Excel Civil & Environmental Associates, PLLC
625 Huntsman Court
Gastonia, North Carolina 28054
NC License No. P-0129
Telephone: (704) 853-0800
Facsimile: (704) 853-3949
Internet: www.excelengr.com

RECEIVED
NCDENR
Division of Waste Management
JAN 04 2013
UST Section
Mooresville Regional Office

December 31, 2012

Mr. Brett Morris
NCDENR / MRO / DWM
610 East Center Avenue
Mooresville, North Carolina 28115

Re: Active Remediation Monitoring Report
(Former) SERVCO No. 00311
24 North Church Street
Concord, North Carolina
Risk Classification: **High (H155)**
Land Use: **Residential**
NCDENR Incident No. **27502**
EXCEL Project No. **23056**

Dear Mr. Morris:

Excel Civil & Environmental Associates, PLLC (Excel) on behalf of Service Distributing Company, Incorporated (Servco) is pleased to submit a copy of the Active Remediation Monitoring Report for your approval.

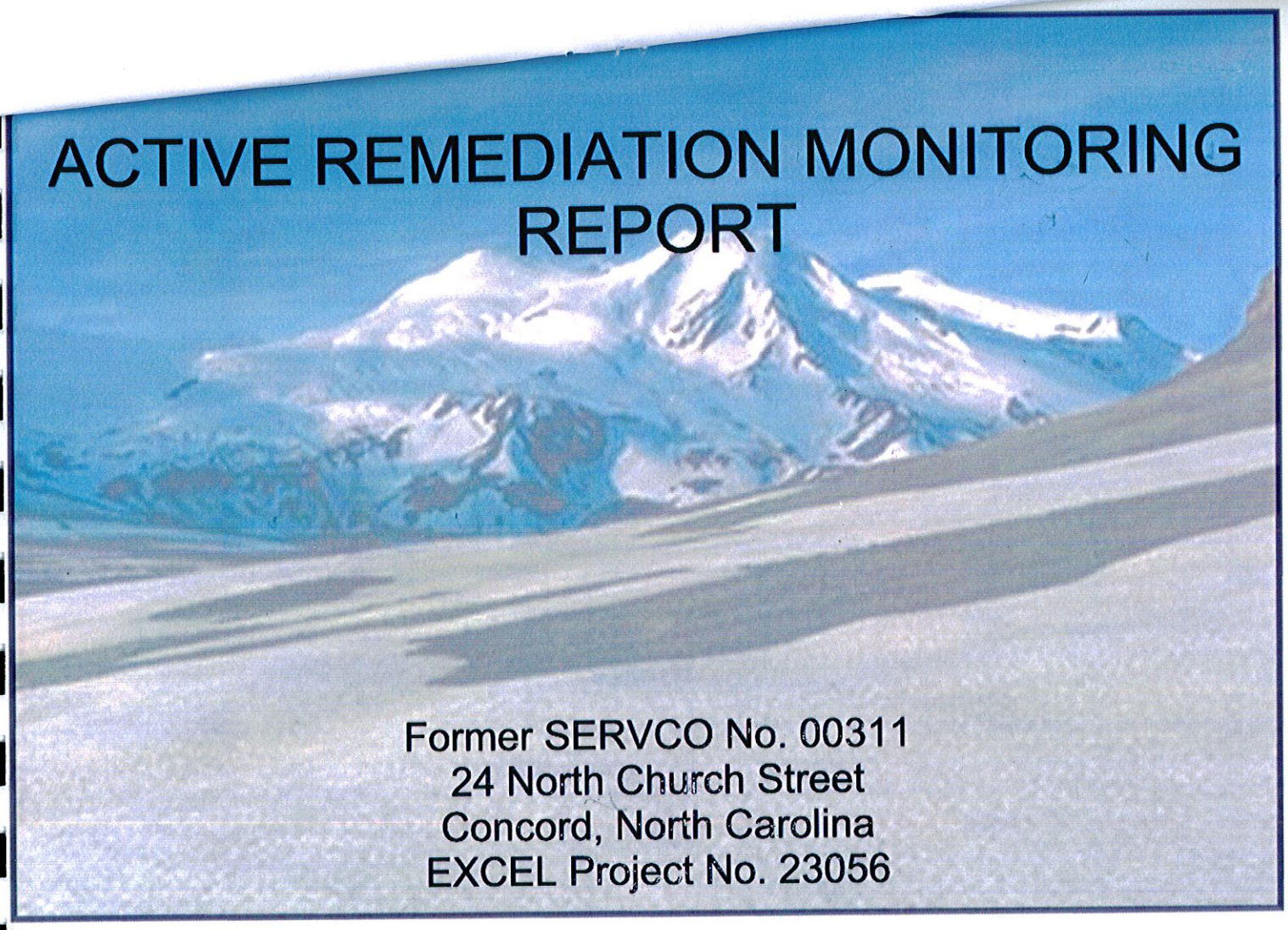
If you have any comments, please do not hesitate to contact me at 704.853.0800.

Sincerely yours,

EXCEL CIVIL & ENVIRONMENTAL ASSOCIATES, PLLC

M.T. Stanforth, P.E., DEE
Project Engineer

p.c. Robert Gresham – SERVCO, Albemarle, NC



ACTIVE REMEDIATION MONITORING REPORT

Former SERVCO No. 00311
24 North Church Street
Concord, North Carolina
EXCEL Project No. 23056

Prepared for:

Mr. Bob Gresham
Service Distributing Company, Incorporated
P. O. Box 310
Albemarle, NC 28001

December 31, 2012

Prepared by:

Excel Civil & Environmental Associates, PLLC
Post Office Box 6172
Gastonia, NC 28056-6000
Telephone: 704.853.0800
Facsimile: 704.853.3949

ACTIVE REMEDIATION MONITORING REPORT

RECEIVED
NCDENR
Division of Waste Management

JAN 04 2013

UST Section
Mooresville Regional Office

(FORMER) SERVCO NO. 00311
24 NORTH CHURCH STREET
CONCORD, CABARRUS COUNTY, NORTH CAROLINA

NCDENR INCIDENT NO. 27502
EXCEL PROJECT NO. 23056

LATITUDE = 35°24'44" (N) / LONGITUDE = 80°34'51" (W)

Source of Release

Former Gasoline UST System – Amount Unknown

Date submitted

December 31, 2012

Prepared for

Service Distributing Company, Incorporated
Responsible Party
1024 North Second Street
Albemarle, North Carolina 28001
Attn: Robert Gresham

Prepared by

Excel Civil & Environmental Associates, PLLC
625 Huntsman Court
Gastonia, North Carolina 28054
NC License No. P-0129

ecea
Excel Civil & Environmental Associates
Quality • Reliability • Integrity • Sustainability
www.excelengr.com

12/31/2012

Thomas W. Garrison, III
Senior Project Manager

Michael T. Stanforth, P.E.
Principal Engineer

PROJECT SUMMARY

- Groundwater quality samples were collected from ten (10) monitoring wells on December 3, 2012 and laboratory analyzed for volatile organics by EPA Method 6200B including MTBE, IPE and EDB. Free product was observed at the location of monitoring well MW-8, additionally, monitoring well MW-10 was located but found to have been damaged assumed during recent resurfacing activities conducted by others. This well was not replaced at the request of the client pending preapproval task authorization. Water supply well WS-1 was not sampled due to the well reportedly being inoperable during the site visit.

  It is Excel's standard operating procedure not to gauge monitoring wells with an oil-water interface probe prior to sampling if said well has not historically shown free product. Static water levels were collected with a decontaminated water level indicator.

- The results of the laboratory data indicates that the samples from monitoring well MW-9 was found to be above NCAC 2L standards for *benzene*. In summary the laboratory analysis further indicates *MTBE* was exceeded in samples collected from MW-2, MW-5, MW-9 and MW-12; *IPE* was exceeded in sample collected from MW-9; *PCE* was exceeded in samples collected from MW-2, MW-3, MW-5, MW-7, MW-11, MW-12 and MW-14. None of the groundwater samples collected indicated any constituents exceeding Gross Contamination Levels (GCLs).

  Based upon a review of the current analytical data, the estimated size of the area of elevated benzene and MTBE exceeding NCAC 2L Standards is approximately 48,000 square feet in size, primarily located on subject property and spanning offsite onto the adjacent properties to the north and northeast. Comparing the analytical data from previous groundwater sampling events conducted prior to system startup in June 2010, most areas continue to show overall decrease of petroleum constituents, with the exception of MW-12, at an average reduction for benzene and MTBE at 79.64-% and 68.66-%, respectively for the reporting period.

- Review of the current liquid level data indicates that the predominant groundwater flow at the site is in a north-northeastern direction.

- Based on previous receptor surveys completed by ECEA there is one water supply well currently being utilized for irrigation purposes only and located within 250-feet of the subject property. In addition, according to the USGS, the closest surface water body appears to be an unnamed tributary of Three Mile Branch located approximately 500-feet north of the subject property. It appears the surface water is classified as a class "C" surface water.

- Based on the presence of the irrigation well located within 250-feet of the source area, the site is ranked as a "High" risk site.

- The soils and groundwater remediation system, consisting of a soil vapor extraction and air sparge system was started up on June 28, 2010. Initial system set points were approximately 140 inches WC for the vapor extraction and 5 psi for the air sparge systems. Excel conducted routine maintenance during the November 2012 site visit consisting of changing filters and oil in each component. The system ran continuously for the duration of the reporting period with no major issues to report at this time.

CONCLUSIONS & RECOMMENDATIONS

- In summary, current laboratory analytical data indicates that overall dissolved phase hydrocarbon constituents (primarily BTEX and MTBE) continues to occur at the site, with free phase contamination remaining at small amounts at the location of MW-8. Remaining constituent levels exceed the NCAC 2L Standards at multiple locations for various constituents.

- At this time, based on the information in this report, we recommend continued operation of the remediation system along with semiannual groundwater sampling and monthly operation and maintenance.

PROJECT INFORMATION

PRIMARY CONSULTANT:	Excel Civil & Environmental Associates, PLLC
PROJECT MANAGER:	Mike Stanforth
SERVCO CONTACT:	Robert Gresham
SITE HISTORY:	All five regulated UST's were removed as part of one excavation during the closure activities in April 2003. A review of the results reportedly indicated soil-sampling results with elevated levels of petroleum hydrocarbons above the applicable NCDENR standards. A Limited Site Assessment Report was completed in September 2003 which identified contaminated soils and groundwater beneath the site with one water supply well utilized for irrigation purposes located approximately 200 feet upgradient of the site. The nearest surface water body is an unnamed tributary of Three mile Branch, which is located approximately 500-feet north of the site. A Comprehensive Site Assessment Report was completed in July 2004 which further defined the extent of soils and groundwater contamination. Excel completed a Corrective Action Plan for the property in February 2009 which recommended the utilization of air sparging & soil vapor extraction (SVE) for remediation of underlying soils & groundwater at the site. Excel contracted Onion Equipment Company and Harvest Environmental Services, Incorporated for the installation and startup of the SVE and air sparge remediation system, comprised of nine air sparge points and twelve SVE wells. The remediation system was started up on June 28, 2010.
GENERAL GEOLOGY:	Geologically, the subject site is located in the Central Piedmont Physiographic Province. The 1985 USGS Geologic Map of North Carolina indicates this area of the Central Piedmont consists of metamorphosed quartz diorite, which is foliated to massive. The soils were identified as silts and clays with heavy weathered rock encountered at 45-fbgl.

