	2/20/14	ESTAFFORD1
7439-95-4	Mg by ICP	0.10	<b>3.0</b>	mg/L	EPA 200.7	2/24/14	ESTAFFORD1
7439-96-5	Mn by ICP	10	<b>64</b>	ug/L	EPA 200.7	2/21/14	ESTAFFORD1
7440-23-5	Na by ICP	0.10	<b>8.5</b>	mg/L	EPA 200.7	2/20/14	ESTAFFORD1
7440-02-0	Ni by ICPMS	2.0	<b>2.0</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7439-92-1	Pb by ICPMS	2.0	<b>2.3</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7782-49-2	Se by ICPMS	5.0	<b>5.0 U</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7440-24-6	Sr by ICPMS	10	<b>54</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7440-28-0	Thallium (Tl) ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7440-32-6	Ti (Titanium) by ICP	10	<b>100</b>	ug/L	EPA 200.7	2/20/14	ESTAFFORD1
7440-62-2	V by ICP	25	<b>25 U</b>	ug/L	EPA 200.7	2/21/14	ESTAFFORD1
7440-66-6	Zn by ICP	10	<b>11</b>	ug/L	EPA 200.7	2/21/14	ESTAFFORD1

DIVISION OF WATER RESOURCES

Surface Water Fieldsheet

COUNTY : Caswell  
 RIVER BASIN : Roanoke 04  
 REPORT TO : Winston-Salem Regional Office  
 Other : S Wang/S. Berry  
 COLLECTOR(S) : [Redacted]

PRIORITY  
 AMBIENT  QA  
 COMPLIANCE  CHAIN OF CUSTODY  
 EMERGENCY VISIT ID  
016

SAMPLE TYPE  
 STREAM  EFFLUENT  
 LAKE  INFLUENT  
 ESTUARY

4

Estimated BOD Range:

Station Location: Dan R. at Milton N3500000

Seed: \_\_\_\_\_ Chlorinated: \_\_\_\_\_

Remarks: \_\_\_\_\_


14W12539  
 2/12/14  
 Lab Number : AC05076  
 Date Received : 2.18.14  
 Time Received : 8:15  
 Received By : [Signature]  
 Data Released :  
 Date Reported :

Station #/Location Code	Date Begin (yy/mm/dd)	Date End (yy/mm/dd)	Time Begin	Time End	Depth - DM, DB, DBM	Value Type - A, H, L	Composite-T, S, B	Sample Type
N3500000	<u>2/12/14</u>	<u>2/12/14</u>	<u>11:00</u>	<u>11:05</u>				G

<input type="checkbox"/> BOD 310	mg/L	<input checked="" type="checkbox"/> Chloride 940	mg/L	<input checked="" type="checkbox"/> NH3 as N 6101	mg/L	<input checked="" type="checkbox"/> Li-Lithium 1132	ug/L
<input type="checkbox"/> COD High 340	mg/L	<input type="checkbox"/>		<input checked="" type="checkbox"/> Total Am N 625	mg/L	<input checked="" type="checkbox"/> Mg- Magnesium 927	mg/L
<input type="checkbox"/> COD Low 335	mg/L	<input type="checkbox"/> Chlorophyll a EPA 445.0 modified option	ug/L	<input checked="" type="checkbox"/> NO2 plus NO3 as N 630	mg/L	<input checked="" type="checkbox"/> Mn-Manganese 1055	ug/L
<input type="checkbox"/> Coliform: MF Fecal 31616	/100ml	<input type="checkbox"/>		<input checked="" type="checkbox"/> P: Total as P 665	mg/L	<input checked="" type="checkbox"/> Na- Sodium 929	mg/L
<input type="checkbox"/> Coliform: MF Total 31504	/100ml	<input type="checkbox"/> Color: True 80	c.u.	<input type="checkbox"/> PO4 as P 70507	mg/L	<input checked="" type="checkbox"/> Arsenic: Total 1002	ug/L
<input type="checkbox"/> Coliform: tube Fecal 31615	/100ml	<input type="checkbox"/> Color: (pH ) 83 pH=	c.u.	<input type="checkbox"/> P: Dissolved as P 666	mg/L	<input checked="" type="checkbox"/> Se- Selenium 1147	ug/L
<input type="checkbox"/> Coliform: Fecal Strep 31673	/100ml	<input type="checkbox"/> Color: pH 7.6 82	c.u.	<input checked="" type="checkbox"/> K-Potassium	mg/L	<input checked="" type="checkbox"/> Hg- Mercury 71900	ug/L
<input checked="" type="checkbox"/> Residue: Total 500	mg/L	<input type="checkbox"/> Cyanide 720	mg/L	<input checked="" type="checkbox"/> Cd- Cadmium 1027	ug/L	<input checked="" type="checkbox"/> Ba-Barium	ug/L
<input type="checkbox"/> Volatile 505	mg/L	<input checked="" type="checkbox"/> Fluoride 951	mg/L	<input checked="" type="checkbox"/> Cr-Chromium: Total 1034	ug/L	<input type="checkbox"/>	Organochlorine Pesticides
<input type="checkbox"/> Fixed 510	mg/L	<input type="checkbox"/> Formaldehyde 71880	mg/L	<input checked="" type="checkbox"/> Cu- Copper 1042	ug/L	<input type="checkbox"/>	Organophosphorus Pesticides
<input checked="" type="checkbox"/> Residue: Suspended 530	mg/L	<input type="checkbox"/> Grease and Oils 556	mg/L	<input checked="" type="checkbox"/> Ni-Nickel 1067	ug/L	<input type="checkbox"/>	Organonitrogen Pesticides
<input type="checkbox"/> Volatile 535	mg/L	<input type="checkbox"/> Hardness Total 900	mg/L	<input checked="" type="checkbox"/> Pb- Lead 1051	ug/L	<input type="checkbox"/>	Acid Herbicides
<input type="checkbox"/> Fixed 540	mg/L	<input type="checkbox"/> Specific Cond. 95	umhos/cm	<input checked="" type="checkbox"/> Zn- Zinc 1092	ug/L	<input type="checkbox"/>	
<input type="checkbox"/> pH 403	units	<input type="checkbox"/> MBAS 38260	mg/L	<input checked="" type="checkbox"/> V-Vanadium	ug/L	<input type="checkbox"/>	Base/Neutral&Acid Extractable Organics
<input type="checkbox"/> Acidity to pH 4.5 436	mg/L	<input type="checkbox"/> Phenols 32730	ug/L	<input checked="" type="checkbox"/> Ag- Silver 1077	ug/L	<input type="checkbox"/>	TPH Diesel Range
<input type="checkbox"/> Acidity to pH 8.3 435	mg/L	<input checked="" type="checkbox"/> Sulfate 945	mg/L	<input checked="" type="checkbox"/> Al- Aluminum 1105	ug/L	<input type="checkbox"/>	
<input type="checkbox"/> Alkalinity to pH 8.3 415	mg/L	<input type="checkbox"/> Sulfide 745	mg/L	<input checked="" type="checkbox"/> Be- Beryllium 1012	ug/L	<input type="checkbox"/>	Purgeable Organics (VOA bottle req'd)
<input type="checkbox"/> Alkalinity to pH 4.5 410	mg/L	<input type="checkbox"/> Boron		<input checked="" type="checkbox"/> Ca- Calcium 916	mg/L	<input type="checkbox"/>	TPH Gasoline Range
<input type="checkbox"/> TOC 680	mg/L	<input type="checkbox"/> Tannin & Lignin	ug/L	<input checked="" type="checkbox"/> Co- Cobalt 1037	ug/L	<input type="checkbox"/>	TPH/BTEX Gasoline Range
<input checked="" type="checkbox"/> Turbidity 76	NTU	<input type="checkbox"/> Hexavalent Chromium	ug/L	<input checked="" type="checkbox"/> Fe- Iron 1045	ug/L	<input type="checkbox"/>	Phytoplankton
<input type="checkbox"/> Coliform Total Tube	/100 ml	<input type="checkbox"/> Bicarbonate	mg/L	<input checked="" type="checkbox"/> Mo-Molybdenum	ug/L	<input type="checkbox"/>	
		<input type="checkbox"/> Carbonate	mg/L	<input checked="" type="checkbox"/> Sb-Antimony	ug/L	<input type="checkbox"/>	
		<input checked="" type="checkbox"/> Total Dissolved Solids	mg/L	<input checked="" type="checkbox"/> Sn-Tin	ug/L	<input type="checkbox"/>	
				<input checked="" type="checkbox"/> Tl-Thallium	ug/L	<input type="checkbox"/>	
				<input checked="" type="checkbox"/> Ti-Titanium	ug/L	<input type="checkbox"/>	
				<input type="checkbox"/> Hg-1631	ng/L	<input type="checkbox"/>	Temperature on arrival (°C): <u>11</u>

COMMENTS :



County: <b>CASWELL</b>	 <b>Final Report</b>	Sample ID: <b>AC05076</b>
River Basin: <b>ROA04</b>		PO Number #: <b>14W12539</b>
Report To: <b>WSROSP</b>		Date Received: <b>02/18/2014</b>
Collector: <b>S WANG</b>		Time Received: <b>08:15</b>
Region: <b>WSRO</b>		Labworks LoginID: <b>MSWIFT</b>
Sample Matrix: <b>SURFACEWATER</b>		Final Report Date: <b>2/27/14</b>
Loc. Type: <b>RIVER/STREAM</b>		Report Print Date: <b>02/27/2014</b>
Emergency Yes/No: <b>Yes</b>		VisitID: <input type="text" value="06"/>
COC Yes/No: <b>Yes</b>		
Loc. Descr.: <b>DAN RIV AT NC 57 AT VA LINE AT MILTON</b>		

Location ID: <b>N3500000</b>	Collect Date: <b>02/17/2014</b>	Collect Time: <b>11:05</b>	Sample Depth
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**If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.**

CAS #	Analyte Name	PQL	Result/ Qualifier	Units	Method Reference	Analysis Date	Validated by
<b>LAB</b>							
	Sample temperature at receipt by lab		<b>1.1</b>	°C		2/18/14	MSWIFT
<b>MIC</b>							
	Turbidity	1.0	<b>50</b>	NTU	APHA2130B-20th	2/18/14	ESTAFFORD1
<b>WET</b>							
	Residue_Total in liquid	12	<b>153</b>	mg/L	SM 2540 B-1997	2/19/14	CGREEN
	Residue_Suspended in liquid	6.2	<b>54</b>	mg/L	SM 2540 D-1997	2/18/14	CGREEN
	Ion Chromatography		<b>_TITLE_</b>	mg/L	EPA 300.0 rev2.1	2/25/14	CGREEN
	Chloride	1.0	<b>15</b>	mg/L	EPA 300.0 rev2.1	2/25/14	CGREEN
	Fluoride	0.4	<b>0.8 U,P</b>	mg/L	EPA 300.0 rev2.1	2/25/14	CGREEN
	Sulfate	2.0	<b>5.5</b>	mg/L	EPA 300.0 rev2.1	2/25/14	CGREEN
	Total Dissolved Solids in liquid	12	<b>86</b>	mg/L	SM 2540 C-1997	2/19/14	CGREEN
<b>MET</b>							
7429-90-5	Al by ICP	50	<b>2600</b>	ug/L	EPA 200.7	2/24/14	ESTAFFORD1
7440-38-2	As by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7429-90-5	B by ICP	50	<b>77</b>	ug/L	EPA 200.7	2/25/14	ESTAFFORD1
7440-38-3	Ba by ICP	10	<b>50</b>	ug/L	EPA 200.7	2/24/14	ESTAFFORD1
7440-70-2	Ca by ICP	0.10	<b>7.2</b>	mg/L	EPA 200.7	2/24/14	ESTAFFORD1
7440-43-9	Cd by ICPMS	0.50	<b>0.50 U</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7440-47-3	Cr by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7440-50-8	Cu by ICPMS	2.0	<b>3.6</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7439-89-6	Fe by ICP	50	<b>2600</b>	ug/L	EPA 200.7	2/24/14	ESTAFFORD1
7440-09-7	K by ICP	0.10	<b>2.1</b>	mg/L	EPA 200.7	2/24/14	ESTAFFORD1
7439-95-4	Mg by ICP	0.10	<b>3.0</b>	mg/L	EPA 200.7	2/24/14	ESTAFFORD1
7439-96-5	Mn by ICP	10	<b>65</b>	ug/L	EPA 200.7	2/24/14	ESTAFFORD1
7440-23-5	Na by ICP	0.10	<b>8.5</b>	mg/L	EPA 200.7	2/24/14	ESTAFFORD1
7440-02-0	Ni by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7439-92-1	Pb by ICPMS	2.0	<b>2.3</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7782-49-2	Se by ICPMS	5.0	<b>5.0 U</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7440-24-6	Sr by ICPMS	10	<b>52</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7440-28-0	Thallium (Tl) ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7440-32-6	Ti (Titanium) by ICP	10	<b>100</b>	ug/L	EPA 200.7	2/24/14	ESTAFFORD1

Laboratory Section>> 1623 Mail Service Center, Raleigh, NC 27699-1623 (919) 733-3908

For a detailed description of the qualifier codes refer to [http://portal.ncdenr.org/web/wq/lab/staffinfo/techassist#Data\\_Qualifier\\_Codes](http://portal.ncdenr.org/web/wq/lab/staffinfo/techassist#Data_Qualifier_Codes) <<http://portal.ncdenr.org/web/wq/lab/staffinfo/techassist>>

*NC DWR Laboratory Section Results*

Location ID: **N3500000**      Sample ID: **AC05076**      Collect Date: **02/17/2014**      Collect Time: **11:05**

**MET**

<u>CAS #</u>	<u>Analyte Name</u>	<u>PQL</u>	<u>Result/ Qualifier</u>	<u>Units</u>	<u>Method Reference</u>	<u>Analysis Date</u>	<u>Validated by</u>
7440-62-2	V by ICP	25	<b>25 U</b>	ug/L	EPA 200.7	2/24/14	ESTAFFORD1
7440-66-6	Zn by ICP	10	<b>10 U</b>	ug/L	EPA 200.7	2/24/14	ESTAFFORD1

14W 12535 m/s 2/18/14  
40

DIVISION OF WATER RESOURCES

Surface Water Fieldsheet

COUNTY : Caswell  
 RIVER BASIN : Roanoke 04  
 REPORT TO : Winston-Salem Regional Office  
 Other :  
 COLLECTOR(S) : S. Wang / S. Berry

PRIORITY  
 AMBIENT  QA  
 COMPLIANCE  CHAIN OF CUSTODY  
 EMERGENCY

SAMPLE TYPE  
 STREAM  EFFLUENT  
 LAKE  INFLUENT  
 ESTUARY

VISIT ID  
05

4

Lab Number : AC05077  
 Date Received : 2-18-14  
 Time Received : 8:15  
 Received By : mp  
 Data Released :  
 Date Reported :

Estimated BOD Range:

Station Location: Dan R. at Milton N35 00000

Seed: \_\_\_\_\_


Chlorinated: \_\_\_\_\_

Remarks: Dissolved Metals

Station #/Location Code	Date Begin (yy/mm/dd)	Date End (yy/mm/dd)	Time Begin	Time End	Depth - DM, DB, DBM	Value Type - A, H, L	Composite-T, S, B	Sample Type
N3500000	14/02/17	14/02/17	1040	1105				G

BOD 310	mg/L	Chloride 940	mg/L	NH3 as N 610	mg/L	<input checked="" type="checkbox"/>	Li-Lithium 1132	ug/L
COD High 340	mg/L			TKN as N 625	mg/L	<input checked="" type="checkbox"/>	Mg- Magnesium 927	mg/L
COD Low 335	mg/L	Chlorophyll a EPA 445.0 modified option	ug/L	NO2 plus NO3 as N 630	mg/L	<input checked="" type="checkbox"/>	Mn-Manganese 1055	ug/L
Coliform: MF Fecal 31616	/100ml			P: Total as P 665	mg/L	<input checked="" type="checkbox"/>	Na- Sodium 929	mg/L
Coliform: MF Total 31504	/100ml	Color: True 80	c.u.	PO4 as P 70507	mg/L	<input checked="" type="checkbox"/>	Arsenic: Total 1002	ug/L
Coliform: tube Fecal 31615	/100ml	Color: (pH) 83 pH=	c.u.	P: Dissolved as P 666	mg/L	<input checked="" type="checkbox"/>	Se- Selenium 1147	ug/L
Coliform: Fecal Strep 31673	/100ml	Color: pH 7.6 82	c.u.	<input checked="" type="checkbox"/> K-Potassium	mg/L	<input checked="" type="checkbox"/>	Hg- Mercury 71900	ug/L
Residue: Total 500	mg/L	Cyanide 720	mg/L	<input checked="" type="checkbox"/> Cd- Cadmium 1027	ug/L	<input checked="" type="checkbox"/>	Ba-Barium	ug/L
Volatile 505	mg/L	Fluoride 951	mg/L	<input checked="" type="checkbox"/> Cr-Chromium: Total 1034	ug/L		Organochlorine Pesticides	
Fixed 510	mg/L	Formaldehyde 71880	mg/L	<input checked="" type="checkbox"/> Cu- Copper 1042	ug/L		Organophosphorus Pesticides	
Residue: Suspended 530	mg/L	Grease and Oils 556	mg/L	<input checked="" type="checkbox"/> Ni-Nickel 1067	ug/L		Organonitrogen Pesticides	
Volatile 535	mg/L	Hardness Total 900	mg/L	<input checked="" type="checkbox"/> Pb- Lead 1051	ug/L		Acid Herbicides	
Fixed 540	mg/L	Specific Cond. 95	umhos/cm	<input checked="" type="checkbox"/> Zn- Zinc 1092	ug/L			
pH 403	units	MBAS 38260	mg/L	<input checked="" type="checkbox"/> V-Vanadium	ug/L		Base/Neutral&Acid Extractable Organics	
Acidity to pH 4.5 436	mg/L	Phenols 32730	ug/L	<input checked="" type="checkbox"/> Ag- Silver 1077	ug/L		TPH Diesel Range	
Acidity to pH 8.3 435	mg/L	Sulfate 945	mg/L	<input checked="" type="checkbox"/> Al- Aluminum 1105	ug/L			
Alkalinity to pH 8.3 415	mg/L	Sulfide 745	mg/L	<input checked="" type="checkbox"/> Be- Beryllium 1012	ug/L		Purgeable Organics (VOA bottle req'd)	
Alkalinity to pH 4.5 410	mg/L	Boron		<input checked="" type="checkbox"/> Ca- Calcium 916	mg/L		TPH Gasoline Range	
TOC 680	mg/L	Tannin & Lignin	ug/L	<input checked="" type="checkbox"/> Co- Cobalt 1037	ug/L		TPH/BTEX Gasoline Range	
Turbidity 76	NTU	Hexavalent Chromium	ug/L	<input checked="" type="checkbox"/> Fe- Iron 1045	ug/L		Phytoplankton	
Coliform Total Tube	/100 ml	Bicarbonate	mg/L	<input checked="" type="checkbox"/> Mo-Molybdenum	ug/L			
		Carbonate	mg/L	<input checked="" type="checkbox"/> Sb-Antimony	ug/L			
		Total Dissolved Solids	mg/L	<input checked="" type="checkbox"/> Sn-Tin	ug/L			
				<input checked="" type="checkbox"/> Tl-Thallium	ug/L			
				<input checked="" type="checkbox"/> Ti-Titanium	ug/L			
				Hg-1631	ng/L		Temperature on arrival (°C):	1.1

COMMENTS :

County: <b>CASWELL</b>	 <b>Final Report</b>	Sample ID: <b>AC05077</b>
River Basin: <b>ROA04</b>		PO Number #: <b>14W12540</b>
Report To: <b>WSROSP</b>		Date Received: <b>02/18/2014</b>
Collector: <b>S WANG</b>		Time Received: <b>08:15</b>
Region: <b>WSRO</b>		Labworks LoginID: <b>MSWIFT</b>
Sample Matrix: <b>SURFACEWATER</b>		Final Report Date: <b>2/27/14</b>
Loc. Type: <b>RIVER/STREAM</b>		Report Print Date: <b>02/27/2014</b>
Emergency Yes/No: <u>Yes</u>	VisitID: <input type="text" value="06"/>	
COC Yes/No: <u>Yes</u>		
Loc. Descr.: <b>DAN RIV AT NC 57 AT VA LINE AT MILTON</b>		
Location ID: <b>N3500000</b>	Collect Date: <b>02/17/2014</b>	Collect Time: <b>11:05</b>
Sample Depth		
<b>If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.</b>		

CAS #	Analyte Name	PQL	Result/ Qualifier	Units	Method Reference	Analysis Date	Validated by
<b>LAB</b>							
	Sample temperature at receipt by lab		1.1	°C		2/18/14	MSWIFT
<b>MET</b>							
7440-38-2	As- Dissolved by ICPMS Arsenic	2.0	2.0 U	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7440-70-2	Ca-Dissolved Calcium by ICP	0.10	6.7	mg/L	EPA 200.7	2/24/14	ESTAFFORD1
7440-43-9	Cd- Dissolved Cadmium by ICPMS	0.50	0.50 U	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7440-47-3	Cr- Dissolved Chromium by ICPMS	10	10 U	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7440-50-8	Cu- Dissolved Copper by ICPMS	2.0	2.0 U	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7439-89-6	Fe- Dissolved Iron by ICP	50	110	ug/L	EPA 200.7	2/24/14	ESTAFFORD1
7440-09-7	K-Dissolved Potassium by ICP	0.10	1.8	mg/L	EPA 200.7	2/24/14	ESTAFFORD1
7439-95-4	Mg- Dissolved Magnesium by ICP	0.10	2.6	mg/L	EPA 200.7	2/24/14	ESTAFFORD1
7439-96-5	Dissolved Mn by ICP	10	14	ug/L	EPA 200.7	2/24/14	ESTAFFORD1
7440-23-5	Na-Dissolved Sodium by ICP	0.10	8.1	mg/L	EPA 200.7	2/24/14	ESTAFFORD1
7440-02-0	Ni-Dissolved Nickel by ICPMS	2.0	2.0 U	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7439-92-1	Pb-Dissolved Lead by ICPMS	2.0	2.0 U	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7782-49-2	Se-Dissolved Selenium by ICPMS	5.0	5.0 U	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7429-90-5	Al - Dissolved Aluminum by ICP	50	92	ug/L	EPA 200.7	2/24/14	ESTAFFORD1
7429-90-5	B by ICP	50	76	ug/L	EPA 200.7	2/25/14	ESTAFFORD1
7440-38-3	Ba- Dissolved Barium by ICP	10	25	ug/L	EPA 200.7	2/24/14	ESTAFFORD1
	Stronium Dissolved by ICPMS	10	48	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7440-28-0	Thallium (Tl) Dissolved by ICPMS	2.0	2.0 U	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7440-32-6	Ti (Titanium) Dissolved by ICP	10	10 U	ug/L	EPA 200.7	2/24/14	ESTAFFORD1
7440-62-2	V Dissolved by ICP	25	25 U	ug/L	EPA 200.7	2/24/14	ESTAFFORD1
7440-66-6	Zn-Dissolved Zinc by ICP	10	10 U	ug/L	EPA 200.7	2/24/14	ESTAFFORD1