REGULATORY INTERACTION

AGENCY:	NCDENR, MRO, DWM, UST Section
AGENCY CONTACT:	Brett Morris
REQUEST:	Monthly system O&M and semiannual groundwater sampling
SITE ACTIVITIES:	Monthly site visits to perform operation and maintenance on the air sparging and soil vapor extraction system. Semiannual groundwater sampling and liquid level collection

RISK ASSESSMENT

SENSITIVE RECEPTORS:	Underground utilities onsite and within R/Ws of Church Street, one irrigation well approximately 200 feet upgradient and Three Mile Branch approximately 500 feet north of site.
CLOSEST POTABLE WELL:	WS-1 located within 200 feet reportedly used for irrigation purposes

MONITORING

SAMPLING METHOD & LIQUID LEVEL GAUGING FREQUENCY:	Select Wells for 6200B on a Semiannual Basis
REPORTING FREQUENCY:	Semiannual Basis

GROUNDWATER CONDITIONS

TABLE 1 - LIQUID LEVEL DATA

Date Collected: December 2012

Well ID Number	Top of Casing	Total Well Depth	Screen Interval	Depth to Product	Depth to Water	Product Thickness	Water Table Elevation
MW-1	100.00'	45'	20' – 45'	NOT SAMPLED – OBSERVED TO BE DRY			
MW-2	99.63'	44'	19' – 44'	--	38.60'	--	61.03'
MW-3	99.34'	43'	18' – 43'	--	39.40'	--	59.94'
MW-4	100.10'	45'	20' – 45'	--	39.90'	--	60.20'
MW-5	99.97'	45'	20' – 45'	--	41.50'	--	58.47'
MW-6	99.22'	40'	20' – 40'	--	39.00'	--	60.22'
MW-7	91.79'	37'	17' – 37'	--	32.40'	--	59.39'
MW-8	99.28'	49'	29' – 49'	39.60'	39.75'	0.15'	59.64'
MW-9	80.24'	26'	11' – 26'	--	21.00'	--	59.24'
MW-10	79.39'	25'	10' – 25'	NOT SAMPLED – DESTROYED			
MW-11	68.94'	20'	10' – 20'	--	10.65'	--	58.29'
MW-12	72.04'	22'	12' – 22'	--	14.05'	--	57.99'
MW-13	70.44'	25'	10' – 25'	--	10.95'	--	59.49'
MW-14	71.74'	25'	10' – 25'	--	12.60'	--	59.14'
VW-1	--	65'	60' – 65'	--	40.28'	--	--
VW-2	--	61'	56' – 61'	--	39.65'	--	--

TABLE 2 - SUMMARY OF GROUNDWATER ANALYTICAL DATA

Well ID No.	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	IPE	Naphthalene	PCE	TCE
NCAC 2L		1	600	600	500	20	70	6	0.7	3
GCLs		5,000	260,000	84,500	85,500	20,000	70,000	6,000	700	3,000
MW-1	7/2/03	**1,300**	140	140	**580**	**1,800**	**78**	**82**	NA	NA
	3/12/07	**680**	< 50	< 10	12	**1,300**	51	NA	**55**	**88**
	9/18/08	< 1	< 5	< 1	< 3	< 1	< 1	NA	**1.1**	< 1
	11/3/09	**240**	17	4.8	30	**640**	22	NA	**22**	< 1
	5/27/10	**170**	15	8.4	39	**650**	17	NA	**4**	< 1
	11/4/10	**36**	< 25	< 5	< 15	**530**	16	NA	< 5	< 5
	5/11/11	**39**	< 25	< 5	< 15	**500**	14	NA	**12**	< 5
	10/11/11	**21**	< 5	< 1	< 3	**170**	5	**170**	**4.3**	< 1
	5/21/12	**16**	< 5	< 1	1.2	**230**	5.8	**7.2**	**4.6**	< 1
	12/3/12	NOT SAMPLED - DRY								
MW-2	7/2/03	**1,300**	80	76	210	**1,100**	37	**110**	NA	NA
	3/12/07	**390**	48	< 5	59	**480**	18	NA	**8.4**	< 5
	9/18/08	**230**	< 100	< 20	20	**660**	25	NA	< 20	< 20
	11/3/09	**260**	< 50	< 10	49	**740**	22	NA	< 10	< 10
	5/27/10	**210**	160	33	216	**640**	18	NA	**3.8**	< 1
	11/4/10	**5.5**	< 25	< 5	< 15	**500**	18	NA	< 5	< 5
	5/11/11	< 5	< 25	< 5	< 15	**580**	17	NA	< 5	< 5
	10/11/11	**3.4**	< 5	< 1	6	**340**	14	< 5	**4**	< 1
	5/21/12	< 5	< 25	< 5	< 15	**190**	6.7	< 25	**6.8**	< 5
	12/3/12	< 1	< 5	< 1	< 3	**150**	5.3	< 5	**5.4**	< 1
MW-3	8/27/03	**7.3**	< 5	2	29	**360**	19	< 10	NA	NA
	3/12/07	< 1	< 5	< 1	< 3	**24**	1.6	NA	**10**	< 1
	9/18/08	< 1	< 5	< 1	< 3	9.8	1.2	NA	**7.2**	< 1
	11/3/09	< 1	< 5	< 1	< 3	1.2	< 1	NA	**7.2**	< 1
	5/27/10	< 1	< 5	< 1	< 3	3.1	< 1	NA	**5.1**	< 1
	11/4/10	< 1	< 5	< 1	< 3	< 1	< 1	NA	**4.3**	< 1

NOTES: Data provided in ug/l / NA – Not Analyzed / MTBE – Methyl Tert Butyl Ether / IPE – Di-Isopropyl Ether / PCE – Tetrachloroethene
TCE – Trichloroethene / NCAC – North Carolina Administrative Code / Data in **BOLD** exceeds NCAC 2L, highlighted data exceeds GCLs

TABLE 2 - SUMMARY OF GROUNDWATER ANALYTICAL DATA (Continued)

Well ID No.	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	IPE	Naphthalene	PCE	TCE
NCAC 2L		1	600	600	500	20	70	6	0.7	3
GCLs		5,000	260,000	84,500	85,500	20,000	70,000	6,000	700	3,000
MW-3	5/11/11	< 1	< 5	< 1	< 3	1.4	< 1	NA	**3.5**	< 1
	10/11/11	< 1	< 5	< 1	< 3	1.4	< 1	< 5	**5.7**	< 1
	5/21/12	< 1	< 5	< 1	< 3	< 1	< 1	< 5	**1.7**	< 1
	12/3/12	< 1	< 5	< 1	< 3	< 1	< 1	< 5	**2.2**	< 1
MW-4	8/27/03	**24**	< 5	< 0.5	< 1.5	7.2	< 5	< 10	NA	NA
	3/12/07	**2.3**	< 5	< 1	< 3	2.6	< 1	NA	**43**	< 1
	9/18/08	**6,900**	**20,000**	**3,600**	**17,500**	< 250	< 250	NA	< 250	< 250
	11/3/09	< 1	< 5	< 1	< 3	< 1	< 1	NA	**41**	< 1
	5/27/10	< 1	240	< 1	< 3	< 1	< 1	NA	**240**	< 1
	11/4/10	< 1	< 5	< 1	< 3	< 1	< 1	NA	**29**	< 1
	5/11/11	< 1	< 5	< 1	< 3	9.8	< 1	NA	**32**	< 1
	10/11/11	< 1	< 5	< 1	< 3	< 1	< 1	< 1	**11**	< 1
	5/21/12	< 1	< 5	< 1	< 3	< 1	< 1	< 5	**8.8**	< 1
	12/3/12	< 1	< 5	< 1	< 3	< 1	< 1	< 5	**10**	< 1
MW-5	8/27/03	**1,900**	< 250	< 25	< 75	**2,100**	< 250	< 250	NA	NA
	3/12/07	**880**	< 500	< 100	< 300	**710**	< 100	NA	< 100	< 100
	9/18/08	**530**	< 50	24	33	**950**	54	NA	**13**	< 10
	11/3/09	**440**	< 50	< 10	< 30	**1,200**	55	NA	**18**	< 10
	5/27/10	**320**	< 5	1.1	8	**810**	35	NA	**15**	**4.5**
	11/4/10	**6.2**	< 25	< 5	8	**770**	27	NA	**13**	**5.6**
	5/11/11	**8.3**	< 25	< 5	< 15	**850**	27	NA	**14**	< 5
	10/11/11	< 10	< 50	< 10	< 30	**440**	12	< 50	**23**	< 10
	5/21/12	**8.7**	< 25	< 5	< 15	**580**	17	< 25	**17**	< 5
	12/3/12	< 1	< 5	< 1	< 3	**280**	7.9	< 5	**25**	< 1
MW-6	2/26/04	< 1	< 5	< 1	< 2	< 5	< 5	< 5	NA	NA

NOTES: Data provided in ug/l / NA – Not Analyzed / MTBE – Methyl Tert Butyl Ether / IPE – Di-Isopropyl Ether / PCE – Tetrachloroethene TCE – Trichloroethene / NCAC – North Carolina Administrative Code / Data in **BOLD** exceeds NCAC 2L, highlighted data exceeds GCLs

TABLE 2 - SUMMARY OF GROUNDWATER ANALYTICAL DATA (Continued)