DIVISION OF WATER RESOURCES

Surface Water Fieldsheet

14W12557 AD 2/18/14  
14W12557

COUNTY : Caswell  
RIVER BASIN : Roanoke 04  
REPORT TO : Winston-Salem Regional Office

PRIORITY  
 AMBIENT  QA  
 COMPLIANCE  CHAIN OF CUSTODY  
 EMERGENCY

SAMPLE TYPE  
 STREAM  EFFLUENT  
 LAKE  INFLUENT  
 ESTUARY

Other :  
COLLECTOR(S) : 5/1/09/15/02/14

VISIT ID  
05

4

Lab Number : AC05098  
Date Received : 2-18-14  
Time Received : 8:15  
Received By : [Signature]  
Data Released :  
Date Reported :

Estimated BOD Range:

Station Location: Dan R. at Milton N 35 00000

Seed: \_\_\_\_\_ Chlorinated: \_\_\_\_\_

Remarks: (481 Hg 98 Mercury sample

Station #/Location Code	Date Begin (yy/mm/dd)	Date End (yy/mm/dd)	Time Begin	Time End	Depth - DM, DB, DBM	Value Type - A, H, L	Composite-T, S, B	Sample Type
N3500000	<u>1/1/02/14</u>	<u>1/1/02/14</u>	<u>10:45</u>	<u>11:25</u>				G

BOD 310	mg/L	Chloride 940	mg/L	NH3 as N 610	mg/L	Li-Lithium 1132	ug/L
COD High 340	mg/L			TKN an N 625	mg/L	Mg- Magnesium 927	mg/L
COD Low 335	mg/L	Chlorophyll a EPA 445.0 modified option	ug/L	NO2 plus NO3 as N 630	mg/L	Mn-Manganese 1055	ug/L
Coliform: MF Fecal 31616	/100ml			P: Total as P 665	mg/L	Na- Sodium 929	mg/L
Coliform: MF Total 31504	/100ml	Color: True 80	c.u.	PO4 as P 70507	mg/L	Arsenic: Total 1002	ug/L
Coliform: tube Fecal 31615	/100ml	Color: (pH ) 83 pH=	c.u.	P: Dissolved as P 666	mg/L	Se- Selenium 1147	ug/L
Coliform: Fecal Strep 31673	/100ml	Color: pH 7.6 82	c.u.	K-Potassium	mg/L	Hg- Mercury 71900	ug/L
Residue: Total 500	mg/L	Cyanide 720	mg/L	Cd- Cadmium 1027	ug/L	Ba-Barium	ug/L
Volatile 505	mg/L	Fluoride 951	mg/L	Cr-Chromium: Total 1034	ug/L	Organochlorine Pesticides	
Fixed 510	mg/L	Formaldehyde 71880	mg/L	Cu- Copper 1042	ug/L	Organophosphorus Pesticides	
Residue: Suspended 530	mg/L	Grease and Oils 556	mg/L	Ni-Nickel 1067	ug/L	Organonitrogen Pesticides	
Volatile 535	mg/L	Hardness Total 900	mg/L	Pb- Lead 1051	ug/L	Acid Herbicides	
Fixed 540	mg/L	Specific Cond. 95	umhos/cm	Zn- Zinc 1092	ug/L		
pH 403	units	MBAS 38260	mg/L	V-Vanadium	ug/L	Base/Neutral&Acid Extractable Organics	
Acidity to pH 4.5 436	mg/L	Phenols 32730	ug/L	Ag- Silver 1077	ug/L	TPH Diesel Range	
Acidity to pH 8.3 435	mg/L	Sulfate 945	mg/L	Al- Aluminum 1105	ug/L		
Alkalinity to pH 8.3 415	mg/L	Sulfide 745	mg/L	Be- Beryllium 1012	ug/L	Purgeable Organics (VOA bottle req'd)	
Alkalinity to pH 4.5 410	mg/L	Boron		Ca- Calcium 916	mg/L	TPH Gasoline Range	
TOC 680	mg/L	Tannin & Lignin	ug/L	Co- Cobalt 1037	ug/L	TPH/BTEX Gasoline Range	
Turbidity 76	NTU	Hexavalent Chromium	ug/L	Fe- Iron 1045	ug/L	Phytoplankton	
Coliform Total Tube	/100 ml	Bicarbonate	mg/L	Mo-Molybdenum	ug/L		
		Carbonate	mg/L	Sb-Antimony	ug/L		
		Total Dissolved Solids	mg/L	Sn-Tin	ug/L		
				Tl-Thallium	ug/L		
				Ti-Titanium	ug/L		
				<input checked="" type="checkbox"/> Hg-1631	ng/L	Temperature on arrival (°C):	

COMMENTS: 7 EOL Hg 24

County: CASWELL  
 River Basin: ROA04  
 Report To: WSROSP  
 Collector: S WANG  
 Region: WSRO  
 Sample Matrix: SURFACEWATER  
 Loc. Type: RIVER/STREAM  
 Emergency Yes/No: Yes  
 COC Yes/No: Yes



Sample ID: **AC05098**  
 PO Number #: **14W12557**  
 Date Received: **02/18/2014**  
 Time Received: **08:15**  
 Labworks LoginID: **MSWIFT**  
 Final Report Date: **3/3/14**  
 Report Print Date: **03/03/2014**

**Final Report**VisitID Loc. Descr.: DAN RIV AT NC 57 AT VA LINE AT MILTON

Location ID: <b>N3500000</b>	Collect Date: <b>02/17/2014</b>	Collect Time: <b>11:05</b>	Sample Depth
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***If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.***

<u>CAS #</u>	<u>Analyte Name</u>	<u>PQL</u>	<u>Result/ Qualifier</u>	<u>Units</u>	<u>Method Reference</u>	<u>Analysis Date</u>	<u>Validated by</u>
<b>MET</b>							
7439-97-6	Hg 1631	1.00	<b>9.70</b>	ng/L	EPA 1631E	2/28/14	ESTAFFORD1

14W 12578

DIVISION OF WATER RESOURCES  
Surface Water Fieldsheet

COUNTY : Caswell  
RIVER BASIN : Roanoke 04  
REPORT TO : Winston-Salem Regional Office  
Other :  
COLLECTOR(S) : Skinner / Iverson

PRIORITY  
 AMBIENT  QA  
 COMPLIANCE  CHAIN OF CUSTODY  
 EMERGENCY VISIT ID

SAMPLE TYPE  
 STREAM  EFFLUENT  
 LAKE  INFLUENT  
 ESTUARY

4

Lab Number : AC05115  
AC05116 MB  
Date Received : 2-18-2017  
Time Received : 1315  
Received By : NRMS  
Data Released :  
Date Reported :

Estimated BOD Range:

Station Location: Dan R. at Milton N3500000

Seed: \_\_\_\_\_ Chlorinated: \_\_\_\_\_


Remarks: \_\_\_\_\_

Station #/Location Code	Date Begin (yy/mm/dd)	Date End (yy/mm/dd)	Time Begin	Time End	Depth - DM, DB, DBM	Value Type - A, H, L	Composite-T, S, B	Sample Type
N3500000	<u>1/17/18</u>		<u>10:45</u>					G

<input type="checkbox"/> BOD 310	mg/L	<input checked="" type="checkbox"/> Chloride 940	mg/L	<input checked="" type="checkbox"/> NH3 as N 610	<u>NS</u> mg/L	<input checked="" type="checkbox"/> Li-Lithium 1132	ug/L
<input type="checkbox"/> COD High 340	mg/L	<input type="checkbox"/> Chlorophyll a EPA 445.0 modified option	ug/L	<input checked="" type="checkbox"/> TKN as N 625	mg/L	<input checked="" type="checkbox"/> Mg- Magnesium 927	mg/L
<input type="checkbox"/> COD Low 335	mg/L	<input type="checkbox"/> Color: True 80	c.u.	<input checked="" type="checkbox"/> NO2 plus NO3 as N 630	mg/L	<input checked="" type="checkbox"/> Mn-Manganese 1055	ug/L
<input type="checkbox"/> Coliform: MF Fecal 31616	/100ml	<input type="checkbox"/> Color: pH 83 pH=	c.u.	<input checked="" type="checkbox"/> P- Total as P 665	<u>NS</u> mg/L	<input checked="" type="checkbox"/> Na- Sodium 929	mg/L
<input type="checkbox"/> Coliform: MF Total 31504	/100ml	<input type="checkbox"/> Color: pH 7.6 82	c.u.	<input checked="" type="checkbox"/> PO4 as P 70507	mg/L	<input checked="" type="checkbox"/> Arsenic: Total 1002	ug/L
<input type="checkbox"/> Coliform: tube Fecal 31615	/100ml	<input type="checkbox"/> Cyanide 720	mg/L	<input type="checkbox"/> P- Dissolved as P 666	mg/L	<input checked="" type="checkbox"/> Se- Selenium 1147	ug/L
<input checked="" type="checkbox"/> Residue: Total 500	mg/L	<input checked="" type="checkbox"/> Fluoride 951	mg/L	<input checked="" type="checkbox"/> K- Potassium	mg/L	<input checked="" type="checkbox"/> Hg- Mercury 71900	ug/L
<input type="checkbox"/> Volatile 505	mg/L	<input type="checkbox"/> Formaldehyde 71880	mg/L	<input checked="" type="checkbox"/> Cd- Cadmium 1027	ug/L	<input checked="" type="checkbox"/> Ba-Barium	ug/L
<input type="checkbox"/> Fixed 510	mg/L	<input type="checkbox"/> Grease and Oils 556	mg/L	<input checked="" type="checkbox"/> Cr-Chromium: Total 1034	ug/L	<input type="checkbox"/> Organochlorine Pesticides	
<input checked="" type="checkbox"/> Residue: Suspended 530	mg/L	<input type="checkbox"/> Hardness Total 900	mg/L	<input checked="" type="checkbox"/> Cu- Copper 1042	ug/L	<input type="checkbox"/> Organophosphorus Pesticides	
<input type="checkbox"/> Volatile 535	mg/L	<input type="checkbox"/> Specific Cond. 95	umhos/cm	<input checked="" type="checkbox"/> Ni- Nickel 1067	ug/L	<input type="checkbox"/> Organonitrogen Pesticides	
<input type="checkbox"/> Fixed 540	mg/L	<input type="checkbox"/> MBAS 38260	mg/L	<input checked="" type="checkbox"/> Pb- Lead 1051	ug/L	<input type="checkbox"/> Acid Herbicides	
<input type="checkbox"/> pH 403	units	<input type="checkbox"/> Phenols 32730	ug/L	<input checked="" type="checkbox"/> Zn- Zinc 1092	ug/L	<input type="checkbox"/> Base/Neutral & Acid Extractable Organics	
<input type="checkbox"/> Acidity to pH 4.5 436	mg/L	<input checked="" type="checkbox"/> Sulfate 945	mg/L	<input checked="" type="checkbox"/> V- Vanadium	ug/L	<input type="checkbox"/> TPH Diesel Range	
<input type="checkbox"/> Acidity to pH 8.3 435	mg/L	<input type="checkbox"/> Sulfide 745	mg/L	<input checked="" type="checkbox"/> Ag- Silver 1077	ug/L	<input type="checkbox"/> TPH Gasoline Range	
<input type="checkbox"/> Alkalinity to pH 8.3 415	mg/L	<input type="checkbox"/> Boron		<input checked="" type="checkbox"/> Al- Aluminum 1105	ug/L	<input type="checkbox"/> Purgeable Organics (VOA bottle req'd)	
<input type="checkbox"/> Alkalinity to pH 4.5 410	mg/L	<input type="checkbox"/> Tannin & Lignin	ug/L	<input checked="" type="checkbox"/> Be- Beryllium 1012	ug/L	<input type="checkbox"/> TPH Gasoline Range	
<input type="checkbox"/> TOC 680	mg/L	<input type="checkbox"/> Hexavalent Chromium	ug/L	<input checked="" type="checkbox"/> Ca- Calcium 916	mg/L	<input type="checkbox"/> TPH/BTEX Gasoline Range	
<input checked="" type="checkbox"/> Turbidity 76	NTU	<input type="checkbox"/> Bicarbonate	mg/L	<input checked="" type="checkbox"/> Co- Cobalt 1037	ug/L	<input type="checkbox"/> Phytoplankton	
<input type="checkbox"/> Coliform Total Tube	/100 ml	<input type="checkbox"/> Carbonate	mg/L	<input checked="" type="checkbox"/> Fe- Iron 1045	ug/L		
		<input checked="" type="checkbox"/> Total Dissolved Solids	mg/L	<input checked="" type="checkbox"/> Mo- Molybdenum	ug/L		
				<input checked="" type="checkbox"/> Sb- Antimony	ug/L		
				<input checked="" type="checkbox"/> Sn- Tin	ug/L		
				<input checked="" type="checkbox"/> Tl- Thallium	ug/L		
				<input checked="" type="checkbox"/> Ti- Titanium	ug/L		
				<input type="checkbox"/> Hg-1631	ng/L		

Temperature on arrival (°C): 3-9

COMMENTS : \_\_\_\_\_

County: <b>CASWELL</b>	 <b>Final Report</b>	Sample ID: <b>AC05115</b>	
River Basin: <b>ROA04</b>		PO Number #: <b>14W12578</b>	
Report To: <b>WSROSP</b>		Date Received: <b>02/18/2014</b>	
Collector: <b>J IVERSON</b>		Time Received: <b>13:15</b>	
Region: <b>WSRO</b>		Labworks LoginID: <b>MSWIFT</b>	
Sample Matrix: <b>SURFACEWATER</b>		Final Report Date: <b>2/27/14</b>	
Loc. Type: <b>RIVER/STREAM</b>		Report Print Date: <b>02/27/2014</b>	
Emergency Yes/No: <b>Yes</b>		VisitID	
COC Yes/No: <b>Yes</b>			
Loc. Descr.: <b>DAN R AT MILTON</b>			
Location ID: <b>N3500000</b>	Collect Date: <b>02/18/2014</b>	Collect Time: <b>11:42</b>	Sample Depth

**If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.**

CAS #	Analyte Name	PQL	Result/ Qualifier	Units	Method Reference	Analysis Date	Validated by
<b>MIC</b>							
	Turbidity	1.0	<b>39</b>	NTU	APHA2130B-20th	2/18/14	ESTAFFORD1
<b>WET</b>							
	Residue_Total in liquid	12	<b>119</b>	mg/L	SM 2540 B-1997	2/19/14	CGREEN
	Residue_Suspended in liquid	6.2	<b>30</b>	mg/L	SM 2540 D-1997	2/19/14	CGREEN
	Ion Chromatography		<b>_TITLE_</b>	mg/L	EPA 300.0 rev2.1	2/20/14	CGREEN
	Chloride	1.0	<b>14</b>	mg/L	EPA 300.0 rev2.1	2/20/14	CGREEN
	Fluoride	0.4	<b>0.4 U</b>	mg/L	EPA 300.0 rev2.1	2/20/14	CGREEN
	Sulfate	2.0	<b>4.5</b>	mg/L	EPA 300.0 rev2.1	2/20/14	CGREEN
	Total Dissolved Solids in liquid	12	<b>86</b>	mg/L	SM 2540 C-1997	2/20/14	CGREEN
<b>MET</b>							
7429-90-5	Al by ICP	50	<b>1800</b>	ug/L	EPA 200.7	2/24/14	ESTAFFORD1
7440-38-2	As by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7429-90-5	B by ICP	50	<b>72</b>	ug/L	EPA 200.7	2/25/14	ESTAFFORD1
7440-38-3	Ba by ICP	10	<b>40</b>	ug/L	EPA 200.7	2/24/14	ESTAFFORD1
7440-70-2	Ca by ICP	0.10	<b>7.0</b>	mg/L	EPA 200.7	2/24/14	ESTAFFORD1
7440-43-9	Cd by ICPMS	0.50	<b>0.50 U</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7440-47-3	Cr by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7440-50-8	Cu by ICPMS	2.0	<b>2.2</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7439-89-6	Fe by ICP	50	<b>2200</b>	ug/L	EPA 200.7	2/24/14	ESTAFFORD1
7440-09-7	K by ICP	0.10	<b>2.1</b>	mg/L	EPA 200.7	2/24/14	ESTAFFORD1
7439-95-4	Mg by ICP	0.10	<b>3.0</b>	mg/L	EPA 200.7	2/24/14	ESTAFFORD1
7439-96-5	Mn by ICP	10	<b>49</b>	ug/L	EPA 200.7	2/24/14	ESTAFFORD1
7440-23-5	Na by ICP	0.10	<b>8.1</b>	mg/L	EPA 200.7	2/24/14	ESTAFFORD1
7440-02-0	Ni by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7439-92-1	Pb by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7782-49-2	Se by ICPMS	5.0	<b>5.0 U</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7440-24-6	Sr by ICPMS	10	<b>47</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7440-28-0	Thallium (Tl) ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7440-32-6	Ti (Titanium) by ICP	10	<b>70</b>	ug/L	EPA 200.7	2/24/14	ESTAFFORD1
7440-62-2	V by ICP	25	<b>25 U</b>	ug/L	EPA 200.7	2/24/14	ESTAFFORD1
7440-66-6	Zn by ICP	10	<b>10 U</b>	ug/L	EPA 200.7	2/24/14	ESTAFFORD1

Laboratory Section>> 1623 Mail Service Center, Raleigh, NC 27699-1623 (919) 733-3908

For a detailed description of the qualifier codes refer to [http://portal.ncdenr.org/web/wq/lab/staffinfo/techassist#Data\\_Qualifier\\_Codes](http://portal.ncdenr.org/web/wq/lab/staffinfo/techassist#Data_Qualifier_Codes) <<http://portal.ncdenr.org/web/wq/lab/staffinfo/techassist>>



14W 12579

DIVISION OF WATER RESOURCES

Surface Water Fieldsheet

COUNTY : Caswell  
 RIVER BASIN : Roanoke 04  
 REPORT TO : Winston-Salem Regional Office  
 Other :  
 COLLECTOR(S) : Snider / Everson

PRIORITY  
 AMBIENT  QA  
 COMPLIANCE  CHAIN OF CUSTODY  
 EMERGENCY

SAMPLE TYPE  
 STREAM  EFFLUENT  
 LAKE  INFLUENT  
 ESTUARY

VISIT ID

4

Lab Number : ACOST116  
 Date Received : 2-18-2019  
 Time Received : 1:50  
 Received By : MS AS  
 Data Released :  
 Date Reported :

Estimated BOD Range:

Station Location: Dan R. at Milton N3500000

Seed: \_\_\_\_\_ Chlorinated: \_\_\_\_\_


Remarks: Dissolved Metals

Station #/Location Code	Date Begin (yy/mm/dd)	Date End (yy/mm/dd)	Time Begin	Time End	Depth - DM, DB, DBM	Value Type - A, H, L	Composite-T, S, B	Sample Type
N3500000	140218		1140					G