Well ID No.	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	IPE	Naphthalene	PCE	TCE
NCAC 2L		1	600	600	500	20	70	6	0.7	3
GCLs		5,000	260,000	84,500	85,500	20,000	70,000	6,000	700	3,000
MW-7	2/26/04	< 1	< 5	< 1	< 2	< 5	< 5	< 5	**400**	1.3
	3/12/07	< 1	< 5	< 1	< 3	< 1	< 1	NA	**340**	1.2
	9/18/08	< 1	< 5	< 1	< 3	< 1	< 1	NA	**220**	**6.6**
	5/27/10	< 1	< 5	< 1	< 3	< 1	< 1	NA	**220**	< 1
	5/11/11	< 2	< 10	< 2	< 6	< 2	< 2	NA	**170**	< 2
	10/11/11	< 5	< 25	< 5	< 15	< 5	< 5	< 5	**190**	< 25
	5/21/12	< 5	< 25	< 5	< 15	< 5	< 5	< 25	**64**	< 5
	12/3/12	< 1	< 5	< 1	< 3	< 1	< 1	< 5	**44**	< 1
MW-8	5/13/04	**8,700**	**27,000**	**9,900**	**47,000**	< 1,000	< 1,000	**4,100**	NA	NA
	3/07 – 5/10	NOT SAMPLED – FREE PRODUCT OBSERVED								
	11/4/10	**4,100**	**17, 000**	**3,100**	**17,900**	< 200	< 200	NA	< 200	< 200
	5/11/11	**2,300**	**10,000**	**1,900**	**15,200**	< 100	< 10	NA	< 100	< 100
	10/11/11	**2,100**	**11,000**	**3,300**	**23,800**	< 100	< 100	**2,100**	< 100	< 500
	5/21/12	**1,400**	**5,800**	**3,100**	**25,500**	< 100	< 100	**2,600**	< 100	< 100
	12/3/12	NOT SAMPLED – FREE PRODUCT OBSERVED								
MW-9	2/26/04	**12,000**	< 2,500	< 500	< 1,000	**4,700**	< 2,500	< 2,500	NA	NA
	3/12/07	**32**	68	50	360	**800**	22	NA	**20**	< 10
	9/18/08	**27**	< 5	< 1	4.9	**430**	34	NA	**21**	**4**
	11/3/09	**320**	< 25	5.4	17	**3,700**	**180**	NA	**13**	< 50
	5/27/10	**2,800**	< 250	< 50	**500**	**4,900**	**330**	NA	< 50	< 50
	11/4/10	**250**	< 120	< 250	< 75	**3,100**	**200**	NA	< 25	< 25
	5/11/11	**1,000**	< 100	< 20	< 60	**3,900**	**330**	NA	< 20	< 20
	11/15/11	**2,000**	< 5	< 1	< 3	**9,600**	67	< 5	**20**	**9.4**
	5/21/12	**120**	< 5	< 5	8.5	**2,200**	**110**	**18**	**6.6**	**5.4**
	12/3/12	**34**	< 100	< 20	< 60	**1,500**	**71**	< 100	< 20	< 20

NOTES: Data provided in ug/l / NA – Not Analyzed / MTBE – Methyl Tert Butyl Ether / IPE – Di-Isopropyl Ether / PCE – Tetrachloroethene
TCE – Trichloroethene / NCAC – North Carolina Administrative Code / Data in **BOLD** exceeds NCAC 2L, highlighted data exceeds GCLs

TABLE 2 - SUMMARY OF GROUNDWATER ANALYTICAL DATA (Continued)

Well ID No.	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	IPE	Naphthalene	PCE	TCE
NCAC 2L		1	600	600	500	20	70	6	0.7	3
GCLs		5,000	260,000	84,500	85,500	20,000	70,000	6,000	700	3,000
MW-10	2/26/04	**12,000**	**24,000**	**3,900**	**21,600**	**2,500**	< 2,500	< 2,500	NA	NA
	3/12/07	**13,000**	**19,000**	**2,200**	**13,000**	**1,000**	< 200	NA	< 200	< 200
	9/18/08	**13,000**	**22,000**	**4,000**	**23,200**	**3,200**	< 2,500	NA	< 2,500	< 2,500
	11/3/09	NOT SAMPLED – FREE PRODUCT OBSERVED								
	5/27/10	**11,000**	**12,000**	**2,000**	**17,500**	**450**	< 200	NA	< 200	< 200
	11/4/10	**7,400**	**8,000**	**1,400**	**11,000**	**650**	< 200	NA	< 200	< 200
	5/11/11	**5,400**	**3,900**	**1,100**	**7,400**	**820**	57	NA	< 50	< 50
	10/11/11	**30**	27	5.7	48	2.5	< 1	< 1	< 1	< 1
	5/12 – 12/12	NOT SAMPLED - DAMAGED								
MW-11	5/13/04	< 0.5	< 5	< 0.5	< 1.5	< 5	< 5	< 5	NA	NA
	11/4/10	< 1	< 5	< 1	< 3	< 1	< 1	NA	< 1	< 1
	5/11/11	**1**	< 5	< 1	< 3	< 1	< 1	NA	< 1	< 1
	10/11/11	< 1	< 5	< 1	< 3	< 1	< 1	< 5	**1.8**	< 1
	5/21/12	< 1	< 5	< 1	< 3	< 1	< 1	< 5	**1.2**	< 1
	12/3/12	< 1	< 5	< 1	< 3	< 1	< 1	< 5	**2.9**	< 1
MW-12	5/13/04	**240**	< 25	< 2.5	< 7.5	**1,800**	**72**	< 25	NA	NA
	3/12/07	< 1	< 5	< 1	< 3	14	8.4	NA	**86**	2.2
	9/18/08	< 10	< 50	< 10	< 30	**470**	32	NA	< 10	< 10
	11/3/09	NOT SAMPLED – NOT LOCATED								
	5/27/10	< 1	< 5	< 1	< 3	**30**	13	NA	< 1	< 1
	11/4/10	< 5	< 25	< 5	< 15	**190**	17	NA	< 5	< 5
	5/11/11	**38**	24	8.5	62	**35**	18	NA	< 1	< 1
	10/11/11	< 1	< 5	< 1	< 3	**260**	24	**8.9**	< 1	< 5
	5/21/12	< 1	< 5	< 1	< 3	**210**	35	< 5	< 1	< 1
	12/3/12	< 1	< 5	< 1	< 3	**760**	**76**	< 5	**1.2**	< 1
MW-13	6/24/4	< 0.5	< 5	< 0.5	< 1.5	< 1	< 1	< 5	NA	NA
	11/4/10	< 1	< 5	<1	< 3	<1	< 1	NA	<1	<1

NOTES: Data provided in ug/l / NA – Not Analyzed / MTBE – Methyl Tert Butyl Ether / IPE – Di-Isopropyl Ether / PCE – Tetrachloroethene
TCE – Trichloroethene / NCAC – North Carolina Administrative Code / Data in **BOLD** exceeds NCAC 2L, highlighted data exceeds GCLs

TABLE 2 - SUMMARY OF GROUNDWATER ANALYTICAL DATA (Continued)

Well ID No.	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	IPE	Naphthalene	PCE	TCE
NCAC 2L		1	600	600	500	20	70	6	0.7	3
GCLs		5,000	260,000	84,500	85,500	20,000	70,000	6,000	700	3,000
MW-13	5/11/11	< 1	< 5	< 1	< 3	< 1	< 1	NA	< 1	< 1
	10/11/11	< 1	< 5	< 1	< 3	< 1	< 1	< 5	< 1	< 1
	5/21/12	< 1	< 5	< 1	< 3	< 1	< 1	< 5	< 1	< 1
	12/3/12	< 1	< 5	< 1	< 3	< 1	< 1	< 5	< 1	< 1
MW-14	6/24/04	**1.2**	< 5	< 0.5	< 1.5	**38**	11	< 5	NA	NA
	3/12/07	< 1	< 5	< 1	< 3	14	8.5	NA	**88**	2.1
	9/18/08	< 1	< 5	< 1	< 3	10	5.8	NA	**24**	< 1
	11/3/09	< 1	< 5	< 1	< 3	11	6	NA	**25**	1.1
	5/27/10	< 1	< 5	< 1	< 3	5.6	3.8	NA	**93**	1
	11/4/10	<1	< 5	< 1	< 3	5.2	3.3	NA	**98**	1.2
	5/11/11	**2.8**	< 5	< 1	4.1	3.6	1.7	NA	**120**	< 1
	10/11/11	<1	< 5	<1	< 3	3.3	1.8	**13**	**63**	<1
	5/21/12	< 1	< 5	< 1	< 3	2.5	1.4	< 5	**71**	< 1
	12/3/12	< 1	< 5	< 1	< 3	4.6	2.1	< 5	**75**	< 1
WS-1	9/18/08	< 1	< 5	< 1	< 3	< 1	< 1	NA	< 1	< 1
	11/3/09	< 1	< 5	< 1	< 3	< 1	< 1	NA	< 1	< 1
	5/27/10	< 1	< 5	< 1	< 3	< 1	< 1	NA	< 1	< 1
	11/4/10	< 1	< 5	< 1	< 3	< 1	< 1	NA	< 1	< 1
	5/11/11	< 1	< 5	< 1	< 3	< 1	< 1	NA	< 1	< 1
	10/11/11	< 1	< 5	< 1	< 3	< 1	< 1	< 5	< 1	< 1
	5/21/12	< 1	< 5	< 1	< 3	< 1	< 1	< 5	< 1	< 1
	12/3/12	NOT SAMPLED - INOPERABLE								

NOTES: Data provided in ug/l / NA – Not Analyzed / MTBE – Methyl Tert Butyl Ether / IPE – Di-Isopropyl Ether / PCE – Tetrachloroethene
TCE – Trichloroethene / NCAC – North Carolina Administrative Code / Data in **BOLD** exceeds NCAC 2L, highlighted data exceeds GCLs

APPENDICES

APPENDIX A – FIGURES

APPENDIX B – LABORATORY ANALYSES & CHAIN OF CUSTODY FORMS

APPENDIX A - FIGURES

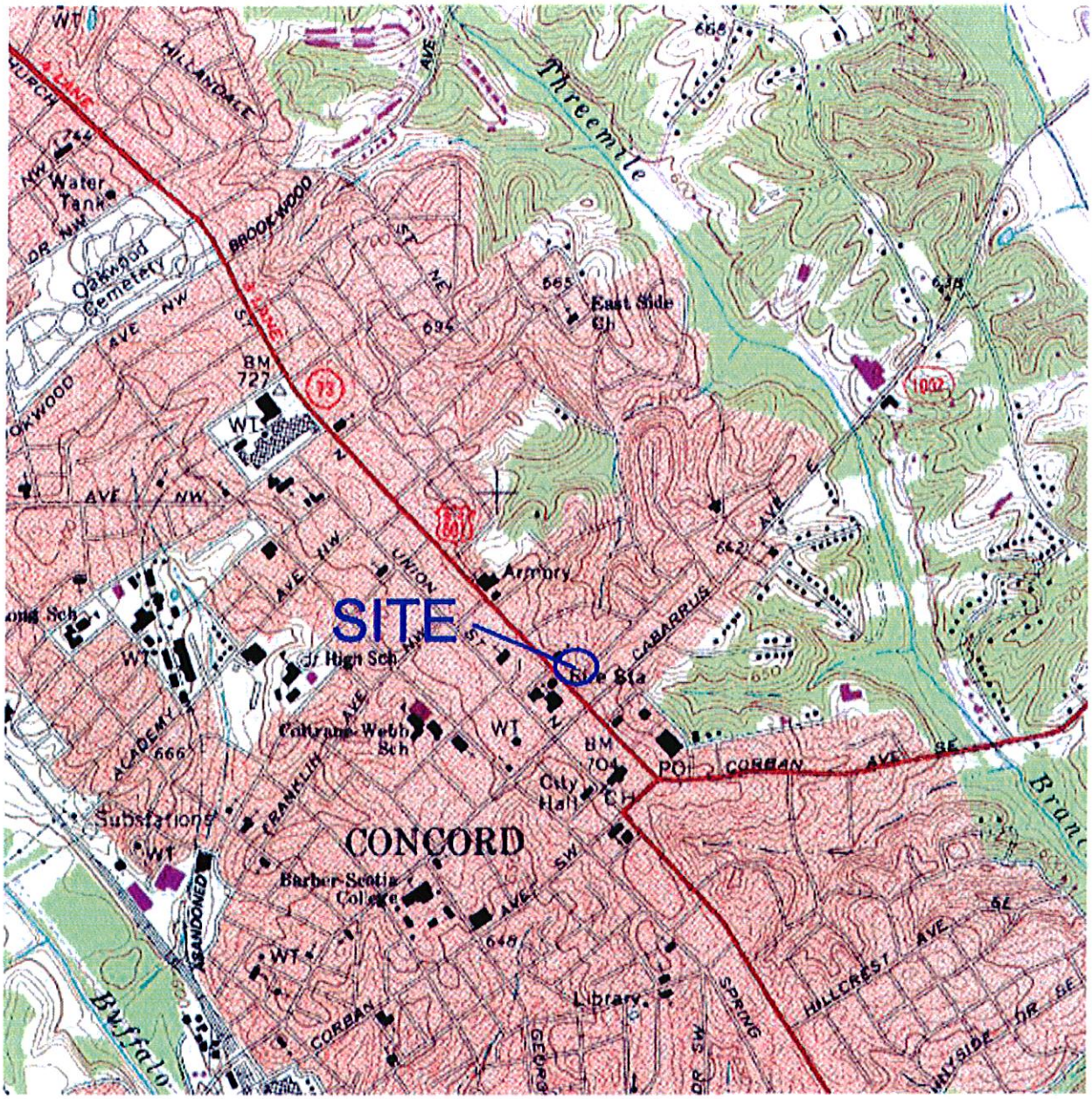
Figure 1 – Site Vicinity

Figure 2 – Site Plan

Figure 3 – Potable Wells Map

Figure 4 – Water Table Contour Map

Figure 5 – Groundwater Constituents Map

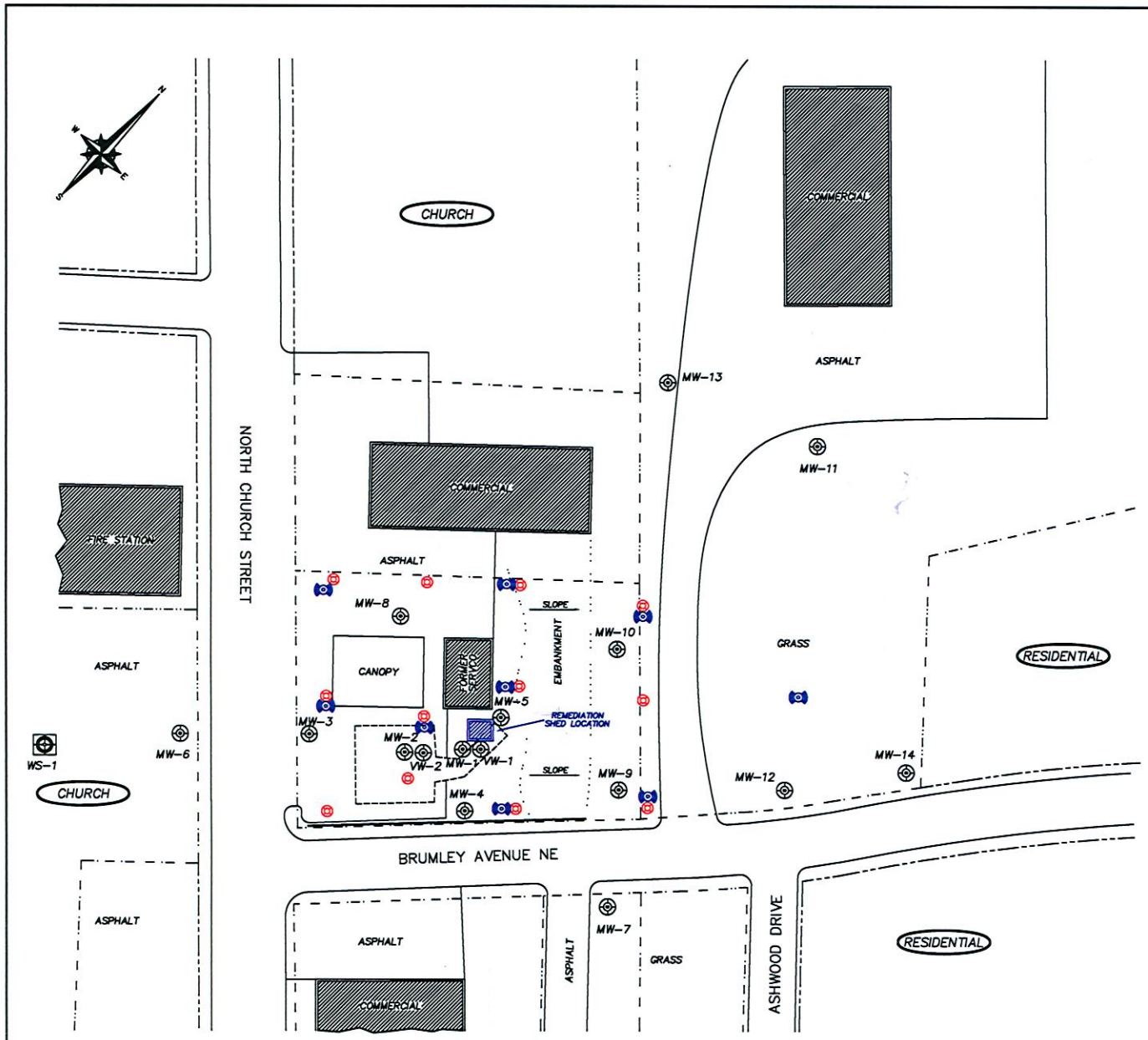


EXCEL CIVIL & ENVIRONMENTAL ASSOCIATES, PLLC
625 HUNTSMAN COURT
GASTONIA, NC 28054
(704) 853-08000

FIGURE 1 – SITE VICINITY MAP

Source: U.S.G.S. 7.5 Minute Topographic Map
Concord, NC, Quadrangle, 1987

⇑
N



NOTES

Map adapted from Aerial Photograph & Cabarrus County Tax Map.

UST - Underground Storage Tank

All USTs removed on 5/28/03

LEGEND

- Property Line (Approximate)
- Right of Way
- Former UST Area
- Monitoring Well Location
- SVE Well Location
- Sparge Well Location

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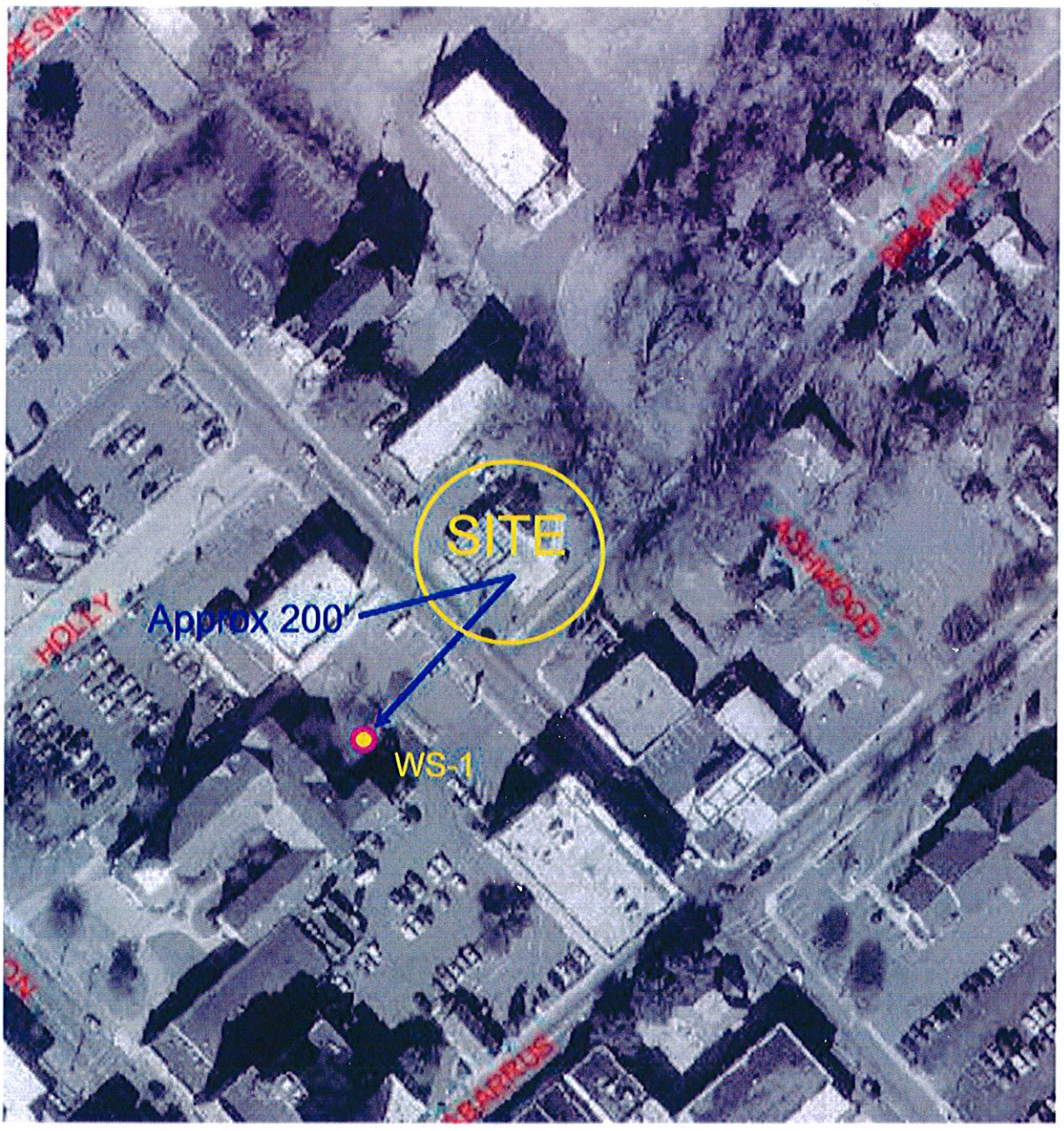
PREPARED FOR :	*SERVICE DISTRIBUTING CO., INC.* *FORMER SERVCO NO. 00311* *24 NORTH CHURCH STREET, CONCORD, NC*
MAP TITLE :	*FIGURE 2 - SITE PLAN* *ACTIVE REMEDIATION MONITORING REPORT*