BOD 310	mg/L	Chloride 940	mg/L	NH3 as N 610	mg/L	<input checked="" type="checkbox"/>	Li-Lithium 1132	ug/L
COD High 340	mg/L			TKN an N 625	mg/L	<input checked="" type="checkbox"/>	Mg- Magnesium 927	mg/L
COD Low 335	mg/L	Chlorophyll a EPA 445.0 modified option	ug/L	NO2 plus NO3 as N 630	mg/L	<input checked="" type="checkbox"/>	Mn-Manganese 1055	ug/L
Coliform: MF Fecal 31616	/100ml			P: Total as P 665	mg/L	<input checked="" type="checkbox"/>	Na- Sodium 929	mg/L
Coliform: MF Total 31504	/100ml	Color: True 80	c.u.	PO4 as P 70507	mg/L	<input checked="" type="checkbox"/>	Arsenic: Total 1002	ug/L
Coliform: tube Fecal 31615	/100ml	Color: (pH) 83 pH=	c.u.	P: Dissolved as P 666	mg/L	<input checked="" type="checkbox"/>	Se- Selenium 1147	ug/L
Coliform: Fecal Strep 31673	/100ml	Color: pH 7.6 82	c.u.	<input checked="" type="checkbox"/> K-Potassium	mg/L	<input checked="" type="checkbox"/>	Hg- Mercury 71900	ug/L
Residue: Total 500	mg/L	Cyanide 720	mg/L	<input checked="" type="checkbox"/> Cd- Cadmium 1027	ug/L	<input checked="" type="checkbox"/>	Ba-Barium	ug/L
Volatile 505	mg/L	Fluoride 951	mg/L	<input checked="" type="checkbox"/> Cr-Chromium: Total 1034	ug/L		Organochlorine Pesticides	
Fixed 510	mg/L	Formaldehyde 71880	mg/L	<input checked="" type="checkbox"/> Cu- Copper 1042	ug/L		Organophosphorus Pesticides	
Residue: Suspended 530	mg/L	Grease and Oils 556	mg/L	<input checked="" type="checkbox"/> Ni-Nickel 1067	ug/L		Organonitrogen Pesticides	
Volatile 535	mg/L	Hardness Total 900	mg/L	<input checked="" type="checkbox"/> Pb- Lead 1051	ug/L		Acid Herbicides	
Fixed 540	mg/L	Specific Cond. 95	umhos/cm	<input checked="" type="checkbox"/> Zn- Zinc 1092	ug/L			
pH 403	units	MBAS 38260	mg/L	<input checked="" type="checkbox"/> V-Vanadium	ug/L		Base/Neutral & Acid Extractable Organics	
Acidity to pH 4.5 436	mg/L	Phenols 32730	ug/L	<input checked="" type="checkbox"/> Ag- Silver 1077	ug/L		TPH Diesel Range	
Acidity to pH 8.3 435	mg/L	Sulfate 945	mg/L	<input checked="" type="checkbox"/> Al- Aluminum 1105	ug/L			
Alkalinity to pH 8.3 415	mg/L	Sulfide 745	mg/L	<input checked="" type="checkbox"/> Be- Beryllium 1012	ug/L		Purgeable Organics (VOA bottle req'd)	
Alkalinity to pH 4.5 410	mg/L	Boron		<input checked="" type="checkbox"/> Ca- Calcium 916	mg/L		TPH Gasoline Range	
TOC 680	mg/L	Tannin & Lignin	ug/L	<input checked="" type="checkbox"/> Co- Cobalt 1037	ug/L		TPH/BTEX Gasoline Range	
Turbidity 76	NTU	Hexavalent Chromium	ug/L	<input checked="" type="checkbox"/> Fe- Iron 1045	ug/L		Phytoplankton	
Coliform Total Tube	/100 ml	Bicarbonate	mg/L	<input checked="" type="checkbox"/> Mo-Molybdenum	ug/L			
		Carbonate	mg/L	<input checked="" type="checkbox"/> Sb-Antimony	ug/L			
		Total Dissolved Solids	mg/L	<input checked="" type="checkbox"/> Sn-Tin	ug/L			
				<input checked="" type="checkbox"/> Tl-Thallium	ug/L			
				<input checked="" type="checkbox"/> Ti-Titanium	ug/L			
				Hg-1631	ng/L			

Temperature on arrival (°C): 3.9

COMMENTS:

County: <b>CASWELL</b>	 <b>Final Report</b>	Sample ID: <b>AC05116</b>
River Basin: <b>ROA04</b>		PO Number #: <b>14W12579</b>
Report To: <b>WSROSP</b>		Date Received: <b>02/18/2014</b>
Collector: <b>J IVERSON</b>		Time Received: <b>13:15</b>
Region: <b>WSRO</b>		Labworks LoginID: <b>MSWIFT</b>
Sample Matrix: <b>SURFACEWATER</b>		Final Report Date: <b>2/27/14</b>
Loc. Type: <b>RIVER/STREAM</b>		Report Print Date: <b>02/27/2014</b>
Emergency Yes/No: <u>Yes</u>		VisitID
COC Yes/No: <u>Yes</u>		
Loc. Descr.: <b>DAN R AT MILTON</b>		

Location ID: <b>N3500000</b>	Collect Date: <b>02/18/2014</b>	Collect Time: <b>11:42</b>	Sample Depth
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**If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.**

CAS #	Analyte Name	PQL	Result/ Qualifier	Units	Method Reference	Analysis Date	Validated by
<b>LAB</b>							
	Sample temperature at receipt by lab		<b>3.9</b>	°C		2/18/14	MSWIFT
<b>MET</b>							
7440-38-2	As- Dissolved by ICPMS Arsenic	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7440-70-2	Ca-Dissolved Calcium by ICP	0.10	<b>6.7</b>	mg/L	EPA 200.7	2/24/14	ESTAFFORD1
7440-43-9	Cd- Dissolved Cadmium by ICPMS	0.50	<b>0.50 U</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7440-47-3	Cr- Dissolved Chromium by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7440-50-8	Cu- Dissolved Copper by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7439-89-6	Fe- Dissolved Iron by ICP	50	<b>58</b>	ug/L	EPA 200.7	2/24/14	ESTAFFORD1
7440-09-7	K-Dissolved Potassium by ICP	0.10	<b>1.9</b>	mg/L	EPA 200.7	2/24/14	ESTAFFORD1
7439-95-4	Mg- Dissolved Magnesium by ICP	0.10	<b>2.7</b>	mg/L	EPA 200.7	2/24/14	ESTAFFORD1
7439-96-5	Dissolved Mn by ICP	10	<b>13</b>	ug/L	EPA 200.7	2/24/14	ESTAFFORD1
7440-23-5	Na-Dissolved Sodium by ICP	0.10	<b>8.0</b>	mg/L	EPA 200.7	2/24/14	ESTAFFORD1
7440-02-0	Ni-Dissolved Nickel by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7439-92-1	Pb-Dissolved Lead by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7782-49-2	Se-Dissolved Selenium by ICPMS	5.0	<b>5.0 U</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7429-90-5	Al - Dissolved Aluminum by ICP	50	<b>50 U</b>	ug/L	EPA 200.7	2/24/14	ESTAFFORD1
7429-90-5	B by ICP	50	<b>72</b>	ug/L	EPA 200.7	2/25/14	ESTAFFORD1
7440-38-3	Ba- Dissolved Barium by ICP	10	<b>24</b>	ug/L	EPA 200.7	2/24/14	ESTAFFORD1
	Stronium Dissolved by ICPMS	10	<b>52</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7440-28-0	Thallium (Tl) Dissolved by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	2/26/14	ESTAFFORD1
7440-32-6	Ti (Titanium) Dissolved by ICP	10	<b>10 U</b>	ug/L	EPA 200.7	2/24/14	ESTAFFORD1
7440-62-2	V Dissolved by ICP	25	<b>25 U</b>	ug/L	EPA 200.7	2/24/14	ESTAFFORD1
7440-66-6	Zn-Dissolved Zinc by ICP	10	<b>10 U</b>	ug/L	EPA 200.7	2/24/14	ESTAFFORD1

14412587

DIVISION OF WATER RESOURCES

Surface Water Fieldsheet

COUNTY : Caswell  
 RIVER BASIN : Roanoke 04  
 REPORT TO : Winston-Salem Regional Office  
 Other :  
 COLLECTOR(S) : Snyder/Person

PRIORITY  
 AMBIENT  QA  
 COMPLIANCE  CHAIN OF CUSTODY  
 EMERGENCY VISIT ID

SAMPLE TYPE  
 STREAM  EFFLUENT  
 LAKE  INFLUENT  
 ESTUARY

4

Lab Number : AC05124  
 Date Received : 2-18-14  
 Time Received : 1:31 P  
 Received By : AK  
 Data Released :  
 Date Reported :

Estimated BOD Range:

Station Location: Dan R. at Milton N 3500000

Seed: \_\_\_\_\_ Chlorinated: \_\_\_\_\_

Remarks: 431 Hg 118 Mercury sample

Station #/Location Code	Date Begin (yy/mm/dd)	Date End (yy/mm/dd)	Time Begin	Time End	Depth - DM, DB, DBM	Value Type - A, H, L	Composite-T, S, B	Sample Type
N3500000	<u>14/02/18</u>		<u>11:35</u>					G

BOD 310	mg/L	Chloride 940	mg/L	NH3 as N 610	mg/L	Li-Lithium 1132	ug/L
COD High 340	mg/L			TKN an N 625	mg/L	Mg- Magnesium 927	mg/L
COD Low 335	mg/L	Chlorophyll a EPA 445.0 modified option	ug/L	NO2 plus NO3 as N 630	mg/L	Mn-Manganese 1055	ug/L
Coliform: MF Fecal 31616	/100ml			P: Total as P 665	mg/L	Na- Sodium 929	mg/L
Coliform: MF Total 31504	/100ml	Color: True 80	c.u.	PO4 as P 70507	mg/L	Arsenic:Total 1002	ug/L
Coliform: tube Fecal 31615	/100ml	Color: (pH ) 83 pH=	c.u.	P: Dissolved as P 666	mg/L	Se- Selenium 1147	ug/L
Coliform: Fecal Strep 31673	/100ml	Color: pH 7.6 82	c.u.	K-Potassium	mg/L	Hg- Mercury 71900	ug/L
Residue: Total 500	mg/L	Cyanide 720	mg/L	Cd- Cadmium 1027	ug/L	Ba-Barium	ug/L
Volatile 505	mg/L	Fluoride 951	mg/L	Cr-Chromium:Total 1034	ug/L	Organochlorine Pesticides	
Fixed 510	mg/L	Formaldehyde 71880	mg/L	Cu- Copper 1042	ug/L	Organophosphorus Pesticides	
Residue: Suspended 530	mg/L	Grease and Oils 556	mg/L	Ni-Nickel 1067	ug/L	Organonitrogen Pesticides	
Volatile 535	mg/L	Hardness Total 900	mg/L	Pb- Lead 1051	ug/L	Acid Herbicides	
Fixed 540	mg/L	Specific Cond. 95	umhos/cm	Zn- Zinc 1092	ug/L		
pH 403	units	MBAS 38260	mg/L	V-Vanadium	ug/L	Base/Neutral&Acid Extractable Organics	
Acidity to pH 4.5 436	mg/L	Phenols 32730	ug/L	Ag- Silver 1077	ug/L	TPH Diesel Range	
Acidity to pH 8.3 435	mg/L	Sulfate 945	mg/L	Al- Aluminum 1105	ug/L		
Alkalinity to pH 8.3 415	mg/L	Sulfide 745	mg/L	Be- Beryllium 1012	ug/L	Purgeable Organics (VOA bottle req'd)	
Alkalinity to pH 4.5 410	mg/L	Boron		Ca- Calcium 916	mg/L	TPH Gasoline Range	
TOC 680	mg/L	Tannin & Lignin	ug/L	Co- Cobalt 1037	ug/L	TPH/BTEX Gasoline Range	
Turbidity 76	NTU	Hexavalent Chromium	ug/L	Fe- Iron 1045	ug/L	Phytoplankton	
Coliform Total Tube	/100 ml	Bicarbonate	mg/L	Mo-Molybdenum	ug/L		
		Carbonate	mg/L	Sb-Antimony	ug/L		
		Total Dissolved Solids	mg/L	Sn-Tin	ug/L		
				Tl-Thallium	ug/L		
				Ti-Titanium	ug/L		
				<input checked="" type="checkbox"/> Hg-1631	ng/L	Temperature on arrival (°C):	

COMMENTS : SEOS 1199

County: CASWELL  
 River Basin: ROA04  
 Report To: WSROSP  
 Collector: J IVERSON  
 Region: WSRO  
 Sample Matrix: SURFACEWATER  
 Loc. Type: RIVER/STREAM  
 Emergency Yes/No: Yes  
 COC Yes/No: Yes



Sample ID: **AC05124**  
 PO Number #: **14W12587**  
 Date Received: **02/18/2014**  
 Time Received: **13:15**  
 Labworks LoginID: **MSWIFT**  
 Final Report Date: **3/3/14**  
 Report Print Date: **03/03/2014**

**Final Report**

VisitID

Loc. Descr.: DAN R. AT MILTON

Location ID: <b>N3500000</b>	Collect Date: <b>02/18/2014</b>	Collect Time: <b>11:35</b>	Sample Depth
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***If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.***

<u>CAS #</u>	<u>Analyte Name</u>	<u>PQL</u>	<u>Result/ Qualifier</u>	<u>Units</u>	<u>Method Reference</u>	<u>Analysis Date</u>	<u>Validated by</u>
<b>MET</b>							
7439-97-6	Hg 1631	1.00	<b>5.19</b>	ng/L	EPA 1631E	2/28/14	ESTAFFORD1

# EMER/COC

14W12680

DIVISION OF WATER RESOURCES  
Surface Water Fieldsheet

COUNTY : Caswell  
 RIVER BASIN : Roanoke 04  
 REPORT TO : Winston-Salem Regional Office  
 Other :  
 COLLECTOR(S) : DAVE POWERS / J. GRAYSON

PRIORITY  
 AMBIENT     QA  
 COMPLIANCE     CHAIN OF CUSTODY  
 EMERGENCY    VISIT ID

SAMPLE TYPE  
 STREAM     EFFLUENT  
 LAKE     INFLUENT  
 ESTUARY


Lab Number : AC05724  
 Date Received : 2-20-19  
 Time Received : 8:50  
 Received By : MP  
 Data Released :  
 Date Reported :

Estimated BOD Range: \_\_\_\_\_ Station Location: Dan R. at Milton N 3500000  
 Seed: \_\_\_\_\_ Chlorinated: \_\_\_\_\_ Remarks: \_\_\_\_\_

Station #/Location Code	Date Begin (yy/mm/dd)	Date End (yy/mm/dd)	Time Begin	Time End	Depth - DM, DB, DBM	Value Type - A, H, L	Composite-T, S, B	Sample Type
N3500000	4/2/19		1420					G

BOD 310	mg/L	<input checked="" type="checkbox"/> Chloride 940	mg/L	<input checked="" type="checkbox"/> NH3 as N 610	mg/L	<input checked="" type="checkbox"/> Li-Lithium 1132	ug/L
COD High 340	mg/L			<input checked="" type="checkbox"/> TKN as N 625	mg/L	<input checked="" type="checkbox"/> Mg- Magnesium 927	mg/L
COD Low 335	mg/L	Chlorophyll a EPA 445.0 modified option	ug/L	<input checked="" type="checkbox"/> NO2 plus NO3 as N 630	mg/L	<input checked="" type="checkbox"/> Mn-Manganese 1055	ug/L
Coliform: MF Fecal 31616	/100ml			<input checked="" type="checkbox"/> P- Total as P 665	mg/L	<input checked="" type="checkbox"/> Na- Sodium 929	mg/L
Coliform: MF Total 31504	/100ml	Color: True 80	c.u.	PO4 as P 70507	mg/L	<input checked="" type="checkbox"/> Arsenic: Total 1002	ug/L
Coliform: tube Fecal 31615	/100ml	Color: pH 7.6 82	c.u.	<input checked="" type="checkbox"/> P- Dissolved as P 666	mg/L	<input checked="" type="checkbox"/> Se- Selenium 1147	ug/L
Coliform: Fecal Strep 31673	/100ml	Cyanide 720	mg/L	<input checked="" type="checkbox"/> K- Potassium	ug/L	<input checked="" type="checkbox"/> Hg- Mercury 71900	ug/L
<input checked="" type="checkbox"/> Residue: Total 500	mg/L	<input checked="" type="checkbox"/> Fluoride 951	mg/L	<input checked="" type="checkbox"/> Cd- Cadmium 1027	ug/L	<input checked="" type="checkbox"/> Ba-Barium	ug/L
Volatile 505	mg/L	Formaldehyde 71880	mg/L	<input checked="" type="checkbox"/> Cr-Chromium: Total 1034	ug/L	Organochlorine Pesticides	
Fixed 510	mg/L	Grease and Oils 556	mg/L	<input checked="" type="checkbox"/> Cu- Copper 1042	ug/L	Organophosphorus Pesticides	
<input checked="" type="checkbox"/> Residue: Suspended 530	mg/L	Hardness Total 900	mg/L	<input checked="" type="checkbox"/> Ni-Nickel 1067	ug/L	Organonitrogen Pesticides	
Volatile 535	mg/L	Specific Cond. 95	umhos/cm	<input checked="" type="checkbox"/> Pb- Lead 1051	ug/L	Acid Herbicides	
Fixed 540	mg/L	MBAS 38260	mg/L	<input checked="" type="checkbox"/> Zn- Zinc 1092	ug/L		
pH 403	units	Phenols 32730	ug/L	<input checked="" type="checkbox"/> V-Vanadium	ug/L	Base/Neutral&Acid Extractable Organics	
Acidity to pH 4.5 436	mg/L	<input checked="" type="checkbox"/> Sulfate 945	mg/L	<input checked="" type="checkbox"/> Ag- Silver 1077	ug/L	TPH Diesel Range	
Acidity to pH 8.3 435	mg/L	Sulfide 745	mg/L	<input checked="" type="checkbox"/> Al- Aluminum 1105	ug/L		
Alkalinity to pH 8.3 415	mg/L	Boron		<input checked="" type="checkbox"/> Be- Beryllium 1012	ug/L	Purgeable Organics (VOA bottle req'd)	
Alkalinity to pH 4.5 410	mg/L	Tannin & Lignin	ug/L	<input checked="" type="checkbox"/> Ca- Calcium 916	mg/L	TPH Gasoline Range	
TOC 680	mg/L	Hexavalent Chromium	ug/L	<input checked="" type="checkbox"/> Co- Cobalt 1037	ug/L	TPH/BTEX Gasoline Range	
<input checked="" type="checkbox"/> Turbidity 76	NTU	Bicarbonate	mg/L	<input checked="" type="checkbox"/> Fe- Iron 1045	ug/L	Phytoplankton	
Coliform Total Tube	/100 ml	Carbonate	mg/L	<input checked="" type="checkbox"/> Mo-Molybdenum	ug/L		
		<input checked="" type="checkbox"/> Total Dissolved Solids	mg/L	<input checked="" type="checkbox"/> Sb-Antimony	ug/L		
				<input checked="" type="checkbox"/> Sn-Tin	ug/L		
				<input checked="" type="checkbox"/> Tl-Thallium	ug/L		
				<input checked="" type="checkbox"/> Ti-Titanium	ug/L		
				Hg-1631	ng/L	Temperature on arrival (°C):	<u>6.9</u>

COMMENTS : \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

County: <b>CASWELL</b>	 <b>Division of Water Resources</b> <b>Final Report</b>	Sample ID: <b>AC05224</b>				
River Basin: <b>ROA04</b>		PO Number #: <b>14W12680</b>				
Report To: <b>WSROSP</b>		Date Received: <b>02/20/2014</b>				
Collector: <b>J IVERSON</b>		Time Received: <b>08:50</b>				
Region: <b>WSRO</b>		Labworks LoginID: <b>MSWIFT</b>				
Sample Matrix: <b>SURFACEWATER</b>		Final Report Date: <b>3/11/14</b>				
Loc. Type: <b>RIVER/STREAM</b>		Report Print Date: <b>03/11/2014</b>				
Emergency Yes/No: <b>Yes</b>		VisitID				
COC Yes/No: <b>Yes</b>		Loc. Descr.: <b>DAN R. AT MILTON</b>				
<table border="1"> <tr> <td>Location ID: <b>N3500000</b></td> <td>Collect Date: <b>02/19/2014</b></td> <td>Collect Time: <b>14:20</b></td> <td>Sample Depth</td> </tr> </table>			Location ID: <b>N3500000</b>	Collect Date: <b>02/19/2014</b>	Collect Time: <b>14:20</b>	Sample Depth
Location ID: <b>N3500000</b>	Collect Date: <b>02/19/2014</b>	Collect Time: <b>14:20</b>	Sample Depth			

**If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.**

CAS #	Analyte Name	PQL	Result/ Qualifier	Units	Method Reference	Analysis Date	Validated by
<b>LAB</b>							
	Sample temperature at receipt by lab		<b>0.9</b>	°C		2/20/14	MSWIFT
<b>MIC</b>							
	Turbidity	1.0	<b>30</b>	NTU	APHA2130B-20th	2/20/14	ESTAFFORD1
<b>WET</b>							
	Residue_Total in liquid	12	<b>125</b>	mg/L	SM 2540 B-1997	2/21/14	MOVERMAN
	Residue_Suspended in liquid	6.2	<b>43</b>	mg/L	SM 2540 D-1997	2/20/14	CGREEN
	Ion Chromatography		<b>_TITLE_</b>	mg/L	EPA 300.0 rev2.1	2/25/14	CGREEN
	Chloride	1.0	<b>14</b>	mg/L	EPA 300.0 rev2.1	2/25/14	CGREEN
	Fluoride	0.4	<b>0.4 U</b>	mg/L	EPA 300.0 rev2.1	2/25/14	CGREEN
	Sulfate	2.0	<b>5.7</b>	mg/L	EPA 300.0 rev2.1	2/25/14	CGREEN
	Total Dissolved Solids in liquid	12	<b>87</b>	mg/L	SM 2540 C-1997	2/20/14	CGREEN
<b>MET</b>							
7429-90-5	Al by ICP	50	<b>2000</b>	ug/L	EPA 200.7	2/27/14	ESTAFFORD1
7440-38-2	As by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7429-90-5	B by ICP	50	<b>78</b>	ug/L	EPA 200.7	2/26/14	ESTAFFORD1
7440-38-3	Ba by ICP	10	<b>46</b>	ug/L	EPA 200.7	2/25/14	ESTAFFORD1
7440-70-2	Ca by ICP	0.10	<b>7.0</b>	mg/L	EPA 200.7	2/25/14	ESTAFFORD1
7440-43-9	Cd by ICPMS	0.50	<b>0.50 U</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7440-47-3	Cr by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7440-50-8	Cu by ICPMS	2.0	<b>2.9</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7439-89-6	Fe by ICP	50	<b>2500</b>	ug/L	EPA 200.7	2/27/14	ESTAFFORD1
7440-09-7	K by ICP	0.10	<b>2.1</b>	mg/L	EPA 200.7	2/25/14	ESTAFFORD1
7439-95-4	Mg by ICP	0.10	<b>2.9</b>	mg/L	EPA 200.7	2/25/14	ESTAFFORD1
7439-96-5	Mn by ICP	10	<b>59</b>	ug/L	EPA 200.7	2/27/14	ESTAFFORD1
7440-23-5	Na by ICP	0.10	<b>7.9</b>	mg/L	EPA 200.7	2/25/14	ESTAFFORD1
7440-02-0	Ni by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7439-92-1	Pb by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7782-49-2	Se by ICPMS	5.0	<b>5.0 U</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7440-24-6	Sr by ICPMS	10	<b>50</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7440-28-0	Thallium (Tl) ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7440-32-6	Ti (Titanium) by ICP	10	<b>180</b>	ug/L	EPA 200.7	2/27/14	ESTAFFORD1