PROJECT NO. :	DRAWN BY :	SCALE :	DATE :
23056	TWG	1" = 50'	12/3/12



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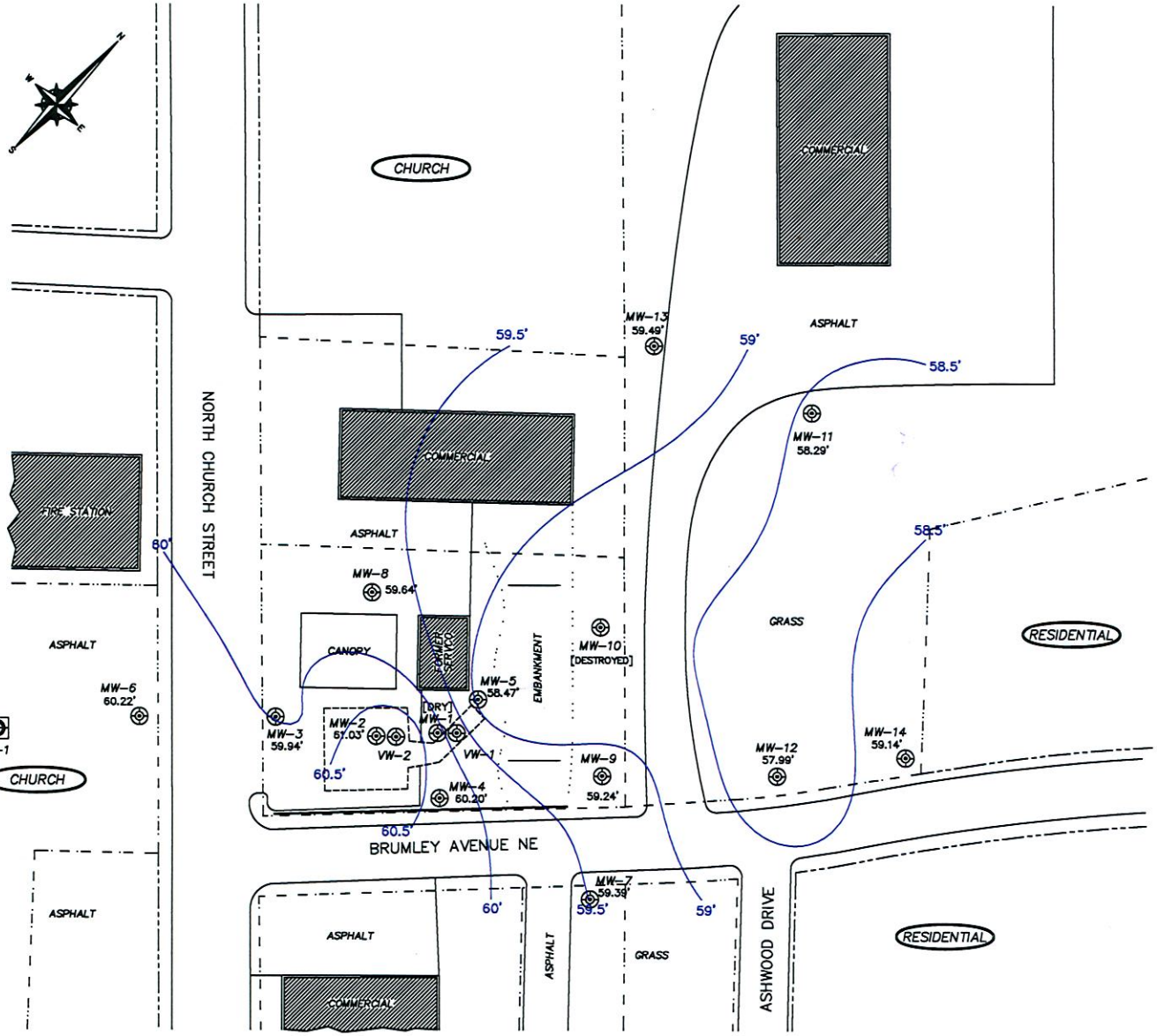
ASSOCIATES, PLLC
625 HUNTSMAN COURT
GASTONIA, NC 28054
(704) 853-08000

FIGURE 3 –
POTABLE WELLS MAP

Source: Cabarrus County GIS

⇑
N



NOTES

Map adapted from Aerial Photograph & Cabarrus County Tax Map.

UST - Underground Storage Tank

All USTs removed on 5/28/03

Data from liquid levels collected in December 2012

Lines are dashed where inferred

LEGEND

- - - - - Property Line (Approximate)

—·—·— Right of Way

-------- Former UST Area

Monitoring Well Location

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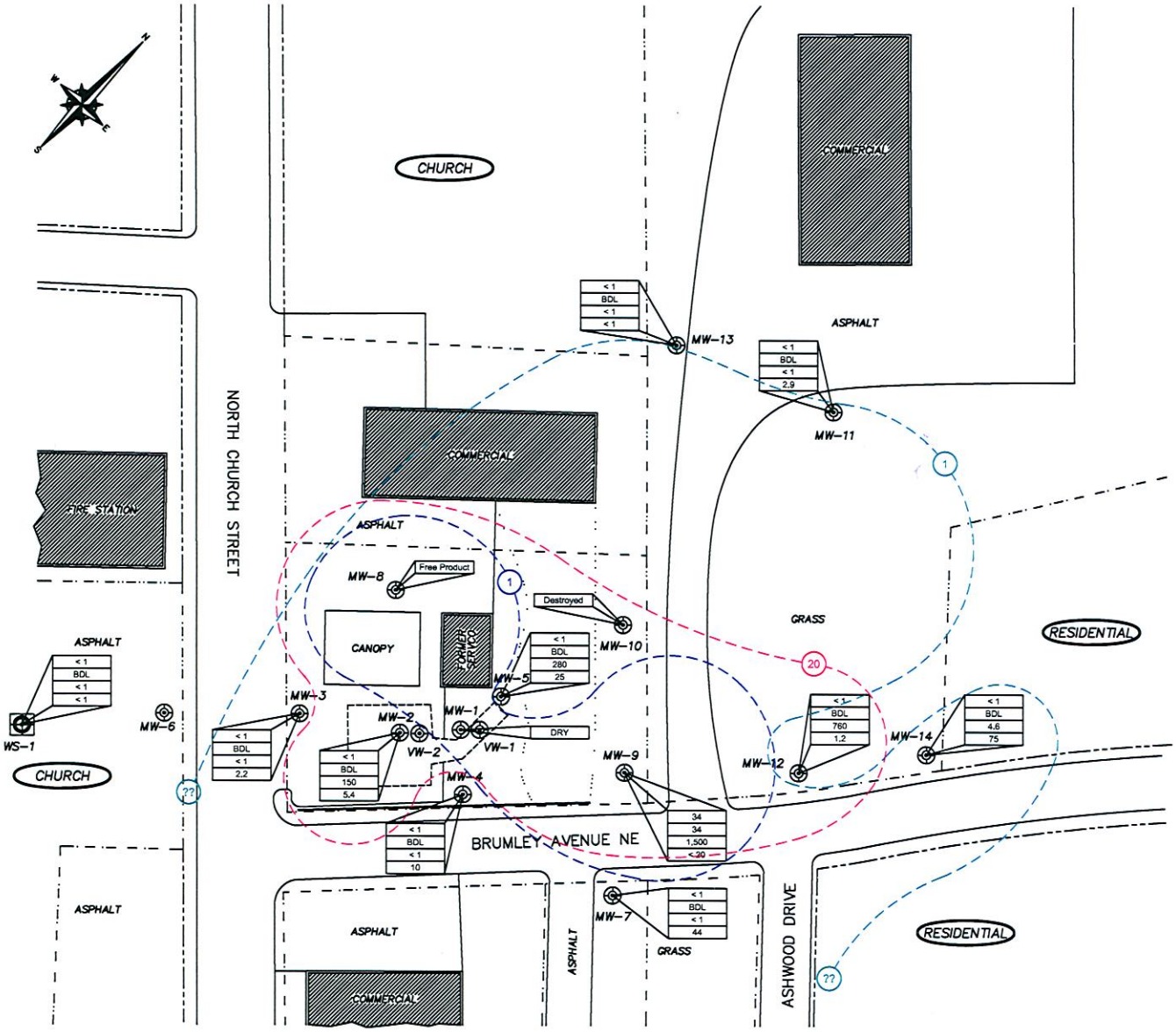
625 HUNTSMAN COURT, GASTONIA, NC — PHONE : (704) 853-0800

PREPARED FOR :	*SERVICE DISTRIBUTING CO., INC.* *FORMER SERVCO NO. 00311* *24 NORTH CHURCH STREET, CONCORD, NC*
MAP TITLE :	*FIGURE 4 - WATER TABLE CONTOUR MAP* *ACTIVE REMEDIATION MONITORING REPORT*

PROJECT NO. :	DRAWN BY :	SCALE :	DATE :
23056	TWG	1" = 50'	12/31/12



NOTES

Map adapted from Aerial Photograph & Cabarrus County Tax Map.

UST - Underground Storage Tank

All USTs removed on 5/28/03

Data from samples collected in December 2012

Data provided in ug/l

BTEX - Summary of Benzene, Toluene, Ethylbenzene & Xylenes

BDL - Below Laboratory Detection Limits

MTBE - Methyl Tert Butyl Ether

PCE - Tetrachloroethene

LEGEND

- Property Line (Approximate)
- Right of Way
- Former UST Area
- Monitoring Well Location
- Benzene / BTEX / MTBE / PCE — Constituents Shown
- Estimated extent of benzene at 2L in groundwater
- Estimated extent of MTBE at 2L in groundwater
- Estimated extent of PCE at 2L in groundwater

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PREPARED FOR :	SERVICE DISTRIBUTING CO., INC. FORMER SERVCO NO. 00311 24 NORTH CHURCH STREET, CONCORD, NC
MAP TITLE :	FIGURE 5 - GROUNDWATER CONSTITUENTS MAP ACTIVE REMEDIATION MONITORING REPORT

PROJECT NO. :	DRAWN BY :	SCALE :	DATE :
23056	TWG	1" = 50'	12/31/12

APPENDIX B - LABORATORY ANALYSES & CHAIN OF CUSTODY FORMS

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Tax I.D. 62-0814289

Est. 1970

Mr. Mike Stanforth
Excel Civil & Environmental Associates
PO Box 6172
Gastonia, NC 28056-6000

Report Summary

Friday December 07, 2012

Report Number: L609019
Samples Received: 12/04/12
Client Project: 23056

Description: Former SERVCO 00311-Concord No. 1

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Jimmy Hunt

Jimmy Hunt, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Stanforth
Excel Civil & Environmental Associa
PO Box 6172
Gastonia, NC 28056-6000

December 07, 2012

ESC Sample # : L609019-01

Site ID : 00311

Project # : 23056

Date Received : December 04, 2012
Description : Former SERVCO 00311-Concord No. 1

Sample ID : MW-2

Collected By : Jon D. McGraw
Collection Date : 12/03/12 10:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	0.0010	mg/l	6200B	12/05/12	1
Bromodichloromethane	BDL	0.0010	mg/l	6200B	12/05/12	1
Bromoform	BDL	0.0010	mg/l	6200B	12/05/12	1
Bromomethane	BDL	0.0050	mg/l	6200B	12/05/12	1
Chlorobenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
Chlorodibromomethane	BDL	0.0010	mg/l	6200B	12/05/12	1
Chloroethane	BDL	0.0050	mg/l	6200B	12/05/12	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	6200B	12/05/12	1
Chloroform	BDL	0.0050	mg/l	6200B	12/05/12	1
Chloromethane	BDL	0.0025	mg/l	6200B	12/05/12	1
1,2-Dibromoethane	BDL	0.0010	mg/l	6200B	12/05/12	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	6200B	12/05/12	1
1,1-Dichloroethane	BDL	0.0010	mg/l	6200B	12/05/12	1
1,2-Dichloroethane	BDL	0.0010	mg/l	6200B	12/05/12	1
1,1-Dichloroethene	BDL	0.0010	mg/l	6200B	12/05/12	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	6200B	12/05/12	1
1,2-Dichloropropane	BDL	0.0010	mg/l	6200B	12/05/12	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	6200B	12/05/12	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	6200B	12/05/12	1
Di-isopropyl ether	0.0053	0.0010	mg/l	6200B	12/05/12	1
Ethylbenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
Methylene Chloride	BDL	0.0050	mg/l	6200B	12/05/12	1
Methyl tert-butyl ether	0.15	0.0010	mg/l	6200B	12/05/12	1
Naphthalene	BDL	0.0050	mg/l	6200B	12/05/12	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	6200B	12/05/12	1
Tetrachloroethene	0.0054	0.0010	mg/l	6200B	12/05/12	1
Toluene	BDL	0.0050	mg/l	6200B	12/05/12	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	6200B	12/05/12	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	6200B	12/05/12	1
Trichloroethene	BDL	0.0010	mg/l	6200B	12/05/12	1
Trichlorofluoromethane	BDL	0.0050	mg/l	6200B	12/05/12	1
Vinyl chloride	BDL	0.0010	mg/l	6200B	12/05/12	1
o-Xylene	BDL	0.0010	mg/l	6200B	12/05/12	1
m&p-Xylenes	BDL	0.0020	mg/l	6200B	12/05/12	1
Surrogate Recovery						
Toluene-d8	109.		% Rec.	6200B	12/05/12	1
Dibromofluoromethane	103.		% Rec.	6200B	12/05/12	1
a,a,a-Trifluorotoluene	107.		% Rec.	6200B	12/05/12	1
4-Bromofluorobenzene	105.		% Rec.	6200B	12/05/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Stanforth
Excel Civil & Environmental Associa
PO Box 6172
Gastonia, NC 28056-6000

December 07, 2012

ESC Sample # : L609019-02

Date Received : December 04, 2012
Description : Former SERVCO 00311-Concord No. 1

Site ID : 00311

Sample ID : MW-3

Project # : 23056

Collected By : Jon D. McGraw
Collection Date : 12/03/12 11:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	0.0010	mg/l	6200B	12/05/12	1
Bromodichloromethane	BDL	0.0010	mg/l	6200B	12/05/12	1
Bromoform	BDL	0.0010	mg/l	6200B	12/05/12	1
Bromomethane	BDL	0.0050	mg/l	6200B	12/05/12	1
Chlorobenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
Chlorodibromomethane	BDL	0.0010	mg/l	6200B	12/05/12	1
Chloroethane	BDL	0.0050	mg/l	6200B	12/05/12	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	6200B	12/05/12	1
Chloroform	BDL	0.0050	mg/l	6200B	12/05/12	1
Chloromethane	BDL	0.0025	mg/l	6200B	12/05/12	1
1,2-Dibromoethane	BDL	0.0010	mg/l	6200B	12/05/12	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	6200B	12/05/12	1
1,1-Dichloroethane	BDL	0.0010	mg/l	6200B	12/05/12	1
1,2-Dichloroethane	BDL	0.0010	mg/l	6200B	12/05/12	1
1,1-Dichloroethene	BDL	0.0010	mg/l	6200B	12/05/12	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	6200B	12/05/12	1
1,2-Dichloropropane	BDL	0.0010	mg/l	6200B	12/05/12	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	6200B	12/05/12	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	6200B	12/05/12	1
Di-isopropyl ether	BDL	0.0010	mg/l	6200B	12/05/12	1
Ethylbenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
Methylene Chloride	BDL	0.0050	mg/l	6200B	12/05/12	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	6200B	12/05/12	1
Naphthalene	BDL	0.0050	mg/l	6200B	12/05/12	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	6200B	12/05/12	1
Tetrachloroethene	0.0022	0.0010	mg/l	6200B	12/05/12	1
Toluene	BDL	0.0050	mg/l	6200B	12/05/12	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	6200B	12/05/12	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	6200B	12/05/12	1
Trichloroethene	BDL	0.0010	mg/l	6200B	12/05/12	1
Trichlorofluoromethane	BDL	0.0050	mg/l	6200B	12/05/12	1
Vinyl chloride	BDL	0.0010	mg/l	6200B	12/05/12	1
o-Xylene	BDL	0.0010	mg/l	6200B	12/05/12	1
m&p-Xylenes	BDL	0.0020	mg/l	6200B	12/05/12	1
Surrogate Recovery						
Toluene-d8	107.		% Rec.	6200B	12/05/12	1
Dibromofluoromethane	104.		% Rec.	6200B	12/05/12	1
a,a,a-Trifluorotoluene	107.		% Rec.	6200B	12/05/12	1
4-Bromofluorobenzene	104.		% Rec.	6200B	12/05/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Mr. Mike Stanforth
Excel Civil & Environmental Associa
PO Box 6172
Gastonia, NC 28056-6000

December 07, 2012

ESC Sample # : L609019-03

Date Received : December 04, 2012
Description : Former SERVCO 00311-Concord No. 1

Site ID : 00311

Sample ID : MW-4

Project # : 23056

Collected By : Jon D. McGraw
Collection Date : 12/03/12 11:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	0.0010	mg/l	6200B	12/05/12	1
Bromodichloromethane	BDL	0.0010	mg/l	6200B	12/05/12	1
Bromoform	BDL	0.0010	mg/l	6200B	12/05/12	1
Bromomethane	BDL	0.0050	mg/l	6200B	12/05/12	1
Chlorobenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
Chlorodibromomethane	BDL	0.0010	mg/l	6200B	12/05/12	1
Chloroethane	BDL	0.0050	mg/l	6200B	12/05/12	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	6200B	12/05/12	1
Chloroform	BDL	0.0050	mg/l	6200B	12/05/12	1
Chloromethane	BDL	0.0025	mg/l	6200B	12/05/12	1
1,2-Dibromoethane	BDL	0.0010	mg/l	6200B	12/05/12	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	6200B	12/05/12	1
1,1-Dichloroethane	BDL	0.0010	mg/l	6200B	12/05/12	1
1,2-Dichloroethane	BDL	0.0010	mg/l	6200B	12/05/12	1
1,1-Dichloroethene	BDL	0.0010	mg/l	6200B	12/05/12	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	6200B	12/05/12	1
1,2-Dichloropropane	BDL	0.0010	mg/l	6200B	12/05/12	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	6200B	12/05/12	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	6200B	12/05/12	1
Di-isopropyl ether	BDL	0.0010	mg/l	6200B	12/05/12	1
Ethylbenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
Methylene Chloride	BDL	0.0050	mg/l	6200B	12/05/12	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	6200B	12/05/12	1
Naphthalene	BDL	0.0050	mg/l	6200B	12/05/12	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	6200B	12/05/12	1
Tetrachloroethene	0.010	0.0010	mg/l	6200B	12/05/12	1
Toluene	BDL	0.0050	mg/l	6200B	12/05/12	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	6200B	12/05/12	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	6200B	12/05/12	1
Trichloroethene	BDL	0.0010	mg/l	6200B	12/05/12	1
Trichlorofluoromethane	BDL	0.0050	mg/l	6200B	12/05/12	1
Vinyl chloride	BDL	0.0010	mg/l	6200B	12/05/12	1
o-Xylene	BDL	0.0010	mg/l	6200B	12/05/12	1
m&p-Xylenes	BDL	0.0020	mg/l	6200B	12/05/12	1
Surrogate Recovery						
Toluene-d8	107.		% Rec.	6200B	12/05/12	1
Dibromofluoromethane	104.		% Rec.	6200B	12/05/12	1
a,a,a-Trifluorotoluene	108.		% Rec.	6200B	12/05/12	1
4-Bromofluorobenzene	102.		% Rec.	6200B	12/05/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mr. Mike Stanforth
Excel Civil & Environmental Associa
PO Box 6172
Gastonia, NC 28056-6000

December 07, 2012

ESC Sample # : L609019-04

Date Received : December 04, 2012
Description : Former SERVCO 00311-Concord No. 1

Site ID : 00311

Sample ID : MW-5

Project # : 23056

Collected By : Jon D. McGraw
Collection Date : 12/03/12 11:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	0.0050	mg/l	6200B	12/05/12	5
Bromodichloromethane	BDL	0.0050	mg/l	6200B	12/05/12	5
Bromoform	BDL	0.0050	mg/l	6200B	12/05/12	5
Bromomethane	BDL	0.025	mg/l	6200B	12/05/12	5
Chlorobenzene	BDL	0.0050	mg/l	6200B	12/05/12	5
Chlorodibromomethane	BDL	0.0050	mg/l	6200B	12/05/12	5
Chloroethane	BDL	0.025	mg/l	6200B	12/05/12	5
2-Chloroethyl vinyl ether	BDL	0.25	mg/l	6200B	12/05/12	5
Chloroform	BDL	0.025	mg/l	6200B	12/05/12	5
Chloromethane	BDL	0.012	mg/l	6200B	12/05/12	5
1,2-Dibromoethane	BDL	0.0050	mg/l	6200B	12/05/12	5
1,2-Dichlorobenzene	BDL	0.0050	mg/l	6200B	12/05/12	5
1,3-Dichlorobenzene	BDL	0.0050	mg/l	6200B	12/05/12	5
1,4-Dichlorobenzene	BDL	0.0050	mg/l	6200B	12/05/12	5
Dichlorodifluoromethane	BDL	0.025	mg/l	6200B	12/05/12	5
1,1-Dichloroethane	BDL	0.0050	mg/l	6200B	12/05/12	5
1,2-Dichloroethane	BDL	0.0050	mg/l	6200B	12/05/12	5
1,1-Dichloroethene	BDL	0.0050	mg/l	6200B	12/05/12	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/l	6200B	12/05/12	5
1,2-Dichloropropane	BDL	0.0050	mg/l	6200B	12/05/12	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/l	6200B	12/05/12	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/l	6200B	12/05/12	5
Di-isopropyl ether	0.0079	0.0050	mg/l	6200B	12/05/12	5
Ethylbenzene	BDL	0.0050	mg/l	6200B	12/05/12	5
Methylene Chloride	BDL	0.025	mg/l	6200B	12/05/12	5
Methyl tert-butyl ether	0.28	0.0050	mg/l	6200B	12/05/12	5
Naphthalene	BDL	0.025	mg/l	6200B	12/05/12	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/l	6200B	12/05/12	5
Tetrachloroethene	0.025	0.0050	mg/l	6200B	12/05/12	5
Toluene	BDL	0.025	mg/l	6200B	12/05/12	5
1,1,1-Trichloroethane	BDL	0.0050	mg/l	6200B	12/05/12	5
1,1,2-Trichloroethane	BDL	0.0050	mg/l	6200B	12/05/12	5
Trichloroethene	BDL	0.0050	mg/l	6200B	12/05/12	5
Trichlorofluoromethane	BDL	0.025	mg/l	6200B	12/05/12	5
Vinyl chloride	BDL	0.0050	mg/l	6200B	12/05/12	5
o-Xylene	BDL	0.0050	mg/l	6200B	12/05/12	5
m&p-Xylenes	BDL	0.010	mg/l	6200B	12/05/12	5
Surrogate Recovery						
Toluene-d8	107.		% Rec.	6200B	12/05/12	5
Dibromofluoromethane	103.		% Rec.	6200B	12/05/12	5
a,a,a-Trifluorotoluene	107.		% Rec.	6200B	12/05/12	5
4-Bromofluorobenzene	102.		% Rec.	6200B	12/05/12	5