*NC DWR, Laboratory Section Results*

Location ID: **N3500000**      Sample ID: **AC05224**      Collect Date: **02/19/2014**      Collect Time: **14:20**

**MET**

<u>CAS #</u>	<u>Analyte Name</u>	<u>PQL</u>	<u>Result/ Qualifier</u>	<u>Units</u>	<u>Method Reference</u>	<u>Analysis Date</u>	<u>Validated by</u>
7440-62-2	V by ICP	25	<b>25 U</b>	ug/L	EPA 200.7	2/27/14	ESTAFFORD1
7440-66-6	Zn by ICP	10	<b>10 U</b>	ug/L	EPA 200.7	2/27/14	ESTAFFORD1

# EMER/COL

DIVISION OF WATER RESOURCES  
Surface Water Fieldsheet

14W 12681

COUNTY : Caswell  
 RIVER BASIN : Roanoke 04  
 REPORT TO : Winston-Salem Regional Office  
 Other :  
 COLLECTOR(S) : STEWART G. BARNAK

PRIORITY  
 AMBIENT  QA  
 COMPLIANCE  CHAIN OF CUSTODY  
 EMERGENCY VISIT ID

SAMPLE TYPE  
 STREAM  EFFLUENT  
 LAKE  INFLUENT  
 ESTUARY

Lab Number : AC05225  
 Date Received : 2-20-14  
 Time Received : 8:50  
 Received By : MJS  
 Data Released :  
 Date Reported :

Estimated BOD Range:

Station Location: Dan R. at Milton N35 00000

4

Seed: \_\_\_\_\_ Chlorinated: \_\_\_\_\_

Remarks: Dissolved Metals


Station #/Location Code	Date Begin (yy/mm/dd)	Date End (yy/mm/dd)	Time Begin	Time End	Depth - DM, DB, DBM	Value Type - A, H, L	Composite-T, S, B	Sample Type
N3500000	14/2/19		1420					G

BOD 310 mg/L	Chloride 940 mg/L	NH3 as N 610 mg/L	<input checked="" type="checkbox"/>	Li-Lithium 1132 ug/L
COD High 340 mg/L		TKN an N 625 mg/L	<input checked="" type="checkbox"/>	Mg- Magnesium 927 mg/L
COD Low 335 mg/L	Chlorophyll a EPA 445.0 modified option ug/L	NO2 plus NO3 as N 630 mg/L	<input checked="" type="checkbox"/>	Mn-Manganese 1055 ug/L
Coliform: MF Fecal 31616 /100ml		P: Total as P 665 mg/L	<input checked="" type="checkbox"/>	Na- Sodium 929 mg/L
Coliform: MF Total 31504 /100ml	Color: True 80 c.u.	PO4 as P 70507 mg/L	<input checked="" type="checkbox"/>	Arsenic: Total 1002 ug/L
Coliform: tube Fecal 31615 /100ml	Color: (pH ) 83 pH= c.u.	P: Dissolved as P 666 mg/L	<input checked="" type="checkbox"/>	Se- Selenium 1147 ug/L
Coliform: Fecal Strep 31673 /100ml	Color: pH 7.6 82 c.u.	K-Potassium mg/L	<input checked="" type="checkbox"/>	Hg- Mercury 71900 ug/L
Residue: Total 500 mg/L	Cyanide 720 mg/L	Cd- Cadmium 1027 ug/L	<input checked="" type="checkbox"/>	Ba-Barium ug/L
Volatile 505 mg/L	Fluoride 951 mg/L	Cr-Chromium: Total 1034 ug/L	<input checked="" type="checkbox"/>	Organochlorine Pesticides
Fixed 510 mg/L	Formaldehyde 71880 mg/L	Cu- Copper 1042 ug/L	<input checked="" type="checkbox"/>	Organophosphorus Pesticides
Residue: Suspended 530 mg/L	Grease and Oils 556 mg/L	Ni-Nickel 1067 ug/L	<input checked="" type="checkbox"/>	Organonitrogen Pesticides
Volatile 535 mg/L	Hardness Total 900 mg/L	Pb- Lead 1051 ug/L	<input checked="" type="checkbox"/>	Acid Herbicides
Fixed 540 mg/L	Specific Cond. 95 umhos/cm	Zn- Zinc 1092 ug/L	<input checked="" type="checkbox"/>	
pH 403 units	MBAS 38260 mg/L	V-Vanadium ug/L	<input checked="" type="checkbox"/>	Base/Neutral & Acid Extractable Organics
Acidity to pH 4.5 436 mg/L	Phenols 32730 ug/L	Ag- Silver 1077 ug/L	<input checked="" type="checkbox"/>	TPH Diesel Range
Acidity to pH 8.3 435 mg/L	Sulfate 945 mg/L	Al- Aluminum 1105 ug/L	<input checked="" type="checkbox"/>	
Alkalinity to pH 8.3 415 mg/L	Sulfide 745 mg/L	Be- Beryllium 1012 ug/L	<input checked="" type="checkbox"/>	Purgeable Organics (VOA bottle req'd)
Alkalinity to pH 4.5 410 mg/L	Boron	Ca- Calcium 916 mg/L	<input checked="" type="checkbox"/>	TPH Gasoline Range
TOC 680 mg/L	Tannin & Lignin ug/L	Co- Cobalt 1037 ug/L	<input checked="" type="checkbox"/>	TPH/BTEX Gasoline Range
Turbidity 76 NTU	Hexavalent Chromium ug/L	Fe- Iron 1045 ug/L	<input checked="" type="checkbox"/>	Phytoplankton
Coliform Total Tube /100 ml	Bicarbonate mg/L	Mo-Molybdenum ug/L	<input checked="" type="checkbox"/>	
	Carbonate mg/L	Sb-Antimony ug/L	<input checked="" type="checkbox"/>	
	Total Dissolved Solids mg/L	Sn-Tin ug/L	<input checked="" type="checkbox"/>	
		Tl-Thallium ug/L	<input checked="" type="checkbox"/>	
		Ti-Titanium ug/L	<input checked="" type="checkbox"/>	
		Hg-1631 ng/L	<input checked="" type="checkbox"/>	

Temperature on arrival (°C): 0.9

COMMENTS :



County: <b>CASWELL</b>	 <b>Division of Water Resources</b> <b>Final Report</b>	Sample ID: <b>AC05225</b>	
River Basin: <b>ROA04</b>		PO Number #: <b>14W12681</b>	
Report To: <b>WSROSP</b>		Date Received: <b>02/20/2014</b>	
Collector: <b>JIVERSON</b>		Time Received: <b>08:50</b>	
Region: <b>WSRO</b>		Labworks LoginID: <b>MSWIFT</b>	
Sample Matrix: <b>SURFACEWATER</b>		Final Report Date: <b>3/11/14</b>	
Loc. Type: <b>RIVER/STREAM</b>		Report Print Date: <b>03/11/2014</b>	
Emergency Yes/No: <b>Yes</b>		VisitID	
COC Yes/No: <b>Yes</b>			
Loc. Descr.: <b>DAN R. AT MILTON</b>			
Location ID: <b>N3500000</b>	Collect Date: <b>02/19/2014</b>	Collect Time: <b>14:20</b>	Sample Depth
<b>If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.</b>			

CAS #	Analyte Name	PQL	Result/ Qualifier	Units	Method Reference	Analysis Date	Validated by
<b>LAB</b>							
	Sample temperature at receipt by lab		<b>0.9</b>	°C		2/20/14	MSWIFT
<b>MET</b>							
7440-38-2	As- Dissolved by ICPMS Arsenic	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7440-70-2	Ca-Dissolved Calcium by ICP	0.10	<b>6.8</b>	mg/L	EPA 200.7	2/25/14	ESTAFFORD1
7440-43-9	Cd- Dissolved Cadmium by ICPMS	0.50	<b>0.50 U</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7440-47-3	Cr- Dissolved Chromium by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7440-50-8	Cu- Dissolved Copper by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7439-89-6	Fe- Dissolved Iron by ICP	50	<b>370</b>	ug/L	EPA 200.7	2/27/14	ESTAFFORD1
7440-09-7	K-Dissolved Potassium by ICP	0.10	<b>1.8</b>	mg/L	EPA 200.7	2/25/14	ESTAFFORD1
7439-95-4	Mg- Dissolved Magnesium by ICP	0.10	<b>2.7</b>	mg/L	EPA 200.7	2/25/14	ESTAFFORD1
7439-96-5	Dissolved Mn by ICP	10	<b>22</b>	ug/L	EPA 200.7	2/27/14	ESTAFFORD1
7440-23-5	Na-Dissolved Sodium by ICP	0.10	<b>8.0</b>	mg/L	EPA 200.7	2/25/14	ESTAFFORD1
7440-02-0	Ni-Dissolved Nickel by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7439-92-1	Pb-Dissolved Lead by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7782-49-2	Se-Dissolved Selenium by ICPMS	5.0	<b>5.0 U</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7429-90-5	Al - Dissolved Aluminum by ICP	50	<b>220</b>	ug/L	EPA 200.7	2/27/14	ESTAFFORD1
7429-90-5	B by ICP	50	<b>79</b>	ug/L	EPA 200.7	2/26/14	ESTAFFORD1
7440-38-3	Ba- Dissolved Barium by ICP	10	<b>28</b>	ug/L	EPA 200.7	2/25/14	ESTAFFORD1
	Stronium Dissolved by ICPMS	10	<b>55</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7440-28-0	Thallium (TI) Dissolved by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7440-32-6	Ti (Titanium) Dissolved by ICP	10	<b>21</b>	ug/L	EPA 200.7	2/27/14	ESTAFFORD1
7440-62-2	V Dissolved by ICP	25	<b>25 U</b>	ug/L	EPA 200.7	2/27/14	ESTAFFORD1
7440-66-6	Zn-Dissolved Zinc by ICP	10	<b>10 U</b>	ug/L	EPA 200.7	2/27/14	ESTAFFORD1

DIVISION OF WATER RESOURCES

Surface Water Fieldsheet

COUNTY : Caswell  
 RIVER BASIN : Roanoke 04  
 REPORT TO : Winston-Salem Regional Office  
 Other : J. PERSON / J. GRAZMAK  
 COLLECTOR(S) : [REDACTED]

PRIORITY  
 AMBIENT  QA  
 COMPLIANCE  CHAIN OF CUSTODY  
 EMERGENCY

VISIT ID

SAMPLE TYPE  
 STREAM  EFFLUENT  
 LAKE  INFLUENT  
 ESTUARY

4

Lab Number AC05246  
 Date Received : 2-20-14  
 Time Received : 8:50  
 Received By : [Signature]  
 Data Released :  
 Date Reported :

Estimated BOD Range:

Station Location: Dan R. at Milton N 3500000

Seed: \_\_\_\_\_ Chlorinated: \_\_\_\_\_

Remarks: ( ) Mercury sample HBI Hg 122

Station #/Location Code	Date Begin (yy/mm/dd)	Date End (yy/mm/dd)	Time Begin	Time End	Depth - DM, DB, DBM	Value Type - A, H, L	Composite-T, S, B	Sample Type
N3500000	<u>14/2/14</u>		<u>1415</u>					G

BOD 310	mg/L	Chloride 940	mg/L	NH3 as N 610	mg/L	Li-Lithium 1132	ug/L
COD High 340	mg/L			TKN an N 625	mg/L	Mg- Magnesium 927	mg/L
COD Low 335	mg/L	Chlorophyll a EPA 445.0 modified option	ug/L	NO2 plus NO3 as N 630	mg/L	Mn-Manganese 1055	ug/L
Coliform: MF Fecal 31616	/100ml			P: Total as P 665	mg/L	Na- Sodium 929	mg/L
Coliform: MF Total 31504	/100ml	Color: True 80	c.u.	PO4 as P 70507	mg/L	Arsenic: Total 1002	ug/L
Coliform: tube Fecal 31615	/100ml	Color: (pH ) 83 pH=	c.u.	P: Dissolved as P 666	mg/L	Se- Selenium 1147	ug/L
Coliform: Fecal Strep 31673	/100ml	Color: pH 7.6 82	c.u.	K- Potassium	mg/L	Hg- Mercury 71900	ug/L
Residue: Total 500	mg/L	Cyanide 720	mg/L	Cd- Cadmium 1027	ug/L	Ba- Barium	ug/L
Volatile 505	mg/L	Fluoride 951	mg/L	Cr- Chromium: Total 1034	ug/L	Organochlorine Pesticides	
Fixed 510	mg/L	Formaldehyde 71880	mg/L	Cu- Copper 1042	ug/L	Organophosphorus Pesticides	
Residue: Suspended 530	mg/L	Grease and Oils 556	mg/L	Ni- Nickel 1067	ug/L	Organonitrogen Pesticides	
Volatile 535	mg/L	Hardness Total 900	mg/L	Pb- Lead 1051	ug/L	Acid Herbicides	
Fixed 540	mg/L	Specific Cond. 95	umhos/cm	Zn- Zinc 1092	ug/L		
pH 403	units	MBAS 38260	mg/L	V- Vanadium	ug/L	Base/Neutral&Acid Extractable Organics	
Acidity to pH 4.5 436	mg/L	Phenols 32730	ug/L	Ag- Silver 1077	ug/L	TPH Diesel Range	
Acidity to pH 8.3 435	mg/L	Sulfate 945	mg/L	Al- Aluminum 1105	ug/L		
Alkalinity to pH 8.3 415	mg/L	Sulfide 745	mg/L	Be- Beryllium 1012	ug/L	Purgeable Organics (VOA bottle req'd)	
Alkalinity to pH 4.5 410	mg/L	Boron		Ca- Calcium 916	mg/L	TPH Gasoline Range	
TOC 680	mg/L	Tannin & Lignin	ug/L	Co- Cobalt 1037	ug/L	TPH/BTEX Gasoline Range	
Turbidity 76	NTU	Hexavalent Chromium	ug/L	Fe- Iron 1045	ug/L	Phytoplankton	
Coliform Total Tube	/100 ml	Bicarbonate	mg/L	Mo- Molybdenum	ug/L		
		Carbonate	mg/L	Sb- Antimony	ug/L		
		Total Dissolved Solids	mg/L	Sn- Tin	ug/L		
				Tl- Thallium	ug/L		
				Ti- Titanium	ug/L		
				X Hg-1631	ng/L	Temperature on arrival (°C):	

COMMENTS: SEOF 499 SAMPLE TAKEN FROM BRIDGE VIA BRIDGE SAMPLER  
WILDLIFE COMMISSION WAS HOISING SEDIMENT OFF DOAT RAMP

County: CASWELL  
 River Basin: ROA04  
 Report To: WSROSP  
 Collector: J IVERSON  
 Region: WSRO  
 Sample Matrix: SURFACEWATER  
 Loc. Type: RIVER/STREAM  
 Emergency Yes/No: YES  
 COC Yes/No: YES



Sample ID: **AC05240**  
 PO Number #: **14W12692**  
 Date Received: **02/20/2014**  
 Time Received: **08:50**  
 Labworks LoginID: **TASCENZO**  
 Final Report Date: **3/6/14**  
 Report Print Date: **03/06/2014**

**Final Report**

VisitID

Loc. Descr.: DAN RIV AT MILTON

Location ID: <b>N3500000</b>	Collect Date: <b>02/19/2014</b>	Collect Time: <b>14:15</b>	Sample Depth
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***If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.***

<u>CAS #</u>	<u>Analyte Name</u>	<u>PQL</u>	<u>Result/ Qualifier</u>	<u>Units</u>	<u>Method Reference</u>	<u>Analysis Date</u>	<u>Validated by</u>
<b>MET</b>							
7439-97-6	Hg 1631	1.00	<b>6.89</b>	ng/L	EPA 1631E	3/5/14	ESTAFFORD1

# EMER/COC

DIVISION OF WATER RESOURCES

## Surface Water Fieldsheet

14W12714

COUNTY : Caswell  
 RIVER BASIN : Roanoke 04  
 REPORT TO : Winston-Salem Regional Office

PRIORITY  
 AMBIENT     QA  
 COMPLIANCE     CHAIN OF CUSTODY  
 EMERGENCY    VISIT ID

SAMPLE TYPE  
 STREAM     EFFLUENT  
 LAKE     INFLUENT  
 ESTUARY

Other :  
 COLLECTOR(S) : Sande Gonzalez

Station Location: Dan R. at Milton    N 3500000

Lab Number : AC0526Z  
 Date Received : 2-20-14  
 Time Received :  
 Received By : 13.44 mpa  
 Data Released :  
 Date Reported :

Estimated BOD Range:  
 Seed: \_\_\_\_\_ Chlorinated: \_\_\_\_\_

Remarks: \_\_\_\_\_

Station #/Location Code	Date Begin (yy/mm/dd)	Date End (yy/mm/dd)	Time Begin	Time End	Depth - DM, DB, DBM	Value Type - A, H, L	Composite-T, S, B	Sample Type
N3500000	14/02/20		17:07					G

BOD 310 mg/L	<input checked="" type="checkbox"/> Chloride 940 mg/L	<input checked="" type="checkbox"/> NH3 as N 610 mg/L	Li-Lithium 1132 ug/L
COD High 340 mg/L		<input checked="" type="checkbox"/> TKN as N 625 mg/L	<input checked="" type="checkbox"/> Mg- Magnesium 927 mg/L
COD Low 335 mg/L	Chlorophyll a EPA 445.0 modified option ug/L	<input checked="" type="checkbox"/> NO2 plus NO3 as N 630 mg/L	<input checked="" type="checkbox"/> Mn-Manganese 1055 ug/L
Coliform: MF Fecal 31616 /100ml		<input checked="" type="checkbox"/> P- Total as P 665 mg/L	<input checked="" type="checkbox"/> Na- Sodium 929 mg/L
Coliform: MF Total 31504 /100ml	Color: True 80 c.u.	PO4 as P 70507 mg/L	<input checked="" type="checkbox"/> Arsenic: Total 1002 ug/L
Coliform: tube Fecal 31615 /100ml	Color: (pH) 83 pH= c.u.	P- Dissolved as P 666 mg/L	<input checked="" type="checkbox"/> Se- Selenium 1147 ug/L
Coliform: Fecal Strep 31673 /100ml	Color: pH 7.6 82 c.u.	<input checked="" type="checkbox"/> K- Potassium mg/L	<input checked="" type="checkbox"/> Hg- Mercury 71900 ug/L
<input checked="" type="checkbox"/> Residue: Total 500 mg/L	Cyanide 720 mg/L	<input checked="" type="checkbox"/> Cd- Cadmium 1027 ug/L	<input checked="" type="checkbox"/> Ba-Barium ug/L
Volatile 505 mg/L	<input checked="" type="checkbox"/> Fluoride 951 mg/L	<input checked="" type="checkbox"/> Cr-Chromium: Total 1034 ug/L	Organochlorine Pesticides
Fixed 510 mg/L	Formaldehyde 71880 mg/L	<input checked="" type="checkbox"/> Cu- Copper 1042 ug/L	Organophosphorus Pesticides
<input checked="" type="checkbox"/> Residue: Suspended 530 mg/L	Grease and Oils 556 mg/L	<input checked="" type="checkbox"/> Ni-Nickel 1067 ug/L	Organonitrogen Pesticides
Volatile 535 mg/L	Hardness Total 900 mg/L	<input checked="" type="checkbox"/> Pb- Lead 1051 ug/L	Acid Herbicides
Fixed 540 mg/L	Specific Cond. 95 umhos/cm	<input checked="" type="checkbox"/> Zn- Zinc 1092 ug/L	
pH 403 units	MBAS 38260 mg/L	<input checked="" type="checkbox"/> V-Vanadium ug/L	Base/Neutral&Acid Extractable Organics
Acidity to pH 4.5 436 mg/L	Phenols 32730 ug/L	Ag- Silver 1077 ug/L	TPH Diesel Range
Acidity to pH 8.3 435 mg/L	<input checked="" type="checkbox"/> Sulfate 945 mg/L	<input checked="" type="checkbox"/> Al- Aluminum 1105 ug/L	
Alkalinity to pH 8.3 415 mg/L	Sulfide 745 mg/L	Be- Beryllium 1012 ug/L	Purgeable Organics (VOA bottle req'd)
Alkalinity to pH 4.5 410 mg/L	Boron	<input checked="" type="checkbox"/> Ca- Calcium 916 mg/L	TPH Gasoline Range
TOC 680 mg/L	Tannin & Lignin ug/L	Co- Cobalt 1037 ug/L	TPH/BTEX Gasoline Range
<input checked="" type="checkbox"/> Turbidity 76 NTU	Hexavalent Chromium ug/L	<input checked="" type="checkbox"/> Fe- Iron 1045 ug/L	Phytoplankton
Coliform Total Tube /100 ml	Bicarbonate mg/L	Mo-Molybdenum ug/L	
	Carbonate mg/L	Sb-Antimony ug/L	
	<input checked="" type="checkbox"/> Total Dissolved Solids mg/L	Sn-Tin ug/L	
		Tl-Thallium ug/L	
		Ti-Titanium ug/L	
		Hg-1631 ng/L	Temperature on arrival (°C): <u>2.7</u>

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

County:	<b>CASWELL</b>	Sample ID:	<b>AC05262</b>
River Basin:	<b>ROA04</b>	PO Number #:	<b>14W12714</b>
Report To:	<b>WSROSP</b>	Date Received:	<b>02/20/2014</b>
Collector:	<b>L SNIDER</b>	Time Received:	<b>13:44</b>
Region:	<b>WSRO</b>	Labworks LoginID:	<b>MSWIFT</b>
Sample Matrix:	<b>SURFACEWATER</b>	Final Report Date:	<b>3/11/14</b>
Loc. Type:	<b>RIVER/STREAM</b>	Report Print Date:	<b>03/11/2014</b>
Emergency Yes/No:	<b>Yes</b>	VisitID:	
COC Yes/No:	<b>Yes</b>		
<b>Final Report</b>			
Loc. Descr.: <b>DAN R. AT MILTON</b>			
Location ID:	<b>N3500000</b>	Collect Date:	<b>02/20/2014</b>
		Collect Time:	<b>12:07</b>
		Sample Depth:	
<b>If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.</b>			

CAS #	Analyte Name	PQL	Result/ Qualifier	Units	Method Reference	Analysis Date	Validated by
<b>LAB</b>							
	Sample temperature at receipt by lab		<b>2.7</b>	°C		2/20/14	MSWIFT
<b>MIC</b>							
	Turbidity	1.0	<b>120</b>	NTU	APHA2130B-20th	2/20/14	ESTAFFORD1
<b>WET</b>							
	Residue_Total in liquid	12	<b>248</b>	mg/L	SM 2540 B-1997	2/21/14	MOVERMAN
	Residue_Suspended in liquid	6.2	<b>212</b>	mg/L	SM 2540 D-1997	2/21/14	CGREEN
	Ion Chromatography		<b>_TITLE_</b>	mg/L	EPA 300.0 rev2.1	2/25/14	CGREEN
	Chloride	1.0	<b>12</b>	mg/L	EPA 300.0 rev2.1	2/25/14	CGREEN
	Fluoride	0.4	<b>0.4 U</b>	mg/L	EPA 300.0 rev2.1	2/25/14	CGREEN
	Sulfate	2.0	<b>5.0</b>	mg/L	EPA 300.0 rev2.1	2/25/14	CGREEN
	Total Dissolved Solids in liquid	12	<b>77</b>	mg/L	SM 2540 C-1997	2/21/14	CGREEN
<b>MET</b>							
7429-90-5	Al by ICP	50	<b>4900</b>	ug/L	EPA 200.7	2/27/14	ESTAFFORD1
7440-38-2	As by ICPMS	2.0	<b>4.7</b>	ug/L	EPA 200.8	3/6/14	ESTAFFORD1
7429-90-5	B by ICP	50	<b>65</b>	ug/L	EPA 200.7	2/26/14	ESTAFFORD1
7440-38-3	Ba by ICP	10	<b>110</b>	ug/L	EPA 200.7	2/25/14	ESTAFFORD1
7440-70-2	Ca by ICP	0.10	<b>7.4</b>	mg/L	EPA 200.7	2/25/14	ESTAFFORD1
7440-43-9	Cd by ICPMS	0.50	<b>0.50 U</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7440-47-3	Cr by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7440-50-8	Cu by ICPMS	2.0	<b>9.0</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7439-89-6	Fe by ICP	50	<b>4900</b>	ug/L	EPA 200.7	2/27/14	ESTAFFORD1
7440-09-7	K by ICP	0.10	<b>2.7</b>	mg/L	EPA 200.7	2/25/14	ESTAFFORD1
7439-95-4	Mg by ICP	0.10	<b>3.3</b>	mg/L	EPA 200.7	2/25/14	ESTAFFORD1
7439-96-5	Mn by ICP	10	<b>120</b>	ug/L	EPA 200.7	2/27/14	ESTAFFORD1
7440-23-5	Na by ICP	0.10	<b>7.0</b>	mg/L	EPA 200.7	2/25/14	ESTAFFORD1
7440-02-0	Ni by ICPMS	2.0	<b>4.7</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7439-92-1	Pb by ICPMS	2.0	<b>5.9</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7782-49-2	Se by ICPMS	5.0	<b>5.0 U</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7440-24-6	Sr by ICPMS	10	<b>68</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7440-28-0	Thallium (Tl) ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7440-32-6	Ti (Titanium) by ICP	10	<b>290</b>	ug/L	EPA 200.7	2/27/14	ESTAFFORD1

*NC DWR, Laboratory Section Results*

Location ID: **N3500000**      Sample ID: **AC05262**      Collect Date: **02/20/2014**      Collect Time: **12:07**

**MET**

<u>CAS #</u>	<u>Analyte Name</u>	<u>PQL</u>	<u>Result/ Qualifier</u>	<u>Units</u>	<u>Method Reference</u>	<u>Analysis Date</u>	<u>Validated by</u>
7440-62-2	V by ICP	25	<b>25 U</b>	ug/L	EPA 200.7	2/27/14	ESTAFFORD1
7440-66-6	Zn by ICP	10	<b>13</b>	ug/L	EPA 200.7	2/27/14	ESTAFFORD1

# EMER/COC

DIVISION OF WATER RESOURCES  
Surface Water Fieldsheet

14w/2715

Lab Number : AC05263  
 Date Received : 2-20-14  
 Time Received : 13:44  
 Received By : mfj  
 Data Released :  
 Date Reported :

COUNTY : Caswell  
 RIVER BASIN : Roanoke 04  
 REPORT TO : Winston-Salem Regional Office  
 Other :  
 COLLECTOR(S) : Snider / GRAZNAK

PRIORITY  
 AMBIENT     QA  
 COMPLIANCE     CHAIN OF CUSTODY  
 EMERGENCY    VISIT ID

SAMPLE TYPE  
 STREAM     EFFLUENT  
 LAKE     INFLUENT  
 ESTUARY

4

Estimated BOD Range: \_\_\_\_\_ Station Location: Dan R. at Milton N35 00000


Seed: \_\_\_\_\_ Chlorinated: \_\_\_\_\_ Remarks: Dissolved Metals

Station #/Location Code	Date Begin (yy/mm/dd)	Date End (yy/mm/dd)	Time Begin	Time End	Depth - DM, DB, DBM	Value Type - A, H, L	Composite-T, S, B	Sample Type
N3500000	14/02/20		1207					G

Parameter	Unit	Parameter	Unit	Parameter	Unit	Parameter	Unit
BOD 310	mg/L	Chloride 940	mg/L	NH3 as N 610	mg/L	Li-Lithium 1132	ug/L
COD High 340	mg/L	Chlorophyll a EPA 445.0 modified option	ug/L	TKN an N 625	mg/L	Mg- Magnesium 927	mg/L
COD Low 335	mg/L	Color: True 80	c.u.	NO2 plus NO3 as N 630	mg/L	Mn-Manganese 1055	ug/L
Coliform: MF Fecal 31616	/100ml	Color: (pH) 83 pH=	c.u.	P: Total as P 665	mg/L	Na- Sodium 929	mg/L
Coliform: MF Total 31504	/100ml	Color: pH 7.6 82	c.u.	PO4 as P 70507	mg/L	Arsenic: Total 1002	ug/L
Coliform: tube Fecal 31615	/100ml	Cyanide 720	mg/L	P: Dissolved as P 666	mg/L	Se- Selenium 1147	ug/L
Coliform: Fecal Strep 31673	/100ml	Fluoride 951	mg/L	K- Potassium	mg/L	Hg- Mercury 71900	ug/L
Residue: Total 500	mg/L	Formaldehyde 71880	mg/L	Cd- Cadmium 1027	ug/L	Ba-Barium	ug/L
Volatile 505	mg/L	Grease and Oils 556	mg/L	Cr-Chromium: Total 1034	ug/L	Organochlorine Pesticides	
Fixed 510	mg/L	Hardness Total 900	mg/L	Cu- Copper 1042	ug/L	Organophosphorus Pesticides	
Residue: Suspended 530	mg/L	Specific Cond. 95	umhos/cm	Ni-Nickel 1067	ug/L	Organonitrogen Pesticides	
Volatile 535	mg/L	MBAS 38260	mg/L	Pb- Lead 1051	ug/L	Acid Herbicides	
Fixed 540	mg/L	Phenols 32730	ug/L	Zn- Zinc 1092	ug/L		
pH 403	units	Sulfate 945	mg/L	V- Vanadium	ug/L	Base/Neutral & Acid Extractable Organics	
Acidity to pH 4.5 436	mg/L	Sulfide 745	mg/L	Ag- Silver 1077	ug/L	TPH Diesel Range	
Acidity to pH 8.3 435	mg/L	Boron		Al- Aluminum 1105	ug/L		
Alkalinity to pH 8.3 415	mg/L	Tannin & Lignin	ug/L	Be- Beryllium 1012	ug/L	Purgeable Organics (VOA bottle req'd)	
Alkalinity to pH 4.5 410	mg/L	Hexavalent Chromium	ug/L	Ca- Calcium 916	mg/L	TPH Gasoline Range	
TOC 680	mg/L	Bicarbonate	mg/L	Co- Cobalt 1037	ug/L	TPH/BTEX Gasoline Range	
Turbidity 76	NTU	Carbonate	mg/L	Fe- Iron 1045	ug/L	Phytoplankton	
Coliform Total Tube	/100 ml	Total Dissolved Solids	mg/L	Mo- Molybdenum	ug/L		
				Sb- Antimony	ug/L		
				Sn- Tin	ug/L		
				Tl- Thallium	ug/L		
				Ti- Titanium	ug/L		
				Hg-1631	ng/L		

Temperature on arrival (°C): 21

COMMENTS : \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

County: <b>CASWELL</b>	 <b>Division of Water Resources</b> <b>Final Report</b>	Sample ID: <b>AC05263</b>	
River Basin: <b>ROA04</b>		PO Number #: <b>14W12715</b>	
Report To: <b>WSROSP</b>		Date Received: <b>02/20/2014</b>	
Collector: <b>L SNIDER</b>		Time Received: <b>13:44</b>	
Region: <b>WSRO</b>		Labworks LoginID: <b>MSWIFT</b>	
Sample Matrix: <b>SURFACEWATER</b>		Final Report Date: <b>3/11/14</b>	
Loc. Type: <b>RIVER/STREAM</b>		Report Print Date: <b>03/11/2014</b>	
Emergency Yes/No: <b>Yes</b>		VisitID	
COC Yes/No: <b>Yes</b>			
Loc. Descr.: <b>DAN R. AT MILTON</b>			
Location ID: <b>N3500000</b>	Collect Date: <b>02/20/2014</b>	Collect Time: <b>12:07</b>	Sample Depth

**If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.**

CAS #	Analyte Name	PQL	Result/ Qualifier	Units	Method Reference	Analysis Date	Validated by
<b>LAB</b>							
	Sample temperature at receipt by lab		<b>2.7</b>	°C		2/20/14	MSWIFT
<b>MET</b>							
7440-38-2	As- Dissolved by ICPMS Arsenic	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7440-70-2	Ca-Dissolved Calcium by ICP	0.10	<b>6.7</b>	mg/L	EPA 200.7	2/25/14	ESTAFFORD1
7440-43-9	Cd- Dissolved Cadmium by ICPMS	0.50	<b>0.50 U</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7440-47-3	Cr- Dissolved Chromium by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7440-50-8	Cu- Dissolved Copper by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7439-89-6	Fe- Dissolved Iron by ICP	50	<b>210</b>	ug/L	EPA 200.7	2/27/14	ESTAFFORD1
7440-09-7	K-Dissolved Potassium by ICP	0.10	<b>1.9</b>	mg/L	EPA 200.7	2/25/14	ESTAFFORD1
7439-95-4	Mg- Dissolved Magnesium by ICP	0.10	<b>2.7</b>	mg/L	EPA 200.7	2/25/14	ESTAFFORD1
7439-96-5	Dissolved Mn by ICP	10	<b>19</b>	ug/L	EPA 200.7	2/27/14	ESTAFFORD1
7440-23-5	Na-Dissolved Sodium by ICP	0.10	<b>7.0</b>	mg/L	EPA 200.7	2/25/14	ESTAFFORD1
7440-02-0	Ni-Dissolved Nickel by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7439-92-1	Pb-Dissolved Lead by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7782-49-2	Se-Dissolved Selenium by ICPMS	5.0	<b>5.0 U</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7429-90-5	Al - Dissolved Aluminum by ICP	50	<b>210</b>	ug/L	EPA 200.7	2/27/14	ESTAFFORD1
7429-90-5	B by ICP	50	<b>67</b>	ug/L	EPA 200.7	2/26/14	ESTAFFORD1
7440-38-3	Ba- Dissolved Barium by ICP	10	<b>29</b>	ug/L	EPA 200.7	2/25/14	ESTAFFORD1
	Stronium Dissolved by ICPMS	10	<b>54</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7440-28-0	Thallium (TI) Dissolved by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	3/5/14	ESTAFFORD1
7440-32-6	Ti (Titanium) Dissolved by ICP	10	<b>11</b>	ug/L	EPA 200.7	2/27/14	ESTAFFORD1
7440-62-2	V Dissolved by ICP	25	<b>25 U</b>	ug/L	EPA 200.7	2/27/14	ESTAFFORD1
7440-66-6	Zn-Dissolved Zinc by ICP	10	<b>10 U</b>	ug/L	EPA 200.7	2/27/14	ESTAFFORD1



14412723

DIVISION OF WATER RESOURCES

Surface Water Fieldsheet

COUNTY : Caswell  
 RIVER BASIN : Roanoke 04  
 REPORT TO : Winston-Salem Regional Office

Other :  
 COLLECTOR(S) : Snider / GM ZIAK

Estimated BOD Range:

Seed: \_\_\_\_\_ Chlorinated: \_\_\_\_\_

PRIORITY  
 AMBIENT  QA  
 COMPLIANCE  CHAIN OF CUSTODY  
 EMERGENCY

VISIT ID

SAMPLE TYPE  
 STREAM  EFFLUENT  
 LAKE  INFLUENT  
 ESTUARY

4

Station Location: Dan R. at Milton N 3500000

Remarks: ( ) Mercury sample 431 Hg 110

Lab Number : AC0527  
 Date Received : 2-20-19  
 Time Received : 13:00  
 Received By : AK  
 Data Released :  
 Date Reported :

Station #/Location Code	Date Begin (yy/mm/dd)	Date End (yy/mm/dd)	Time Begin	Time End	Depth - DM, DB, DBM	Value Type - A, H, L	Composite-T, S, B	Sample Type
N3500000	<u>19/02/20</u>		<u>11:55</u>					G

BOD 310	mg/L	Chloride 940	mg/L	NH3 as N 610	mg/L	Li-Lithium 1132	ug/L
COD High 340	mg/L			TKN an N 625	mg/L	Mg- Magnesium 927	mg/L
COD Low 335	mg/L	Chlorophyll a EPA 445.0 modified option	ug/L	NO2 plus NO3 as N 630	mg/L	Mn-Manganese 1055	ug/L
Coliform: MF Fecal 31616	/100ml			P: Total as P 665	mg/L	Na- Sodium 929	mg/L
Coliform: MF Total 31504	/100ml	Color: True 80	c.u.	PO4 as P 70507	mg/L	Arsenic: Total 1002	ug/L
Coliform: tube Fecal 31615	/100ml	Color: (pH ) 83 pH=	c.u.	P: Dissolved as P 666	mg/L	Se- Selenium 1147	ug/L
Coliform: Fecal Strep 31673	/100ml	Color: pH 7.6 82	c.u.	K-Potassium	mg/L	Hg- Mercury 71900	ug/L
Residue: Total 500	mg/L	Cyanide 720	mg/L	Cd- Cadmium 1027	ug/L	Ba-Barium	ug/L
Volatile 505	mg/L	Fluoride 951	mg/L	Cr-Chromium: Total 1034	ug/L	Organochlorine Pesticides	
Fixed 510	mg/L	Formaldehyde 71880	mg/L	Cu- Copper 1042	ug/L	Organophosphorus Pesticides	
Residue: Suspended 530	mg/L	Grease and Oils 556	mg/L	Ni-Nickel 1067	ug/L	Organonitrogen Pesticides	
Volatile 535	mg/L	Hardness Total 900	mg/L	Pb- Lead 1051	ug/L	Acid Herbicides	
Fixed 540	mg/L	Specific Cond. 95	umhos/cm	Zn- Zinc 1092	ug/L		
pH 403	units	MBAS 38260	mg/L	V-Vanadium	ug/L	Base/Neutral&Acid Extractable Organics	
Acidity to pH 4.5 436	mg/L	Phenols 32730	ug/L	Ag- Silver 1077	ug/L	TPH Diesel Range	
Acidity to pH 8.3 435	mg/L	Sulfate 945	mg/L	Al- Aluminum 1105	ug/L		
Alkalinity to pH 8.3 415	mg/L	Sulfide 745	mg/L	Be- Beryllium 1012	ug/L	Purgeable Organics (VOA bottle req'd)	
Alkalinity to pH 4.5 410	mg/L	Boron		Ca- Calcium 916	mg/L	TPH Gasoline Range	
TOC 680	mg/L	Tannin & Lignin	ug/L	Co- Cobalt 1037	ug/L	TPH/BTEX Gasoline Range	
Turbidity 76	NTU	Hexavalent Chromium	ug/L	Fe- Iron 1045	ug/L	Phytoplankton	
Coliform Total Tube	/100 ml	Bicarbonate	mg/L	Mo-Molybdenum	ug/L		
		Carbonate	mg/L	Sb-Antimony	ug/L		
		Total Dissolved Solids	mg/L	Sn-Tin	ug/L		
				Tl-Thallium	ug/L		
				Ti-Titanium	ug/L		
				<input checked="" type="checkbox"/> Hg-1631	ng/L	Temperature on arrival (°C):	

COMMENTS: 7E014734

County: CASWELL  
 River Basin: ROA04  
 Report To: WSROSP  
 Collector: L SNIDER  
 Region: WSRO  
 Sample Matrix: SURFACEWATER  
 Loc. Type: RIVER/STREAM  
 Emergency Yes/No: Yes  
 COC Yes/No: Yes

**Final Report**

Sample ID: **AC05271**  
 PO Number #: **14W12723**  
 Date Received: **02/20/2014**  
 Time Received: **13:44**  
 Labworks LoginID: **MSWIFT**  
 Final Report Date: **3/6/14**  
 Report Print Date: **03/06/2014**

VisitID

Loc. Descr.: DAN R. AT MILTON

Location ID: <b>N3500000</b>	Collect Date: <b>02/20/2014</b>	Collect Time: <b>11:55</b>	Sample Depth
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***If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.***

<u>CAS #</u>	<u>Analyte Name</u>	<u>PQL</u>	<u>Result/ Qualifier</u>	<u>Units</u>	<u>Method Reference</u>	<u>Analysis Date</u>	<u>Validated by</u>
<b>MET</b>							
7439-97-6	Hg 1631	1.00	<b>23.2</b>	ng/L	EPA 1631E	3/5/14	ESTAFFORD1

Cel Ench

14W 12802

DIVISION OF WATER RESOURCES

Surface Water Fieldsheet

COUNTY : Caswell  
 RIVER BASIN : Roanoke 4  
 REPORT TO : Winston-Salem Regional Office  
 Other :  
 COLLECTOR(S) : S. Wang & P. Mitchell

PRIORITY  
 AMBIENT  QA  
 COMPLIANCE  CHAIN OF CUSTODY  
 EMERGENCY  
 VISIT ID  
 14

SAMPLE TYPE  
 STREAM  EFFLUENT  
 LAKE  INFLUENT  
 ESTUARY  
 4

Lab Number : AC 05360  
 Date Received : 2-21-2014  
 Time Received : 1:45 PM  
 Received By : NY  
 Data Released :  
 Date Reported :

Estimated BOD Range:

Station Location: Dan R. at Milton


Seed: \_\_\_\_\_ Chlorinated: \_\_\_\_\_

Remarks: \_\_\_\_\_

Station #/Location Code	Date Begin (yy/mm/dd)	Date End (yy/mm/dd)	Time Begin	Time End	Depth - DM, DB, DBM	Value Type - A, H, L	Composite-T, S, B	Sample Type
N3500000	14/02/21	14/02/21	12:50	1:18				G

BOD 310	mg/L	x	Chloride 940	mg/L	NH3 as N 610	mg/L	Li-Lithium 1132	ug/L		
COD High 340	mg/L				TKN an N 625	mg/L	x	Mg- Magnesium 927	mg/L	
COD Low 335	mg/L		Chlorophyll a EPA 445.0 modified option	ug/L	NO2 plus NO3 as N 630	mg/L	x	Mn-Manganese 1055	ug/L	
Coliform: MF Fecal 31616	/100ml				P: Total as P 665	mg/L	x	Na- Sodium 929	mg/L	
Coliform: MF Total 31504	/100ml		Color: True 80	c.u.	PO4 as P 70507	mg/L	x	Arsenic: Total 1002	ug/L	
Coliform: tube Fecal 31615	/100ml		Color: (pH ) 83 pH=	c.u.	P: Dissolved as P 666	mg/L	x	Se- Selenium 1147	ug/L	
Coliform: Fecal Strep 31673	/100ml		Color: pH 7.6 82	c.u.	K-Potassium	mg/L	x	Hg- Mercury 71900	ug/L	
x	Residue: Total 500	mg/L	Cyanide 720	mg/L	x	Cd- Cadmium 1027	ug/L	x	Ba-Barium	ug/L
	Volatile 505	mg/L	x	Fluoride 951	mg/L	x	Cr-Chromium: Total 1034	ug/L		Organochlorine Pesticides
	Fixed 510	mg/L		Formaldehyde 71880	mg/L	x	Cu- Copper 1042	ug/L		Organophosphorus Pesticides
x	Residue: Suspended 530	mg/L		Grease and Oils 556	mg/L	x	Ni-Nickel 1067	ug/L		Organonitrogen Pesticides
	Volatile 535	mg/L		Hardness Total 900	mg/L	x	Pb- Lead 1051	ug/L		Acid Herbicides
	Fixed 540	mg/L		Specific Cond. 95	umhos/cm	x	Zn- Zinc 1092	ug/L		
	pH 403	units		MBAS 38260	mg/L	x	V-Vanadium	ug/L		Base/Neutral&Acid Extractable Organics
	Acidity to pH 4.5 436	mg/L		Phenols 32730	ug/L	x	Ag- Silver 1077	ug/L		TPH Diesel Range
	Acidity to pH 8.3 435	mg/L	x	Sulfate 945	mg/L	x	Al- Aluminum 1105	ug/L		
	Alkalinity to pH 8.3 415	mg/L		Sulfide 745	mg/L		Be- Beryllium 1012	ug/L		Purgeable Organics (VOA bottle req'd)
	Alkalinity to pH 4.5 410	mg/L		Boron		x	Ca- Calcium 916	mg/L		TPH Gasoline Range
	TOC 680	mg/L		Tannin & Lignin	ug/L		Co- Cobalt 1037	ug/L		TPH/BTEX Gasoline Range
x	Turbidity 76	NTU		Hexavalent Chromium	ug/L	x	Fe- Iron 1045	ug/L		Phytoplankton
	Coliform Total Tube	/100 ml		Bicarbonate	mg/L		Mo-Molybdenum	ug/L		
				Carbonate	mg/L		Sb-Antimony	ug/L		
			x	Total Dissolved Solids	mg/L		Sn-Tin	ug/L		
						x	Tl-Thallium	ug/L		
						x	Ti-Titanium	ug/L		
							Hg-1631	ng/L		Temperature on arrival (°C): <u>25</u>