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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REPORT OF ANALYSIS

Mr. Mike Stanforth
Excel Civil & Environmental Associa
PO Box 6172
Gastonia, NC 28056-6000

December 07, 2012

ESC Sample # : L609019-05

Date Received : December 04, 2012
Description : Former SERVCO 00311-Concord No. 1

Site ID : 00311

Sample ID : MW-7

Project # : 23056

Collected By : Jon D. McGraw
Collection Date : 12/03/12 13:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	0.0010	mg/l	6200B	12/05/12	1
Bromodichloromethane	BDL	0.0010	mg/l	6200B	12/05/12	1
Bromoform	BDL	0.0010	mg/l	6200B	12/05/12	1
Bromomethane	BDL	0.0050	mg/l	6200B	12/05/12	1
Chlorobenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
Chlorodibromomethane	BDL	0.0010	mg/l	6200B	12/05/12	1
Chloroethane	BDL	0.0050	mg/l	6200B	12/05/12	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	6200B	12/05/12	1
Chloroform	BDL	0.0050	mg/l	6200B	12/05/12	1
Chloromethane	BDL	0.0025	mg/l	6200B	12/05/12	1
1,2-Dibromoethane	BDL	0.0010	mg/l	6200B	12/05/12	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	6200B	12/05/12	1
1,1-Dichloroethane	BDL	0.0010	mg/l	6200B	12/05/12	1
1,2-Dichloroethane	BDL	0.0010	mg/l	6200B	12/05/12	1
1,1-Dichloroethene	BDL	0.0010	mg/l	6200B	12/05/12	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	6200B	12/05/12	1
1,2-Dichloropropane	BDL	0.0010	mg/l	6200B	12/05/12	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	6200B	12/05/12	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	6200B	12/05/12	1
Di-isopropyl ether	BDL	0.0010	mg/l	6200B	12/05/12	1
Ethylbenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
Methylene Chloride	BDL	0.0050	mg/l	6200B	12/05/12	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	6200B	12/05/12	1
Naphthalene	BDL	0.0050	mg/l	6200B	12/05/12	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	6200B	12/05/12	1
Tetrachloroethene	0.044	0.0010	mg/l	6200B	12/05/12	1
Toluene	BDL	0.0050	mg/l	6200B	12/05/12	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	6200B	12/05/12	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	6200B	12/05/12	1
Trichloroethene	BDL	0.0010	mg/l	6200B	12/05/12	1
Trichlorofluoromethane	BDL	0.0050	mg/l	6200B	12/05/12	1
Vinyl chloride	BDL	0.0010	mg/l	6200B	12/05/12	1
o-Xylene	BDL	0.0010	mg/l	6200B	12/05/12	1
m&p-Xylenes	BDL	0.0020	mg/l	6200B	12/05/12	1
Surrogate Recovery						
Toluene-d8	108.		% Rec.	6200B	12/05/12	1
Dibromofluoromethane	104.		% Rec.	6200B	12/05/12	1
a,a,a-Trifluorotoluene	108.		% Rec.	6200B	12/05/12	1
4-Bromofluorobenzene	100.		% Rec.	6200B	12/05/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Mr. Mike Stanforth
Excel Civil & Environmental Associa
PO Box 6172
Gastonia, NC 28056-6000

December 07, 2012

Date Received : December 04, 2012
Description : Former SERVCO 00311-Concord No. 1

ESC Sample # : L609019-06

Sample ID : MW-9

Site ID : 00311

Project # : 23056

Collected By : Jon D. McGraw
Collection Date : 12/03/12 13:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	0.034	0.020	mg/l	6200B	12/05/12	20
Bromodichloromethane	BDL	0.020	mg/l	6200B	12/05/12	20
Bromoform	BDL	0.020	mg/l	6200B	12/05/12	20
Bromomethane	BDL	0.10	mg/l	6200B	12/05/12	20
Chlorobenzene	BDL	0.020	mg/l	6200B	12/05/12	20
Chlorodibromomethane	BDL	0.020	mg/l	6200B	12/05/12	20
Chloroethane	BDL	0.10	mg/l	6200B	12/05/12	20
2-Chloroethyl vinyl ether	BDL	1.0	mg/l	6200B	12/05/12	20
Chloroform	BDL	0.10	mg/l	6200B	12/05/12	20
Chloromethane	BDL	0.050	mg/l	6200B	12/05/12	20
1,2-Dibromoethane	BDL	0.020	mg/l	6200B	12/05/12	20
1,2-Dichlorobenzene	BDL	0.020	mg/l	6200B	12/06/12	20
1,3-Dichlorobenzene	BDL	0.020	mg/l	6200B	12/05/12	20
1,4-Dichlorobenzene	BDL	0.020	mg/l	6200B	12/05/12	20
Dichlorodifluoromethane	BDL	0.10	mg/l	6200B	12/05/12	20
1,1-Dichloroethane	BDL	0.020	mg/l	6200B	12/05/12	20
1,2-Dichloroethane	BDL	0.020	mg/l	6200B	12/05/12	20
1,1-Dichloroethene	BDL	0.020	mg/l	6200B	12/05/12	20
trans-1,2-Dichloroethene	BDL	0.020	mg/l	6200B	12/05/12	20
1,2-Dichloropropane	BDL	0.020	mg/l	6200B	12/05/12	20
cis-1,3-Dichloropropene	BDL	0.020	mg/l	6200B	12/05/12	20
trans-1,3-Dichloropropene	BDL	0.020	mg/l	6200B	12/05/12	20
Di-isopropyl ether	0.071	0.020	mg/l	6200B	12/05/12	20
Ethylbenzene	BDL	0.020	mg/l	6200B	12/05/12	20
Methylene Chloride	BDL	0.10	mg/l	6200B	12/05/12	20
Methyl tert-butyl ether	1.5	0.020	mg/l	6200B	12/05/12	20
Naphthalene	BDL	0.10	mg/l	6200B	12/05/12	20
1,1,2,2-Tetrachloroethane	BDL	0.020	mg/l	6200B	12/06/12	20
Tetrachloroethene	BDL	0.020	mg/l	6200B	12/05/12	20
Toluene	BDL	0.10	mg/l	6200B	12/05/12	20
1,1,1-Trichloroethane	BDL	0.020	mg/l	6200B	12/05/12	20
1,1,2-Trichloroethane	BDL	0.020	mg/l	6200B	12/06/12	20
Trichloroethene	BDL	0.020	mg/l	6200B	12/05/12	20
Trichlorofluoromethane	BDL	0.10	mg/l	6200B	12/05/12	20
Vinyl chloride	BDL	0.020	mg/l	6200B	12/05/12	20
o-Xylene	BDL	0.020	mg/l	6200B	12/05/12	20
m&p-Xylenes	BDL	0.040	mg/l	6200B	12/05/12	20
Surrogate Recovery						
Toluene-d8	107.		% Rec.	6200B	12/05/12	20
Dibromofluoromethane	101.		% Rec.	6200B	12/05/12	20
a,a,a-Trifluorotoluene	107.		% Rec.	6200B	12/05/12	20
4-Bromofluorobenzene	106.		% Rec.	6200B	12/05/12	20

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Mr. Mike Stanforth
Excel Civil & Environmental Associa
PO Box 6172
Gastonia, NC 28056-6000

December 07, 2012

ESC Sample # : L609019-07

Date Received : December 04, 2012
Description : Former SERVCO 00311-Concord No. 1

Site ID : 00311

Sample ID : MW-11

Project # : 23056

Collected By : Jon D. McGraw
Collection Date : 12/03/12 12:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	0.0010	mg/l	6200B	12/05/12	1
Bromodichloromethane	BDL	0.0010	mg/l	6200B	12/05/12	1
Bromoform	BDL	0.0010	mg/l	6200B	12/05/12	1
Bromomethane	BDL	0.0050	mg/l	6200B	12/05/12	1
Chlorobenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
Chlorodibromomethane	BDL	0.0010	mg/l	6200B	12/05/12	1
Chloroethane	BDL	0.0050	mg/l	6200B	12/05/12	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	6200B	12/05/12	1
Chloroform	BDL	0.0050	mg/l	6200B	12/05/12	1
Chloromethane	BDL	0.0025	mg/l	6200B	12/05/12	1
1,2-Dibromoethane	BDL	0.0010	mg/l	6200B	12/05/12	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	6200B	12/06/12	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	6200B	12/05/12	1
1,1-Dichloroethane	BDL	0.0010	mg/l	6200B	12/05/12	1
1,2-Dichloroethane	BDL	0.0010	mg/l	6200B	12/05/12	1
1,1-Dichloroethene	BDL	0.0010	mg/l	6200B	12/05/12	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	6200B	12/05/12	1
1,2-Dichloropropane	BDL	0.0010	mg/l	6200B	12/05/12	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	6200B	12/05/12	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	6200B	12/05/12	1
Di-isopropyl ether	BDL	0.0010	mg/l	6200B	12/05/12	1
Ethylbenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
Methylene Chloride	BDL	0.0050	mg/l	6200B	12/05/12	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	6200B	12/05/12	1
Naphthalene	BDL	0.0050	mg/l	6200B	12/05/12	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	6200B	12/06/12	1
Tetrachloroethene	0.0029	0.0010	mg/l	6200B	12/05/12	1
Toluene	BDL	0.0050	mg/l	6200B	12/05/12	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	6200B	12/05/12	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	6200B	12/06/12	1
Trichloroethene	BDL	0.0010	mg/l	6200B	12/05/12	1
Trichlorofluoromethane	BDL	0.0050	mg/l	6200B	12/05/12	1
Vinyl chloride	BDL	0.0010	mg/l	6200B	12/05/12	1
o-Xylene	BDL	0.0010	mg/l	6200B	12/05/12	1
m&p-Xylenes	BDL	0.0020	mg/l	6200B	12/05/12	1
Surrogate Recovery						
Toluene-d8	107.		% Rec.	6200B	12/05/12	1
Dibromofluoromethane	104.		% Rec.	6200B	12/05/12	1
a,a,a-Trifluorotoluene	107.		% Rec.	6200B	12/05/12	1
4-Bromofluorobenzene	104.		% Rec.	6200B	12/05/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Mr. Mike Stanforth
Excel Civil & Environmental Associa
PO Box 6172
Gastonia, NC 28056-6000