COMMENTS : \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Revision: 08/23/13

County:	<b>CASWELL</b>	 <b>Division of Water Resources</b> <b>Final Report</b>	Sample ID:	<b>AC05360</b>
River Basin:	<b>ROA04</b>		PO Number #	<b>14W12802</b>
Report To:	<b>WSROSP</b>		Date Received:	<b>02/21/2014</b>
Collector:	<b>S WANG</b>		Time Received:	<b>14:45</b>
Region:	<b>WSRO</b>		Labworks LoginID	<b>MSWIFT</b>
Sample Matrix:	<b>SURFACEWATER</b>		Final Report Date:	<b>3/11/14</b>
Loc. Type:	<b>RIVER/STREAM</b>		Report Print Date:	<b>03/11/2014</b>
Emergency Yes/No	<b>Yes</b>		VisitID	<b>14</b>
COC Yes/No	<b>Yes</b>		Loc. Descr.:	<b>DAN R. AT MILTON</b>
Location ID: <b>N3500000</b>			Collect Date: <b>02/21/2014</b>	Collect Time: <b>13:10</b>

**If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.**

CAS #	Analyte Name	PQL	Result/ Qualifier	Units	Method Reference	Analysis Date	Validated by
<b>LAB</b>							
	Sample temperature at receipt by lab		<b>2.5</b>	°C		2/21/14	MSWIFT
<b>MIC</b>							
	Turbidity	1.0	<b>120</b>	NTU	APHA2130B-20th	2/21/14	ESTAFFORD1
<b>WET</b>							
	Residue_Total in liquid	12	<b>263</b>	mg/L	SM 2540 B-1997	2/24/14	MOVERMAN
	Residue_Suspended in liquid	6.2	<b>184</b>	mg/L	SM 2540 D-1997	2/24/14	MOVERMAN
	Ion Chromatography		<b>_TITLE_</b>	mg/L	EPA 300.0 rev2.1	2/25/14	CGREEN
	Chloride	1.0	<b>10</b>	mg/L	EPA 300.0 rev2.1	2/25/14	CGREEN
	Fluoride	0.4	<b>0.4 U</b>	mg/L	EPA 300.0 rev2.1	2/25/14	CGREEN
	Sulfate	2.0	<b>3.6</b>	mg/L	EPA 300.0 rev2.1	2/25/14	CGREEN
	Total Dissolved Solids in liquid	12	<b>71</b>	mg/L	SM 2540 C-1997	2/27/14	CGREEN
<b>MET</b>							
7429-90-5	Al by ICP	50	<b>5900</b>	ug/L	EPA 200.7	2/28/14	ESTAFFORD1
7440-38-2	As by ICPMS	2.0	<b>2.5</b>	ug/L	EPA 200.8	3/6/14	ESTAFFORD1
7429-90-5	B by ICP	50	<b>50 U</b>	ug/L	EPA 200.7	3/3/14	ESTAFFORD1
7440-38-3	Ba by ICP	10	<b>95</b>	ug/L	EPA 200.7	3/6/14	ESTAFFORD1
7440-70-2	Ca by ICP	0.10	<b>6.2</b>	mg/L	EPA 200.7	2/28/14	ESTAFFORD1
7440-43-9	Cd by ICPMS	0.50	<b>0.50 U</b>	ug/L	EPA 200.8	3/6/14	ESTAFFORD1
7440-47-3	Cr by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	3/6/14	ESTAFFORD1
7440-50-8	Cu by ICPMS	2.0	<b>7.7</b>	ug/L	EPA 200.8	3/6/14	ESTAFFORD1
7439-89-6	Fe by ICP	50	<b>6900</b>	ug/L	EPA 200.7	2/28/14	ESTAFFORD1
7440-09-7	K by ICP	0.10	<b>2.4</b>	mg/L	EPA 200.7	2/28/14	ESTAFFORD1
7439-95-4	Mg by ICP	0.10	<b>3.0</b>	mg/L	EPA 200.7	2/28/14	ESTAFFORD1
7439-96-5	Mn by ICP	10	<b>170</b>	ug/L	EPA 200.7	2/28/14	ESTAFFORD1
7440-23-5	Na by ICP	0.10	<b>5.6</b>	mg/L	EPA 200.7	2/28/14	ESTAFFORD1
7440-02-0	Ni by ICPMS	2.0	<b>4.6</b>	ug/L	EPA 200.8	3/6/14	ESTAFFORD1
7439-92-1	Pb by ICPMS	2.0	<b>5.4</b>	ug/L	EPA 200.8	3/6/14	ESTAFFORD1
7782-49-2	Se by ICPMS	5.0	<b>5.0 U</b>	ug/L	EPA 200.8	3/6/14	ESTAFFORD1
7440-24-6	Sr by ICPMS	10	<b>53</b>	ug/L	EPA 200.8	3/6/14	ESTAFFORD1
7440-28-0	Thallium (Tl) ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	3/6/14	ESTAFFORD1
7440-32-6	Ti (Titanium) by ICP	10	<b>340</b>	ug/L	EPA 200.7	2/27/14	ESTAFFORD1

*NC DWR, Laboratory Section Results*

Location ID: **N3500000**      Sample ID: **AC05360**      Collect Date: **02/21/2014**      Collect Time: **13:10**

**MET**

<u>CAS #</u>	<u>Analyte Name</u>	<u>PQL</u>	<u>Result/ Qualifier</u>	<u>Units</u>	<u>Method Reference</u>	<u>Analysis Date</u>	<u>Validated by</u>
7440-62-2	V by ICP	25	<b>25 U</b>	ug/L	EPA 200.7	2/28/14	ESTAFFORD1
7440-66-6	Zn by ICP	10	<b>22</b>	ug/L	EPA 200.7	2/28/14	ESTAFFORD1

*Cucibush*

14w 12 803

DIVISION OF WATER RESOURCES

Surface Water Fieldsheet

COUNTY : Caswell  
 RIVER BASIN : Roanoke 4  
 REPORT TO : Winston-Salem Regional Office  
 Other :  
 COLLECTOR(S) : S. Wang & P. Mitchell

PRIORITY  
 AMBIENT  QA  
 COMPLIANCE  CHAIN OF CUSTODY  
 EMERGENCY  
 VISIT ID  
 14

SAMPLE TYPE  
 STREAM  EFFLUENT  
 LAKE  INFLUENT  
 ESTUARY  
 4


Lab Number : AC 05361  
 Date Received : 2-21-2014  
 Time Received : 1445  
 Received By : MR  
 Data Released :  
 Date Reported :

Estimated BOD Range:  
 Seed: \_\_\_\_\_ Chlorinated: \_\_\_\_\_  
 Station Location: Dan R. at Milton  
 Remarks: Dissolved metals

Station #/Location Code	Date Begin (yy/mm/dd)	Date End (yy/mm/dd)	Time Begin	Time End	Depth - DM, DB, DBM	Value Type - A, H, L	Composite-T, S, B	Sample Type
N3500000	14/02/21	14/02/21	12:50	13:10				G

BOD 310	mg/L	Chloride 940	mg/L	NH3 as N 610	mg/L	Li-Lithium 1132	ug/L
COD High 340	mg/L			TKN an N 625	mg/L	x Mg- Magnesium 927	mg/L
COD Low 335	mg/L	Chlorophyll a EPA 445.0 modified option	ug/L	NO2 plus NO3 as N 630	mg/L	x Mn-Manganese 1055	ug/L
Coliform: MF Fecal 31616	/100ml			P: Total as P 665	mg/L	x Na- Sodium 929	mg/L
Coliform: MF Total 31504	/100ml	Color: True 80	c.u.	PO4 as P 70507	mg/L	x Arsenic: Total 1002	ug/L
Coliform: tube Fecal 31615	/100ml	Color: (pH) 83 pH=	c.u.	P: Dissolved as P 666	mg/L	x Se- Selenium 1147	ug/L
Coliform: Fecal Strep 31673	/100ml	Color: pH 7.6 82	c.u.	x K- Potassium	mg/L	Hg- Mercury 71900	ug/L
Residue: Total 500	mg/L	Cyanide 720	mg/L	x Cd- Cadmium 1027	ug/L	x Ba-Barium	ug/L
Volatile 505	mg/L	Fluoride 951	mg/L	x Cr-Chromium: Total 1034	ug/L	Organochlorine Pesticides	
Fixed 510	mg/L	Formaldehyde 71880	mg/L	x Cu- Copper 1042	ug/L	Organophosphorus Pesticides	
Residue: Suspended 530	mg/L	Grease and Oils 556	mg/L	x Ni-Nickel 1067	ug/L	Organonitrogen Pesticides	
Volatile 535	mg/L	Hardness Total 900	mg/L	x Pb- Lead 1051	ug/L	Acid Herbicides	
Fixed 540	mg/L	Specific Cond. 95	umhos/cm	x Zn- Zinc 1092	ug/L		
pH 403	units	MBAS 38260	mg/L	x V-Vanadium	ug/L	Base/Neutral&Acid Extractable Organics	
Acidity to pH 4.5 436	mg/L	Phenols 32730	ug/L	Ag- Silver 1077	ug/L	TPH Diesel Range	
Acidity to pH 8.3 435	mg/L	Sulfate 945	mg/L	x Al- Aluminum 1105	ug/L		
Alkalinity to pH 8.3 415	mg/L	Sulfide 745	mg/L	Be- Beryllium 1012	ug/L	Purgeable Organics (VOA bottle req'd)	
Alkalinity to pH 4.5 410	mg/L	Boron		x Ca- Calcium 916	mg/L	TPH Gasoline Range	
TOC 680	mg/L	Tannin & Lignin	ug/L	Co- Cobalt 1037	ug/L	TPH/BTEX Gasoline Range	
Turbidity 76	NTU	Hexavalent Chromium	ug/L	x Fe- Iron 1045	ug/L	Phytoplankton	
Coliform Total Tube	/100 ml	Bicarbonate	mg/L	Mo-Molybdenum	ug/L		
		Carbonate	mg/L	Sb-Antimony	ug/L		
		x Total Dissolved Solids	mg/L	Sn-Tin	ug/L		
				x Tl-Thallium	ug/L		
				x Ti-Titanium	ug/L		
				Hg-1631	ng/L	Temperature on arrival (°C):	28

COMMENTS : \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

County: <b>CASWELL</b>	 <b>Final Report</b>	Sample ID: <b>AC05361</b>
River Basin: <b>ROA04</b>		PO Number #: <b>14W12803</b>
Report To: <b>WSROSP</b>		Date Received: <b>02/21/2014</b>
Collector: <b>S WANG</b>		Time Received: <b>14:45</b>
Region: <b>WSRO</b>		Labworks LoginID: <b>MSWIFT</b>
Sample Matrix: <b>SURFACEWATER</b>		Final Report Date: <b>3/11/14</b>
Loc. Type: <b>RIVER/STREAM</b>		Report Print Date: <b>03/11/2014</b>
Emergency Yes/No: <b>Yes</b>		VisitID: <input type="text" value="14"/>
COC Yes/No: <b>Yes</b>		
Loc. Descr.: <b>DAN R. AT MILTON</b>		

Location ID: <b>N3500000</b>	Collect Date: <b>02/21/2014</b>	Collect Time: <b>13:10</b>	Sample Depth
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**If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.**

CAS #	Analyte Name	PQL	Result/ Qualifier	Units	Method Reference	Analysis Date	Validated by
<b>LAB</b>							
	Sample temperature at receipt by lab		<b>2.5</b>	°C		2/21/14	MSWIFT
<b>MET</b>							
7440-38-2	As- Dissolved by ICPMS Arsenic	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	3/6/14	ESTAFFORD1
7440-70-2	Ca-Dissolved Calcium by ICP	0.10	<b>5.4</b>	mg/L	EPA 200.7	2/28/14	ESTAFFORD1
7440-43-9	Cd- Dissolved Cadmium by ICPMS	0.50	<b>0.50 U</b>	ug/L	EPA 200.8	3/6/14	ESTAFFORD1
7440-47-3	Cr- Dissolved Chromium by ICPMS	10	<b>10 U</b>	ug/L	EPA 200.8	3/6/14	ESTAFFORD1
7440-50-8	Cu- Dissolved Copper by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	3/6/14	ESTAFFORD1
7439-89-6	Fe- Dissolved Iron by ICP	50	<b>130</b>	ug/L	EPA 200.7	2/28/14	ESTAFFORD1
7440-09-7	K-Dissolved Potassium by ICP	0.10	<b>1.7</b>	mg/L	EPA 200.7	2/28/14	ESTAFFORD1
7439-95-4	Mg- Dissolved Magnesium by ICP	0.10	<b>2.1</b>	mg/L	EPA 200.7	2/28/14	ESTAFFORD1
7439-96-5	Dissolved Mn by ICP	10	<b>10 U</b>	ug/L	EPA 200.7	2/28/14	ESTAFFORD1
7440-23-5	Na-Dissolved Sodium by ICP	0.10	<b>5.4</b>	mg/L	EPA 200.7	2/28/14	ESTAFFORD1
7440-02-0	Ni-Dissolved Nickel by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	3/6/14	ESTAFFORD1
7439-92-1	Pb-Dissolved Lead by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	3/6/14	ESTAFFORD1
7782-49-2	Se-Dissolved Selenium by ICPMS	5.0	<b>5.0 U</b>	ug/L	EPA 200.8	3/6/14	ESTAFFORD1
7429-90-5	Al - Dissolved Aluminum by ICP	50	<b>100</b>	ug/L	EPA 200.7	2/28/14	ESTAFFORD1
7429-90-5	B by ICP	50	<b>50 U</b>	ug/L	EPA 200.7	3/3/14	ESTAFFORD1
7440-38-3	Ba- Dissolved Barium by ICP	10	<b>21</b>	ug/L	EPA 200.7	3/6/14	ESTAFFORD1
	Stronium Dissolved by ICPMS	10	<b>42</b>	ug/L	EPA 200.8	3/6/14	ESTAFFORD1
7440-28-0	Thallium (TI) Dissolved by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	3/6/14	ESTAFFORD1
7440-32-6	Ti (Titanium) Dissolved by ICP	10	<b>10 U</b>	ug/L	EPA 200.7	2/27/14	ESTAFFORD1
7440-62-2	V Dissolved by ICP	25	<b>25 U</b>	ug/L	EPA 200.7	2/28/14	ESTAFFORD1
7440-66-6	Zn-Dissolved Zinc by ICP	10	<b>10 U</b>	ug/L	EPA 200.7	2/28/14	ESTAFFORD1

Coc/Bruck

1461281

DIVISION OF WATER RESOURCES

Surface Water Fieldsheet

COUNTY : Caswell
RIVER BASIN : Roanoke 04
REPORT TO : Winston-Salem Regional Office
Other :
COLLECTOR(S) : S. Wang & P. Mitchell

PRIORITY
[ ] AMBIENT [ ] QA
[ ] COMPLIANCE [X] CHAIN OF CUSTODY
[X] EMERGENCY VISIT ID 14

SAMPLE TYPE
[X] STREAM [ ] EFFLUENT
[ ] LAKE [ ] INFLUENT
[ ] ESTUARY
4

Lab Number : AC09369
Date Received : 2-21-14
Time Received : 14:45
Received By : [Signature]
Data Released :
Date Reported :

Estimated BOD Range:

Station Location: Dan R. at Milton

Seed: Chlorinated:

Remarks: 4B1 Hg/14 Mercury Sample

Table with 8 columns: Station #/Location Code, Date Begin, Date End, Time Begin, Time End, Depth, Value Type, Composite, Sample Type. Row 1: N3500000, 14/02/21, 14/02/21, 12:50, 13:10, 67

Main data table with 4 columns of parameters and units. Includes BOD, Chloride, NH3, TKN, NO2, P, PO4, K, Cd, Cr, Cu, Ni, Pb, Zn, V, Ag, Al, Be, Ca, Co, Fe, Mo, Sb, Sn, Tl, Ti, Hg, and Temperature.

COMMENTS : 7 Col Hg 27



County: CASWELL  
 River Basin: ROA04  
 Report To: WSROSP  
 Collector: S WANG  
 Region: WSRO  
 Sample Matrix: SURFACEWATER  
 Loc. Type: RIVER/STREAM  
 Emergency Yes/No: Yes  
 COC Yes/No: Yes



Sample ID: **AC05369**  
 PO Number #: **14W12811**  
 Date Received: **02/21/2014**  
 Time Received: **14:45**  
 Labworks LoginID: **MSWIFT**  
 Final Report Date: **3/11/14**  
 Report Print Date: **03/11/2014**

**Final Report**VisitID Loc. Descr.: DAN R. AT MILTON

Location ID: <b>N3500000</b>	Collect Date: <b>02/21/2014</b>	Collect Time: <b>13:10</b>	Sample Depth
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***If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.***

<u>CAS #</u>	<u>Analyte Name</u>	<u>PQL</u>	<u>Result/ Qualifier</u>	<u>Units</u>	<u>Method Reference</u>	<u>Analysis Date</u>	<u>Validated by</u>
<b>MET</b>							
7439-97-6	Hg 1631	1.00	<b>17.8</b>	ng/L	EPA 1631E	3/7/14	ESTAFFORD1

Co Cl Bank

14w12 998 mb  
4/27/14

DIVISION OF WATER QUALITY  
Chemistry Laboratory Report / Water Quality

COUNTY : ROCKAWAY  
RIVER BASIN : ICAWADICE  
REPORT TO : WSRO Regional Office  
Other :  
COLLECTOR(S) : L SNIDER / ICEDONE

PRIORITY  
 AMBIENT  QA  
 COMPLIANCE  CHAIN OF CUSTODY  
 EMERGENCY VISIT ID

SAMPLE TYPE  
 STREAM  EFFLUENT  
 LAKE  INFLUENT  
 ESTUARY

Lab Number : AC05571  
Date Received : 2-27-2014  
Time Received : 7:50 AM  
Received By : W  
Data Released :  
Date Reported :

Estimated BOD Range:

Station Location: \_\_\_\_\_

Seed: \_\_\_\_\_ Chlorinated: \_\_\_\_\_

Remarks: DAW R. COAL ASH SPILL

Station #/Location Code	Date Begin (yy/mm/dd)	Date End (yy/mm/dd)	Time Begin	Time End	Depth - DM, DB, DBM	Value Type - A, H, L	Composite-T, S, B	Sample Type
<u>DAN &amp; MILTON</u>	<u>14/2/26</u>		<u>1030</u>					


BOD 310	mg/L
COD High 340	mg/L
COD Low 335	mg/L
Coliform: MF Fecal 31616	/100ml
Coliform: MF Total 31504	/100ml
Coliform: tube Fecal 31615	/100ml
Coliform: Fecal Strep 31673	/100ml
<input checked="" type="checkbox"/> Residue: Total 500	mg/L
Volatile 505	mg/L
Fixed 510	mg/L
<input checked="" type="checkbox"/> Residue: Suspended 530	mg/L
Volatile 535	mg/L
Fixed 540	mg/L
pH 403	units
Acidity to pH 4.5 436	mg/L
Acidity to pH 8.3 435	mg/L
Alkalinity to pH 8.3 415	mg/L
Alkalinity to pH 4.5 410	mg/L
TOC 680	mg/L
Turbidity 76	NTU
Coliform Total Tube	/100 ml

Chloride 940	mg/L
Chlorophyll a EPA 445.0 modified option	ug/L
Color: True 80	c.u.
Color: (pH) 83 pH=	c.u.
Color: pH 7.6 82	c.u.
Cyanide 720	mg/L
Fluoride 951	mg/L
Formaldehyde 71880	mg/L
Grease and Oils 556	mg/L
Hardness Total 900	mg/L
Specific Cond. 95	umhos/cm
MBAS 38260	mg/L
Phenols 32730	ug/L
Sulfate 945	mg/L
Sulfide 745	mg/L
Boron	
Tannin & Lignin	ug/L
Hexavalent Chromium	ug/L
Bicarbonate	mg/L
Carbonate	mg/L
Total Dissolved Solids	mg/L

NH3 as N 610	mg/L
TKN an N 625	mg/L
NO2 plus NO3 as N 630	mg/L
P: Total as P 665	mg/L
PO4 as P 70507	mg/L
P: Dissolved as P 666	mg/L
K-Potassium	mg/L
<input checked="" type="checkbox"/> Cd- Cadmium 1027	ug/L
Cr-Chromium:Total 1034	ug/L
<input checked="" type="checkbox"/> Cu- Copper 1042	ug/L
<input checked="" type="checkbox"/> Ni-Nickel 1067	ug/L
Pb- Lead 1051	ug/L
<input checked="" type="checkbox"/> Zn- Zinc 1092	ug/L
V-Vanadium	ug/L
Ag- Silver 1077	ug/L
<input checked="" type="checkbox"/> Al- Aluminum 1105	ug/L
Be- Beryllium 1012	ug/L
Ca- Calcium 916	mg/L
Co- Cobalt 1037	ug/L
<input checked="" type="checkbox"/> Fe- Iron 1045	ug/L
Mo-Molybdenum	ug/L
Sb-Antimony	ug/L
Sn-Tin	ug/L
Tl-Thallium	ug/L
Ti-Titanium	ug/L
Hg-1631	ng/L

Li-Lithium 1132	ug/L
Mg-Magnesium 927	mg/L
Mn-Manganese 1055	mg/L
Na- Sodium 929	mg/L
<input checked="" type="checkbox"/> Arsenic:Total 1002	ug/L
Se- Selenium 1147	ug/L
Hg- Mercury 71900	ug/L
Ba-Barium	ug/L
Organochlorine Pesticides	
Organophosphorus Pesticides	
Organonitrogen Pesticides	
Acid Herbicides	
Base/Neutral&Acid Extractable Organics	
TPH Diesel Range	
Purgeable Organics (VOA bottle req'd)	
TPH Gasoline Range	
TPH/BTEX Gasoline Range	
Phytoplankton	
Temperature on arrival (°C):	<u>12.2</u>

COMMENTS : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

County: <b>ROCKINGHAM</b>	 <b>Final Report</b>	Sample ID: <b>AC05571</b>
River Basin: <b>ROA01</b>		PO Number #: <b>14W12993</b>
Report To: <b>WSROSP</b>		Date Received: <b>02/27/2014</b>
Collector: <b>L SNIDER</b>		Time Received: <b>07:50</b>
Region: <b>WSRO</b>		Labworks LoginID: <b>MSWIFT</b>
Sample Matrix: <b>SURFACEWATER</b>		Final Report Date: <b>3/4/14</b>
Loc. Type: <b>RIVER/STREAM</b>	Report Print Date: <b>03/04/2014</b>	
Emergency Yes/No: <u>Yes</u>	VisitID	
COC Yes/No: <u>Yes</u>		
Loc. Descr.: <b>DAN R. COAL ASH SPILL</b>		
Location ID: <b>DAN_AT_MILTON</b>	Collect Date: <b>02/26/2014</b>	Collect Time: <b>10:30</b>
Sample Depth		
<b>If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.</b>		

CAS #	Analyte Name	PQL	Result/ Qualifier	Units	Method Reference	Analysis Date	Validated by
<b>LAB</b>							
	Sample temperature at receipt by lab		<b>2.2</b>	°C		2/27/14	MSWIFT
<b>WET</b>							
	Residue_Total in liquid	12	<b>91</b>	mg/L	SM 2540 B-1997	2/28/14	CGREEN
	Residue_Suspended in liquid	6.2	<b>18</b>	mg/L	SM 2540 D-1997	2/27/14	MOVERMAN
<b>MET</b>							
7429-90-5	Al by ICP	50	<b>1400</b>	ug/L	EPA 200.7	2/28/14	ESTAFFORD1
7440-38-2	As by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	3/4/14	ESTAFFORD1
7440-43-9	Cd by ICPMS	0.50	<b>0.50 U</b>	ug/L	EPA 200.8	3/4/14	ESTAFFORD1
7440-50-8	Cu by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	3/4/14	ESTAFFORD1
7439-89-6	Fe by ICP	50	<b>1600</b>	ug/L	EPA 200.7	2/28/14	ESTAFFORD1
7440-02-0	Ni by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	3/4/14	ESTAFFORD1
7440-66-6	Zn by ICP	10	<b>10 U</b>	ug/L	EPA 200.7	2/28/14	ESTAFFORD1

Coc/Ende

14w 1299 2/27/14

DIVISION OF WATER QUALITY  
Chemistry Laboratory Report / Water Quality

COUNTY : ROCKINGHAM  
RIVER BASIN : ROANOKE  
REPORT TO : WSRO Regional Office

PRIORITY  
 AMBIENT  QA  
 COMPLIANCE  CHAIN OF CUSTODY  
 EMERGENCY VISIT ID

SAMPLE TYPE  
 STREAM  EFFLUENT  
 LAKE  INFLUENT  
 ESTUARY 4

Lab Number : AC05572  
Date Received : 2-27-2014  
Time Received : 7:30  
Received By : MX  
Data Released :  
Date Reported :

Other :  
COLLECTOR(S) : LSNIDEE / JILVERSA

Estimated BOD Range:

\* DISSOLVED METAL SAMPLE

Station Location:

Seed: \_\_\_\_\_

Chlorinated: \_\_\_\_\_

Remarks: DAN R COAL ASH SPILL

Station #/Location Code	Date Begin (yy/mm/dd)	Date End (yy/mm/dd)	Time Begin	Time End	Depth - DM, DB, DBM	Value Type - A, H, L	Composite-T, S, B	Sample Type
<u>DAN @ MILTON</u>	<u>14/2/26</u>		<u>1030</u>					


BOD 310	mg/L
COD High 340	mg/L
COD Low 335	mg/L
Coliform: MF Fecal 31616	/100ml
Coliform: MF Total 31504	/100ml
Coliform: tube Fecal 31615	/100ml
Coliform: Fecal Strep 31673	/100ml
Residue: Total 500	mg/L
Volatile 505	mg/L
Fixed 510	mg/L
Residue: Suspended 530	mg/L
Volatile 535	mg/L
Fixed 540	mg/L
pH 403	units
Acidity to pH 4.5 436	mg/L
Acidity to pH 8.3 435	mg/L
Alkalinity to pH 8.3 415	mg/L
Alkalinity to pH 4.5 410	mg/L
TOC 680	mg/L
Turbidity 76	NTU
Coliform Total Tube	/100 ml

Chloride 940	mg/L
Chlorophyll a EPA 445.0 modified option	ug/L
Color: True 80	c.u.
Color: (pH) 83 pH=	c.u.
Color: pH 7.6 82	c.u.
Cyanide 720	mg/L
Fluoride 951	mg/L
Formaldehyde 71880	mg/L
Grease and Oils 556	mg/L
Hardness Total 900	mg/L
Specific Cond. 95	umhos/cm
MBAS 38260	mg/L
Phenols 32730	ug/L
Sulfate 945	mg/L
Sulfide 745	mg/L
Boron	
Tannin & Lignin	ug/L
Hexavalent Chromium	ug/L
Bicarbonate	mg/L
Carbonate	mg/L
Total Dissolved Solids	mg/L

NH3 as N 610	mg/L
TKN as N 625	mg/L
NO2 plus NO3 as N 630	mg/L
P: Total as P 665	mg/L
PO4 as P 70507	mg/L
P: Dissolved as P 666	mg/L
K-Potassium	mg/L
<input checked="" type="checkbox"/> Cd- Cadmium 1027	ug/L
Cr-Chromium:Total 1034	ug/L
<input checked="" type="checkbox"/> Cu- Copper 1042	ug/L
<input checked="" type="checkbox"/> Ni-Nickel 1067	ug/L
Pb- Lead 1051	ug/L
Zn- Zinc 1092	ug/L
V-Vanadium	ug/L
Ag- Silver 1077	ug/L
<input checked="" type="checkbox"/> Al- Aluminum 1105	ug/L
Be- Beryllium 1012	ug/L
Ca- Calcium 916	mg/L
Co- Cobalt 1037	ug/L
<input checked="" type="checkbox"/> Fe- Iron 1045	ug/L
Mo-Molybdenum	ug/L
Sb-Antimony	ug/L
Sn-Tin	ug/L
Tl-Thallium	ug/L
Ti-Titanium	ug/L
Hg-1631	ng/L

Li-Lithium 1132	ug/L
Mg- Magnesium 927	mg/L
Mn-Manganese 1055	ug/L
Na- Sodium 929	mg/L
<input checked="" type="checkbox"/> Arsenic:Total 1002	ug/L
Se- Selenium 1147	ug/L
Hg- Mercury 71900	ug/L
Ba-Barium	ug/L
Organochlorine Pesticides	
Organophosphorus Pesticides	
Organonitrogen Pesticides	
Acid Herbicides	
Base/Neutral&Acid Extractable Organics	
TPH Diesel Range	
Purgeable Organics (VOA bottle req'd)	
TPH Gasoline Range	
TPH/BTEX Gasoline Range	
Phytoplankton	
Temperature on arrival (°C):	<u>22</u>

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

County:	<b>ROCKINGHAM</b>	 <b>Final Report</b>	Sample ID:	<b>AC05572</b>
River Basin:	<b>ROA01</b>		PO Number #	<b>14W12994</b>
Report To:	<b>WSROSP</b>		Date Received:	<b>02/27/2014</b>
Collector:	<b>L SNIDER</b>		Time Received:	<b>07:50</b>
Region:	<b>WSRO</b>		Labworks LoginID	<b>MSWIFT</b>
Sample Matrix:	<b>SURFACEWATER</b>		Final Report Date:	<b>3/4/14</b>
Loc. Type:	<b>RIVER/STREAM</b>		Report Print Date:	<b>03/04/2014</b>
Emergency Yes/No	<u>Yes</u>		VisitID	
COC Yes/No	<u>Yes</u>			
Loc. Descr.: <b>DAN R. COAL ASH SPILL</b>				
Location ID: <b>DAN_AT_MILTON</b>		Collect Date: <b>02/26/2014</b>	Collect Time: <b>10:30</b>	Sample Depth

**If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.**

<u>CAS #</u>	<u>Analyte Name</u>	<u>PQL</u>	<u>Result/ Qualifier</u>	<u>Units</u>	<u>Method Reference</u>	<u>Analysis Date</u>	<u>Validated by</u>
<b>LAB</b>							
	Sample temperature at receipt by lab		<b>2.2</b>	°C		2/27/14	MSWIFT
<b>MET</b>							
7440-38-2	As- Dissolved by ICPMS Arsenic	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	3/4/14	ESTAFFORD1
7440-43-9	Cd- Dissolved Cadmium by ICPMS	0.50	<b>0.50 U</b>	ug/L	EPA 200.8	3/4/14	ESTAFFORD1
7440-50-8	Cu- Dissolved Copper by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	3/4/14	ESTAFFORD1
7439-89-6	Fe- Dissolved Iron by ICP	50	<b>130</b>	ug/L	EPA 200.7	2/28/14	ESTAFFORD1
7440-02-0	Ni-Dissolved Nickel by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	3/4/14	ESTAFFORD1
7429-90-5	Al - Dissolved Aluminum by ICP	50	<b>64</b>	ug/L	EPA 200.7	2/28/14	ESTAFFORD1
7440-66-6	Zn-Dissolved Zinc by ICP	10	<b>10 U</b>	ug/L	EPA 200.7	2/28/14	ESTAFFORD1

# EMER/COC

14W13169

## DIVISION OF WATER RESOURCES

### Surface Water Fieldsheet

COUNTY : Caswell  
 RIVER BASIN : Roanoke 4  
 REPORT TO : Winston-Salem Regional Office  
 Other :  
 COLLECTOR(S) : Smith / Dose

PRIORITY  
 AMBIENT     QA  
 COMPLIANCE     CHAIN OF CUSTODY  
 EMERGENCY    VISIT ID           

SAMPLE TYPE  
 STREAM     EFFLUENT  
 LAKE     INFLUENT  
 ESTUARY    4

Lab Number : AC05801  
 Date Received : 3.6.14  
 Time Received : 7:50  
 Received By :             
 Data Released :  
 Date Reported :

Estimated BOD Range:

Station Location: Dan R. at Milton


Seed: \_\_\_\_\_ Chlorinated: \_\_\_\_\_

Remarks: \_\_\_\_\_

Station #/Location Code	Date Begin (yy/mm/dd)	Date End (yy/mm/dd)	Time Begin	Time End	Depth - DM, DB, DBM	Value Type - A, H, L	Composite-T, S, B	Sample Type
N3500000	14/3/5		10:40					G

BOD 310 mg/L	Chloride 940 mg/L	NH3 as N 610 mg/L	Li-Lithium 1132 ug/L
COD High 340 mg/L		TKN an N 625 mg/L	Mg- Magnesium 927 mg/L
COD Low 335 mg/L	Chlorophyll a EPA 445.0 modified option ug/L	NO2 plus NO3 as N 630 mg/L	Mn-Manganese 1055 ug/L
Coliform: MF Fecal 31616 /100ml		P: Total as P 665 mg/L	Na- Sodium 929 mg/L
Coliform: MF Total 31504 /100ml	Color: True 80 c.u.	PO4 as P 70507 mg/L	<input checked="" type="checkbox"/> Arsenic: Total 1002 ug/L
Coliform: tube Fecal 31615 /100ml	Color: (pH) 83 pH= c.u.	P: Dissolved as P 666 mg/L	Se- Selenium 1147 ug/L
Coliform: Fecal Strep 31673 /100ml	Color: pH 7.6 82 c.u.	K-Potassium mg/L	Hg- Mercury 71900 ug/L
Residue: Total 500 mg/L	Cyanide 720 mg/L	<input checked="" type="checkbox"/> Cd- Cadmium 1027 ug/L	Ba-Barium ug/L
Volatile 505 mg/L	Fluoride 951 mg/L	Cr-Chromium: Total 1034 ug/L	Organochlorine Pesticides
Fixed 510 mg/L	Formaldehyde 71880 mg/L	<input checked="" type="checkbox"/> Cu- Copper 1042 ug/L	Organophosphorus Pesticides
<input checked="" type="checkbox"/> Residue: Suspended 530 mg/L	Grease and Oils 556 mg/L	<input checked="" type="checkbox"/> Ni-Nickel 1067 ug/L	Organonitrogen Pesticides
Volatile 535 mg/L	Hardness Total 900 mg/L	Pb- Lead 1051 ug/L	Acid Herbicides
Fixed 540 mg/L	Specific Cond. 95 umhos/cm	<input checked="" type="checkbox"/> Zn- Zinc 1092 ug/L	
pH 403 units	MBAS 38260 mg/L	V-Vanadium ug/L	Base/Neutral& Acid Extractable Organics
Acidity to pH 4.5 436 mg/L	Phenols 32730 ug/L	Ag- Silver 1077 ug/L	TPH Diesel Range
Acidity to pH 8.3 435 mg/L	Sulfate 945 mg/L	<input checked="" type="checkbox"/> Al- Aluminum 1105 ug/L	
Alkalinity to pH 8.3 415 mg/L	Sulfide 745 mg/L	Be- Beryllium 1012 ug/L	Purgeable Organics (VOA bottle req'd)
Alkalinity to pH 4.5 410 mg/L	Boron	Ca- Calcium 916 mg/L	TPH Gasoline Range
TOC 680 mg/L	Tannin & Lignin ug/L	Co- Cobalt 1037 ug/L	TPH/BTEX Gasoline Range
Turbidity 76 NTU	Hexavalent Chromium ug/L	<input checked="" type="checkbox"/> Fe- Iron 1045 ug/L	Phytoplankton
Coliform Total Tube /100 ml	Bicarbonate mg/L	Mo-Molybdenum ug/L	
	Carbonate mg/L	Sb-Antimony ug/L	
	<input checked="" type="checkbox"/> Total Dissolved Solids mg/L	Sn-Tin ug/L	
		Tl-Thallium ug/L	
		Ti-Titanium ug/L	
		Hg-1631 ng/L	Temperature on arrival (°C): <u>1.9</u>

COMMENTS : \_\_\_\_\_

County: <b>CASWELL</b>	 <b>Final Report</b>	Sample ID: <b>AC05801</b>
River Basin: <b>ROA04</b>		PO Number #: <b>14W13169</b>
Report To: <b>WSROSP</b>		Date Received: <b>03/06/2014</b>
Collector: <b>L SNIDER</b>		Time Received: <b>07:50</b>
Region: <b>WSRO</b>		Labworks LoginID: <b>MSWIFT</b>
Sample Matrix: <b>SURFACEWATER</b>		Final Report Date: <b>3/14/14</b>
Loc. Type: <b>RIVER/STREAM</b>		Report Print Date: <b>03/15/2014</b>
Emergency Yes/No: <u>Yes</u>	VisitID	
COC Yes/No: <u>Yes</u>		
Loc. Descr.: <b>DAN R. AT MILTON</b>		
Location ID: <b>N3500000</b>	Collect Date: <b>03/05/2014</b>	Collect Time: <b>10:40</b>
Sample Depth		
<b>If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.</b>		

CAS #	Analyte Name	PQL	Result/ Qualifier	Units	Method Reference	Analysis Date	Validated by
<b>LAB</b>							
	Sample temperature at receipt by lab		1.1	°C		3/6/14	MSWIFT
<b>WET</b>							
	Residue_Suspended in liquid	6.2	11	mg/L	SM 2540 D-1997	3/6/14	CGREEN
	Total Dissolved Solids in liquid	12	79	mg/L	SM 2540 C-1997	3/6/14	CGREEN
<b>MET</b>							
7429-90-5	Al by ICP	50	540	ug/L	EPA 200.7	3/10/14	ESTAFFORD1
7440-38-2	As by ICPMS	2.0	2.0 U	ug/L	EPA 200.8	3/7/14	ESTAFFORD1
7440-43-9	Cd by ICPMS	0.50	0.50 U	ug/L	EPA 200.8	3/7/14	ESTAFFORD1
7440-50-8	Cu by ICPMS	2.0	2.0 U	ug/L	EPA 200.8	3/7/14	ESTAFFORD1
7439-89-6	Fe by ICP	50	870	ug/L	EPA 200.7	3/10/14	ESTAFFORD1
7440-02-0	Ni by ICPMS	2.0	2.0 U	ug/L	EPA 200.8	3/7/14	ESTAFFORD1
7440-66-6	Zn by ICP	10	10 U	ug/L	EPA 200.7	3/10/14	ESTAFFORD1

# EMER/COC

14W 13170

## DIVISION OF WATER RESOURCES

### Surface Water Fieldsheet

COUNTY : Caswell  
 RIVER BASIN : Roanoke 4  
 REPORT TO : Winston-Salem Regional Office  
 Other :  
 COLLECTOR(S) : Snider/Bone

PRIORITY  
 AMBIENT  QA  
 COMPLIANCE  CHAIN OF CUSTODY  
 EMERGENCY VISIT ID

SAMPLE TYPE  
 STREAM  EFFLUENT  
 LAKE  INFLUENT  
 ESTUARY

Lab Number AC05802  
 Date Received 3/6/14  
 Time Received 7:50  
 Received By mjo  
 Data Released :  
 Date Reported :

Estimated BOD Range:

Station Location: Dan R. at Milton

4

Seed: \_\_\_\_\_ Chlorinated: \_\_\_\_\_


Remarks: Dissolved metals

Station #/Location Code	Date Begin (yy/mm/dd)	Date End (yy/mm/dd)	Time Begin	Time End	Depth - DM, DB, DBM	Value Type - A, H, L	Composite-T, S, B	Sample Type
N3500000	14/3/5		1040					G

BOD 310	mg/L	Chloride 940	mg/L	NH3 as N 610	mg/L	Li-Lithium 1132	ug/L
COD High 340	mg/L			TKN an N 625	mg/L	Mg- Magnesium 927	mg/L
COD Low 335	mg/L	Chlorophyll a EPA 445.0 modified option	ug/L	NO2 plus NO3 as N 630	mg/L	Mn-Manganese 1055	ug/L
Coliform: MF Fecal 31616	/100ml			P: Total as P 665	mg/L	Na- Sodium 929	mg/L
Coliform: MF Total 31504	/100ml	Color: True 80	c.u.	PO4 as P 70507	mg/L	x Arsenic:Total 1002	ug/L
Coliform: tube Fecal 31615	/100ml	Color: (pH ) 83 pH=	c.u.	P: Dissolved as P 666	mg/L	Se- Selenium 1147	ug/L
Coliform: Fecal Strep 31673	/100ml	Color: pH 7.6 82	c.u.	K-Potassium	mg/L	Hg- Mercury 71900	ug/L
Residue: Total 500	mg/L	Cyanide 720	mg/L	x Cd- Cadmium 1027	ug/L	Ba-Barium	ug/L
Volatile 505	mg/L	Fluoride 951	mg/L	Cr-Chromium:Total 1034	ug/L	Organochlorine Pesticides	
Fixed 510	mg/L	Formaldehyde 71880	mg/L	x Cu- Copper 1042	ug/L	Organophosphorus Pesticides	
Residue: Suspended 530	mg/L	Grease and Oils 556	mg/L	x Ni-Nickel 1067	ug/L	Organonitrogen Pesticides	
Volatile 535	mg/L	Hardness Total 900	mg/L	Pb- Lead 1051	ug/L	Acid Herbicides	
Fixed 540	mg/L	Specific Cond. 95	umhos/cm	x Zn- Zinc 1092	ug/L		
pH 403	units	MBAS 38260	mg/L	V-Vanadium	ug/L	Base/Neutral&Acid Extractable Organics	
Acidity to pH 4.5 436	mg/L	Phenols 32730	ug/L	Ag- Silver 1077	ug/L	TPH Diesel Range	
Acidity to pH 8.3 435	mg/L	Sulfate 945	mg/L	x Al- Aluminum 1105	ug/L		
Alkalinity to pH 8.3 415	mg/L	Sulfide 745	mg/L	Be- Beryllium 1012	ug/L	Purgeable Organics (VOA bottle req'd)	
Alkalinity to pH 4.5 410	mg/L	Boron		Ca- Calcium 916	mg/L	TPH Gasoline Range	
TOC 680	mg/L	Tannin & Lignin	ug/L	Co- Cobalt 1037	ug/L	TPH/BTEX Gasoline Range	
Turbidity 76	NTU	Hexavalent Chromium	ug/L	x Fe- Iron 1045	ug/L	Phytoplankton	
Coliform Total Tube	/100 ml	Bicarbonate	mg/L	Mo-Molybdenum	ug/L		
		Carbonate	mg/L	Sb-Antimony	ug/L		
		Total Dissolved Solids	mg/L	Sn-Tin	ug/L		
				Tl-Thallium	ug/L		
				Ti-Titanium	ug/L		
				Hg-1631	ng/L	Temperature on arrival (°C):	11

COMMENTS : \_\_\_\_\_



County: <b>CASWELL</b>	 <b>Final Report</b>	Sample ID: <b>AC05802</b>
River Basin: <b>ROA04</b>		PO Number #: <b>14W13170</b>
Report To: <b>WSROSP</b>		Date Received: <b>03/06/2014</b>
Collector: <b>L SNIDER</b>		Time Received: <b>07:50</b>
Region: <b>WSRO</b>		Labworks LoginID: <b>MSWIFT</b>
Sample Matrix: <b>SURFACEWATER</b>		Final Report Date: <b>3/14/14</b>
Loc. Type: <b>RIVER/STREAM</b>		Report Print Date: <b>03/15/2014</b>
Emergency Yes/No: <u>Yes</u>	VisitID	
COC Yes/No: <u>Yes</u>		
Loc. Descr.: <b>DAN R. AT MILTON</b>		
Location ID: <b>N3500000</b>	Collect Date: <b>03/05/2014</b>	Collect Time: <b>10:40</b>
Sample Depth		
<b>If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.</b>		

CAS #	Analyte Name	PQL	Result/ Qualifier	Units	Method Reference	Analysis Date	Validated by
<b>LAB</b>							
	Sample temperature at receipt by lab		1.1	°C		3/6/14	MSWIFT
<b>MET</b>							
7440-38-2	As- Dissolved by ICPMS Arsenic	2.0	2.0 U	ug/L	EPA 200.8	3/7/14	ESTAFFORD1
7440-43-9	Cd- Dissolved Cadmium by ICPMS	0.50	0.50 U	ug/L	EPA 200.8	3/7/14	ESTAFFORD1
7440-50-8	Cu- Dissolved Copper by ICPMS	2.0	2.0 U	ug/L	EPA 200.8	3/7/14	ESTAFFORD1
7439-89-6	Fe- Dissolved Iron by ICP	50	71	ug/L	EPA 200.7	3/10/14	ESTAFFORD1
7440-02-0	Ni-Dissolved Nickel by ICPMS	2.0	2.0 U	ug/L	EPA 200.8	3/7/14	ESTAFFORD1
7429-90-5	Al - Dissolved Aluminum by ICP	50	50 U	ug/L	EPA 200.7	3/10/14	ESTAFFORD1
7440-66-6	Zn-Dissolved Zinc by ICP	10	10 U	ug/L	EPA 200.7	3/10/14	ESTAFFORD1

DIVISION OF WATER RESOURCES

Surface Water Fieldsheet

COUNTY : Caswell  
 RIVER BASIN : Roanoke 4  
 REPORT TO : Winston-Salem Regional Office  
 Other :  
 COLLECTOR(S) : Spide

PRIORITY  
 AMBIENT  QA  
 COMPLIANCE  CHAIN OF CUSTODY  
 EMERGENCY VISIT ID 1870

SAMPLE TYPE  
 STREAM  EFFLUENT  
 LAKE  INFLUENT  
 ESTUARY

4

Lab Number : AC06108  
 Date Received : 2-13-2014  
 Time Received : 7:50  
 Received By : MS  
 Data Released :  
 Date Reported :

Estimated BOD Range:

Station Location: Dan R. at Milton

Seed: \_\_\_\_\_


Chlorinated: \_\_\_\_\_

Remarks: \_\_\_\_\_

Station #/Location Code	Date Begin (yy/mm/dd)	Date End (yy/mm/dd)	Time Begin	Time End	Depth - DM, DB, DBM	Value Type - A, H, L	Composite-T, S, B	Sample Type
N3500000	14/3/12		1870					G

BOD 310	mg/L	Chloride 940	mg/L	NH3 as N 610	mg/L	Li-Lithium 1132	ug/L
COD High 340	mg/L			TKN an N 625	mg/L	Mg- Magnesium 927	mg/L
COD Low 335	mg/L	Chlorophyll a EPA 445.0 modified option	ug/L	NO2 plus NO3 as N 630	mg/L	Mn-Manganese 1055	ug/L
Coliform: MF Fecal 31616	/100ml			P: Total as P 665	mg/L	Na- Sodium 929	mg/L
Coliform: MF Total 31504	/100ml	Color: True 80	c.u.	PO4 as P 70507	mg/L	x Arsenic:Total 1002	ug/L
Coliform: tube Fecal 31615	/100ml	Color: (pH ) 83 pH=	c.u.	P: Dissolved as P 666	mg/L	Se- Selenium 1147	ug/L
Coliform: Fecal Strep 31673	/100ml	Color: pH 7.6 82	c.u.	K-Potassium	mg/L	Hg- Mercury 71900	ug/L
Residue: Total 500	mg/L	Cyanide 720	mg/L	x Cd- Cadmium 1027	ug/L	Ba-Barium	ug/L
Volatile 505	mg/L	Fluoride 951	mg/L	Cr-Chromium:Total 1034	ug/L	Organochlorine Pesticides	
Fixed 510	mg/L	Formaldehyde 71880	mg/L	x Cu- Copper 1042	ug/L	Organophosphorus Pesticides	
x Residue: Suspended 530	mg/L	Grease and Oils 556	mg/L	x Ni-Nickel 1067	ug/L	Organonitrogen Pesticides	
Volatile 535	mg/L	Hardness Total 900	mg/L	Pb- Lead 1051	ug/L	Acid Herbicides	
Fixed 540	mg/L	Specific Cond. 95	umhos/cm	x Zn- Zinc 1092	ug/L		
pH 403	units	MBAS 38260	mg/L	V-Vanadium	ug/L	Base/Neutral&Acid Extractable Organics	
Acidity to pH 4.5 436	mg/L	Phenols 32730	ug/L	Ag- Silver 1077	ug/L	TPH Diesel Range	
Acidity to pH 8.3 435	mg/L	Sulfate 945	mg/L	x Al- Aluminum 1105	ug/L		
Alkalinity to pH 8.3 415	mg/L	Sulfide 745	mg/L	Be- Beryllium 1012	ug/L	Purgeable Organics (VOA bottle req'd)	
Alkalinity to pH 4.5 410	mg/L	Boron		Ca- Calcium 916	mg/L	TPH Gasoline Range	
TOC 680	mg/L	Tannin & Lignin	ug/L	Co- Cobalt 1037	ug/L	TPH/BTEX Gasoline Range	
Turbidity 76	NTU	Hexavalent Chromium	ug/L	x Fe- Iron 1045	ug/L	Phytoplankton	
Coliform Total Tube	/100 ml	Bicarbonate	mg/L	Mo-Molybdenum	ug/L		
		Carbonate	mg/L	Sb-Antimony	ug/L		
		x Total Dissolved Solids	mg/L	Sn-Tin	ug/L		
				Tl-Thallium	ug/L		
				Ti-Titanium	ug/L		
				Hg-1631	ng/L	Temperature on arrival (°C):	1.7

COMMENTS : \_\_\_\_\_

County: <b>CASWELL</b>	 <b>Division of Water Resources</b>	Sample ID: <b>AC06103</b>
River Basin: <b>ROA04</b>		PO Number #: <b>14W13389</b>
Report To: <b>WSROSP</b>		Date Received: <b>03/13/2014</b>
Collector: <b>L SNIDER</b>		Time Received: <b>07:50</b>
Region: <b>WSRO</b>	Labworks LoginID: <b>MSWIFT</b>	Final Report Date: <b>3/21/14</b>
Sample Matrix: <b>SURFACEWATER</b>		Report Print Date: <b>03/21/2014</b>
Loc. Type: <b>RIVER/STREAM</b>		
Emergency Yes/No: <u>Yes</u>	VisitID:	
COC Yes/No: <u>Yes</u>		
<b>Final Report</b>		
Loc. Descr.: <b>DAN R. AT MILTON</b>		
Location ID: <b>N3500000</b>	Collect Date: <b>03/12/2014</b>	Collect Time: <b>10:40</b>
Sample Depth		
<b>If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.</b>		

CAS #	Analyte Name	PQL	Result/ Qualifier	Units	Method Reference	Analysis Date	Validated by
<b>LAB</b>							
	Sample temperature at receipt by lab		1.7	°C		3/13/14	MSWIFT
<b>WET</b>							
	Residue_Suspended in liquid	6.2	42	mg/L	SM 2540 D-1997	3/13/14	MOVERMAN
<b>MET</b>							
7429-90-5	Al by ICP	50	2600	ug/L	EPA 200.7	3/17/14	ESTAFFORD1
7440-38-2	As by ICPMS	2.0	2.0 U	ug/L	EPA 200.8	3/18/14	ESTAFFORD1
7440-43-9	Cd by ICPMS	0.50	0.50 U	ug/L	EPA 200.8	3/18/14	ESTAFFORD1
7440-50-8	Cu by ICPMS	2.0	2.7	ug/L	EPA 200.8	3/18/14	ESTAFFORD1
7439-89-6	Fe by ICP	50	2800	ug/L	EPA 200.7	3/17/14	ESTAFFORD1
7440-02-0	Ni by ICPMS	2.0	2.0 U	ug/L	EPA 200.8	3/18/14	ESTAFFORD1
7440-66-6	Zn by ICP	10	12	ug/L	EPA 200.7	3/17/14	ESTAFFORD1
<b>Others</b>							
	Total Dissolved Solids in liquid	12	58	mg/L	APHA2540C-18TH	3/16/14	MOVERMAN

14W 133 ~~89~~ mp  
91

5 mp

DIVISION OF WATER RESOURCES

Surface Water Fieldsheet

COUNTY : Caswell  
 RIVER BASIN : Roanoke 4  
 REPORT TO : Winston-Salem Regional Office  
 Other :  
 COLLECTOR(S) : Snyder

PRIORITY  
 AMBIENT  QA  
 COMPLIANCE  CHAIN OF CUSTODY  
 EMERGENCY VISIT ID           

SAMPLE TYPE  
 STREAM  EFFLUENT  
 LAKE  INFLUENT  
 ESTUARY 4

Lab Number : ACOL10X  
 Date Received : 3-13-2014  
 Time Received : 7:50  
 Received By : JK  
 Data Released :  
 Date Reported :

Estimated BOD Range:

Station Location: Dan R. at Milton

Seed: \_\_\_\_\_ Chlorinated: \_\_\_\_\_


Remarks: Dissolved metals

Station #/Location Code	Date Begin (yy/mm/dd)	Date End (yy/mm/dd)	Time Begin	Time End	Depth - DM, DB, DBM	Value Type - A, H, L	Composite-T, S, B	Sample Type
N3500000	14/3/12		1040					G

BOD 310	mg/L	Chloride 940	mg/L	NH3 as N 610	mg/L	Li-Lithium 1132	ug/L
COD High 340	mg/L	Chlorophyll a EPA 445.0 modified option	ug/L	TKN an N 625	mg/L	Mg- Magnesium 927	mg/L
COD Low 335	mg/L	Color: True 80	c.u.	NO2 plus NO3 as N 630	mg/L	Mn-Manganese 1055	ug/L
Coliform: MF Fecal 31616	/100ml	Color: (pH ) 83 pH=	c.u.	P: Total as P 665	mg/L	Na- Sodium 929	mg/L
Coliform: MF Total 31504	/100ml	Color: pH 7.6 82	c.u.	PO4 as P 70507	mg/L	x Arsenic:Total 1002	ug/L
Coliform: tube Fecal 31615	/100ml	Cyanide 720	mg/L	P: Dissolved as P 666	mg/L	Se- Selenium 1147	ug/L
Coliform: Fecal Strep 31673	/100ml	Fluoride 951	mg/L	K-Potassium	mg/L	Hg- Mercury 71900	ug/L
Residue: Total 500	mg/L	Formaldehyde 71880	mg/L	x Cd- Cadmium 1027	ug/L	Ba-Barium	ug/L
Volatile 505	mg/L	Grease and Oils 556	mg/L	Cr-Chromium:Total 1034	ug/L	Organochlorine Pesticides	
Fixed 510	mg/L	Hardness Total 900	mg/L	x Cu- Copper 1042	ug/L	Organophosphorus Pesticides	
Residue: Suspended 530	mg/L	Specific Cond. 95	umhos/cm	x Ni-Nickel 1067	ug/L	Organonitrogen Pesticides	
Volatile 535	mg/L	MBAS 38260	mg/L	Pb- Lead 1051	ug/L	Acid Herbicides	
Fixed 540	mg/L	Phenols 32730	ug/L	x Zn- Zinc 1092	ug/L		
pH 403	units	Sulfate 945	mg/L	V-Vanadium	ug/L	Base/Neutral&Acid Extractable Organics	
Acidity to pH 4.5 436	mg/L	Sulfide 745	mg/L	Ag- Silver 1077	ug/L	TPH Diesel Range	
Acidity to pH 8.3 435	mg/L	Boron		x Al- Aluminum 1105	ug/L		
Alkalinity to pH 8.3 415	mg/L	Tannin & Lignin	ug/L	Be- Beryllium 1012	ug/L	Purgeable Organics (VOA bottle req'd)	
Alkalinity to pH 4.5 410	mg/L	Hexavalent Chromium	ug/L	Ca- Calcium 916	mg/L	TPH Gasoline Range	
TOC 680	mg/L	Bicarbonate	mg/L	Co- Cobalt 1037	ug/L	TPH/BTEX Gasoline Range	
Turbidity 76	NTU	Carbonate	mg/L	x Fe- Iron 1045	ug/L	Phytoplankton	
Coliform Total Tube	/100 ml	Total Dissolved Solids	mg/L	Mo-Molybdenum	ug/L		
				Sb-Antimony	ug/L		
				Sn-Tin	ug/L		
				Tl-Thallium	ug/L		
				Ti-Titanium	ug/L		
				Hg-1631	ng/L	Temperature on arrival (°C):	17

COMMENTS : \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

①

County:	<u>CASWELL</u>	 <b>Final Report</b>	Sample ID:	<b>AC06105</b>
River Basin:	<u>ROA04</u>		PO Number #	<b>14W13391</b>
Report To:	<u>WSROSP</u>		Date Received:	<b>03/13/2014</b>
Collector:	<u>L SNIDER</u>		Time Received:	<b>07:50</b>
Region:	<u>WSRO</u>	Labworks LoginID	<b>MSWIFT</b>	
Sample Matrix:	<u>SURFACEWATER</u>	Final Report Date:	<b>3/20/14</b>	
Loc. Type:	<u>RIVER/STREAM</u>	Report Print Date:	<b>03/21/2014</b>	
Emergency Yes/No	<u>Yes</u>	VisitID		
COC Yes/No	<u>Yes</u>			
Loc. Descr.: <u>DAN R. AT MILTON</u>				
Location ID: <b>N3500000</b>		Collect Date: <b>03/12/2014</b>	Collect Time: <b>10:40</b>	Sample Depth
<b>If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.</b>				

<u>CAS #</u>	<u>Analyte Name</u>	<u>PQL</u>	<u>Result/Qualifier</u>	<u>Units</u>	<u>Method Reference</u>	<u>Analysis Date</u>	<u>Validated by</u>
<b>LAB</b>	Sample temperature at receipt by lab		<b>1.7</b>	°C		3/13/14	MSWIFT
<b>MET</b>							
7440-38-2	As- Dissolved by ICPMS Arsenic	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	3/18/14	ESTAFFORD1
7440-43-9	Cd- Dissolved Cadmium by ICPMS	0.50	<b>0.50 U</b>	ug/L	EPA 200.8	3/18/14	ESTAFFORD1
7440-50-8	Cu- Dissolved Copper by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	3/18/14	ESTAFFORD1
7439-89-6	Fe- Dissolved Iron by ICP	50	<b>50 U</b>	ug/L	EPA 200.7	3/17/14	ESTAFFORD1
7440-02-0	Ni-Dissolved Nickel by ICPMS	2.0	<b>2.0 U</b>	ug/L	EPA 200.8	3/18/14	ESTAFFORD1
7429-90-5	Al - Dissolved Aluminum by ICP	50	<b>50 U</b>	ug/L	EPA 200.7	3/17/14	ESTAFFORD1
7440-66-6	Zn-Dissolved Zinc by ICP	10	<b>11</b>	ug/L	EPA 200.7	3/17/14	ESTAFFORD1

14W13435  
~~14W13435~~

DIVISION OF WATER RESOURCES

Surface Water Fieldsheet

COUNTY : Caswell  
 RIVER BASIN : Roanoke 04  
 REPORT TO : Winston-Salem Regional Office  
 Other :  
 COLLECTOR(S) : Snider

PRIORITY  
 AMBIENT  QA  
 COMPLIANCE  CHAIN OF CUSTODY  
 EMERGENCY VISIT ID

SAMPLE TYPE  
 STREAM  EFFLUENT  
 LAKE  INFLUENT  
 ESTUARY

4

Lab Number : AC06151  
 Date Received : 3-13-14  
 Time Received : 750  
 Received By : MA  
 Data Released :  
 Date Reported :

Estimated BOD Range:

Station Location: Dan R. at Milton


Seed: \_\_\_\_\_ Chlorinated: \_\_\_\_\_

Remarks: 431 Hg 205 Mercury field blank

Station #/Location Code	Date Begin (yy/mm/dd)	Date End (yy/mm/dd)	Time Begin	Time End	Depth - DM, DB, DBM	Value Type - A, H, L	Composite-T, S, B	Sample Type
N3500000	14/3/12		1031					From lab

BOD 310	mg/L	Chloride 940	mg/L	NH3 as N 610	mg/L	Li-Lithium 1132	ug/L
COD High 340	mg/L	Chlorophyll a EPA 445.0 modified option	ug/L	TKN an N 625	mg/L	Mg- Magnesium 927	mg/L
COD Low 335	mg/L	Color: True 80	c.u.	NO2 plus NO3 as N 630	mg/L	Mn-Manganese 1055	ug/L
Coliform: MF Fecal 31616	/100ml	Color: (pH ) 83 pH=	c.u.	P. Total as P 665	mg/L	Na- Sodium 929	mg/L
Coliform: MF Total 31504	/100ml	Color: pH 7.6 82	c.u.	PO4 as P 70507	mg/L	Arsenic:Total 1002	ug/L
Coliform: tube Fecal 31615	/100ml	Cyanide 720	mg/L	P. Dissolved as P 666	mg/L	Se- Selenium 1147	ug/L
Coliform: Fecal Strep 31673	/100ml	Fluoride 951	mg/L	K-Potassium	mg/L	Hg- Mercury 71900	ug/L
Residue: Total 500	mg/L	Formaldehyde 71880	mg/L	Cd- Cadmium 1027	ug/L	Ba-Barium	ug/L
Volatile 505	mg/L	Grease and Oils 556	mg/L	Cr-Chromium:Total 1034	ug/L	Organochlorine Pesticides	
Fixed 510	mg/L	Hardness Total 900	mg/L	Cu- Copper 1042	ug/L	Organophosphorus Pesticides	
Residue: Suspended 530	mg/L	Specific Cond. 95	umhos/cm	Ni-Nickel 1067	ug/L	Organonitrogen Pesticides	
Volatile 535	mg/L	MBAS 38260	mg/L	Pb- Lead 1051	ug/L	Acid Herbicides	
Fixed 540	mg/L	Phenols 32730	ug/L	Zn- Zinc 1092	ug/L	Base/Neutral&Acid Extractable Organics	
pH 403	units	Sulfate 945	mg/L	V-Vanadium	ug/L	TPH Diesel Range	
Acidity to pH 4.5 436	mg/L	Sulfide 745	mg/L	Ag- Silver 1077	ug/L	Purgeable Organics (VOA bottle req'd)	
Acidity to pH 8.3 435	mg/L	Boron		Al- Aluminum 1105	ug/L	TPH Gasoline Range	
Alkalinity to pH 8.3 415	mg/L	Tannin & Lignin	ug/L	Be- Beryllium 1012	ug/L	TPH/BTEX Gasoline Range	
Alkalinity to pH 4.5 410	mg/L	Hexavalent Chromium	ug/L	Ca- Calcium 916	mg/L	Phytoplankton	
TOC 680	mg/L	Bicarbonate	mg/L	Co- Cobalt 1037	ug/L		
Turbidity 76	NTU	Carbonate	mg/L	Fe- Iron 1045	ug/L		
Coliform Total Tube	/100 ml	Total Dissolved Solids	mg/L	Mo-Molybdenum	ug/L		
				Sb-Antimony	ug/L		
				Sn-Tin	ug/L		
				Tl-Thallium	ug/L		
				Ti-Titanium	ug/L		
				x Hg-1631	ng/L	Temperature on arrival (°C):	

COMMENTS :

County: <u>CASWELL</u>	 <b>Division of Water Resources</b> <b>Final Report</b>	Sample ID: <b>AC06151</b>
River Basin: <u>ROA04</u>		PO Number #: <b>14W13435</b>
Report To: <u>WSROSP</u>		Date Received: <b>03/13/2014</b>
Collector: <u>L SNIDER</u>		Time Received: <b>07:50</b>
Region: <u>WSRO</u>		Labworks LoginID: <b>MSWIFT</b>
Sample Matrix: <u>BLANKWATER</u>		Final Report Date: <b>3/20/14</b>
Loc. Type: <u>FIELD BLANK</u>	Report Print Date: <b>03/21/2014</b>	
Emergency Yes/No: <u>Yes</u>	VisitID	
COC Yes/No: <u>Yes</u>		
Loc. Descr.: <u>DAN R. AT MILTON MERCURY FIELD BLANK</u>		
Location ID: <b>N3500000</b>	Collect Date: <b>03/12/2014</b>	Collect Time: <b>10:31</b>
Sample Depth		
<b>If this report is labeled preliminary report, the results have not been validated. Do not use for Regulatory purposes.</b>		

<u>CAS #</u>	<u>Analyte Name</u>	<u>PQL</u>	<u>Result/Qualifier</u>	<u>Units</u>	<u>Method Reference</u>	<u>Analysis Date</u>	<u>Validated by</u>
<b>MET</b>							
7439-97-6	Hg 1631	1.00	<b>1.00 U</b>	ng/L	EPA 1631E	3/19/14	ESTAFFORD1