December 07, 2012

Date Received : December 04, 2012
Description : Former SERVCO 00311-Concord No. 1

ESC Sample # : L609019-08

Sample ID : MW-12

Site ID : 00311

Project # : 23056

Collected By : Jon D. McGraw
Collection Date : 12/03/12 12:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	0.0020	mg/l	6200B	12/05/12	2
Bromodichloromethane	BDL	0.0020	mg/l	6200B	12/05/12	2
Bromoform	BDL	0.0020	mg/l	6200B	12/05/12	2
Bromomethane	BDL	0.010	mg/l	6200B	12/05/12	2
Chlorobenzene	BDL	0.0020	mg/l	6200B	12/05/12	2
Chlorodibromomethane	BDL	0.0020	mg/l	6200B	12/05/12	2
Chloroethane	BDL	0.010	mg/l	6200B	12/05/12	2
2-Chloroethyl vinyl ether	BDL	0.10	mg/l	6200B	12/05/12	2
Chloroform	BDL	0.010	mg/l	6200B	12/05/12	2
Chloromethane	BDL	0.0050	mg/l	6200B	12/05/12	2
1,2-Dibromoethane	BDL	0.0020	mg/l	6200B	12/05/12	2
1,2-Dichlorobenzene	BDL	0.020	mg/l	6200B	12/06/12	20
1,3-Dichlorobenzene	BDL	0.0020	mg/l	6200B	12/05/12	2
1,4-Dichlorobenzene	BDL	0.0020	mg/l	6200B	12/05/12	2
Dichlorodifluoromethane	BDL	0.010	mg/l	6200B	12/05/12	2
1,1-Dichloroethane	BDL	0.0020	mg/l	6200B	12/05/12	2
1,2-Dichloroethane	BDL	0.0020	mg/l	6200B	12/05/12	2
1,1-Dichloroethene	BDL	0.0020	mg/l	6200B	12/05/12	2
trans-1,2-Dichloroethene	BDL	0.0020	mg/l	6200B	12/05/12	2
1,2-Dichloropropane	BDL	0.0020	mg/l	6200B	12/05/12	2
cis-1,3-Dichloropropene	BDL	0.0020	mg/l	6200B	12/05/12	2
trans-1,3-Dichloropropene	BDL	0.0020	mg/l	6200B	12/05/12	2
Di-isopropyl ether	0.076	0.0020	mg/l	6200B	12/05/12	2
Ethylbenzene	BDL	0.0020	mg/l	6200B	12/05/12	2
Methylene Chloride	BDL	0.010	mg/l	6200B	12/05/12	2
Methyl tert-butyl ether	0.76	0.020	mg/l	6200B	12/06/12	20
Naphthalene	BDL	0.010	mg/l	6200B	12/05/12	2
1,1,2,2-Tetrachloroethane	BDL	0.020	mg/l	6200B	12/06/12	20
Tetrachloroethene	BDL	0.0020	mg/l	6200B	12/05/12	2
Toluene	BDL	0.010	mg/l	6200B	12/05/12	2
1,1,1-Trichloroethane	BDL	0.0020	mg/l	6200B	12/05/12	2
1,1,2-Trichloroethane	BDL	0.020	mg/l	6200B	12/06/12	20
Trichloroethene	BDL	0.0020	mg/l	6200B	12/05/12	2
Trichlorofluoromethane	BDL	0.010	mg/l	6200B	12/05/12	2
Vinyl chloride	BDL	0.0020	mg/l	6200B	12/05/12	2
o-Xylene	BDL	0.0020	mg/l	6200B	12/05/12	2
m&p-Xylenes	BDL	0.0040	mg/l	6200B	12/05/12	2
Surrogate Recovery						
Toluene-d8	107.		% Rec.	6200B	12/05/12	2
Dibromofluoromethane	101.		% Rec.	6200B	12/05/12	2
a,a,a-Trifluorotoluene	108.		% Rec.	6200B	12/05/12	2
4-Bromofluorobenzene	104.		% Rec.	6200B	12/05/12	2

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

December 07, 2012

Mr. Mike Stanforth
Excel Civil & Environmental Associa
PO Box 6172
Gastonia, NC 28056-6000

ESC Sample # : L609019-09

Date Received : December 04, 2012
Description : Former SERVCO 00311-Concord No. 1

Site ID : 00311

Sample ID : MW-13

Project # : 23056

Collected By : Jon D. McGraw
Collection Date : 12/03/12 12:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	0.0010	mg/l	6200B	12/05/12	1
Bromodichloromethane	BDL	0.0010	mg/l	6200B	12/05/12	1
Bromoform	BDL	0.0010	mg/l	6200B	12/05/12	1
Bromomethane	BDL	0.0050	mg/l	6200B	12/05/12	1
Chlorobenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
Chlorodibromomethane	BDL	0.0010	mg/l	6200B	12/05/12	1
Chloroethane	BDL	0.0050	mg/l	6200B	12/05/12	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	6200B	12/05/12	1
Chloroform	BDL	0.0050	mg/l	6200B	12/05/12	1
Chloromethane	BDL	0.0025	mg/l	6200B	12/05/12	1
1,2-Dibromoethane	BDL	0.0010	mg/l	6200B	12/05/12	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	6200B	12/06/12	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	6200B	12/05/12	1
1,1-Dichloroethane	BDL	0.0010	mg/l	6200B	12/05/12	1
1,2-Dichloroethane	BDL	0.0010	mg/l	6200B	12/05/12	1
1,1-Dichloroethene	BDL	0.0010	mg/l	6200B	12/05/12	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	6200B	12/05/12	1
1,2-Dichloropropane	BDL	0.0010	mg/l	6200B	12/05/12	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	6200B	12/05/12	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	6200B	12/05/12	1
Di-isopropyl ether	BDL	0.0010	mg/l	6200B	12/05/12	1
Ethylbenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
Methylene Chloride	BDL	0.0050	mg/l	6200B	12/05/12	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	6200B	12/05/12	1
Naphthalene	BDL	0.0050	mg/l	6200B	12/05/12	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	6200B	12/06/12	1
Tetrachloroethene	BDL	0.0010	mg/l	6200B	12/05/12	1
Toluene	BDL	0.0050	mg/l	6200B	12/05/12	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	6200B	12/05/12	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	6200B	12/06/12	1
Trichloroethene	BDL	0.0010	mg/l	6200B	12/05/12	1
Trichlorofluoromethane	BDL	0.0050	mg/l	6200B	12/05/12	1
Vinyl chloride	BDL	0.0010	mg/l	6200B	12/05/12	1
o-Xylene	BDL	0.0010	mg/l	6200B	12/05/12	1
m&p-Xylenes	BDL	0.0020	mg/l	6200B	12/05/12	1
Surrogate Recovery						
Toluene-d8	106.		% Rec.	6200B	12/05/12	1
Dibromofluoromethane	103.		% Rec.	6200B	12/05/12	1
a,a,a-Trifluorotoluene	107.		% Rec.	6200B	12/05/12	1
4-Bromofluorobenzene	103.		% Rec.	6200B	12/05/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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REPORT OF ANALYSIS

Mr. Mike Stanforth
Excel Civil & Environmental Associa
PO Box 6172
Gastonia, NC 28056-6000

December 07, 2012

ESC Sample # : L609019-10

Site ID : 00311

Project # : 23056

Date Received : December 04, 2012
Description : Former SERVCO 00311-Concord No. 1

Sample ID : MW-14

Collected By : Jon D. McGraw
Collection Date : 12/03/12 11:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	0.0010	mg/l	6200B	12/05/12	1
Bromodichloromethane	BDL	0.0010	mg/l	6200B	12/05/12	1
Bromoform	BDL	0.0010	mg/l	6200B	12/05/12	1
Bromomethane	BDL	0.0050	mg/l	6200B	12/05/12	1
Chlorobenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
Chlorodibromomethane	BDL	0.0010	mg/l	6200B	12/05/12	1
Chloroethane	BDL	0.0050	mg/l	6200B	12/05/12	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	6200B	12/05/12	1
Chloroform	BDL	0.0050	mg/l	6200B	12/05/12	1
Chloromethane	BDL	0.0025	mg/l	6200B	12/05/12	1
1,2-Dibromoethane	BDL	0.0010	mg/l	6200B	12/05/12	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	6200B	12/06/12	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	6200B	12/05/12	1
1,1-Dichloroethane	BDL	0.0010	mg/l	6200B	12/05/12	1
1,2-Dichloroethane	BDL	0.0010	mg/l	6200B	12/05/12	1
1,1-Dichloroethene	BDL	0.0010	mg/l	6200B	12/05/12	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	6200B	12/05/12	1
1,2-Dichloropropane	BDL	0.0010	mg/l	6200B	12/05/12	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	6200B	12/05/12	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	6200B	12/05/12	1
Di-isopropyl ether	0.0021	0.0010	mg/l	6200B	12/05/12	1
Ethylbenzene	BDL	0.0010	mg/l	6200B	12/05/12	1
Methylene Chloride	BDL	0.0050	mg/l	6200B	12/05/12	1
Methyl tert-butyl ether	0.0046	0.0010	mg/l	6200B	12/05/12	1
Naphthalene	BDL	0.0050	mg/l	6200B	12/05/12	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	6200B	12/06/12	1
Tetrachloroethene	0.075	0.0010	mg/l	6200B	12/05/12	1
Toluene	BDL	0.0050	mg/l	6200B	12/05/12	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	6200B	12/05/12	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	6200B	12/06/12	1
Trichloroethene	BDL	0.0010	mg/l	6200B	12/05/12	1
Trichlorofluoromethane	BDL	0.0050	mg/l	6200B	12/05/12	1
Vinyl chloride	BDL	0.0010	mg/l	6200B	12/05/12	1
o-Xylene	BDL	0.0010	mg/l	6200B	12/05/12	1
m&p-Xylenes	BDL	0.0020	mg/l	6200B	12/05/12	1
Surrogate Recovery						
Toluene-d8	107.		% Rec.	6200B	12/05/12	1
Dibromofluoromethane	104.		% Rec.	6200B	12/05/12	1
a,a,a-Trifluorotoluene	106.		% Rec.	6200B	12/05/12	1
4-Bromofluorobenzene	102.		% Rec.	6200B	12/05/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Excel Civil & Environmental Associates
Mr. Mike Stanforth
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Gastonia, NC 28056-6000

Quality Assurance Report
Level II

L609019

December 07, 2012

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1,1,1-Trichloroethane	< .001	mg/l			WG626213	12/05/12 01:31
1,1-Dichloroethane	< .001	mg/l			WG626213	12/05/12 01:31
1,1-Dichloroethene	< .001	mg/l			WG626213	12/05/12 01:31
1,2-Dibromoethane	< .001	mg/l			WG626213	12/05/12 01:31
1,2-Dichloroethane	< .001	mg/l			WG626213	12/05/12 01:31
1,2-Dichloropropane	< .001	mg/l			WG626213	12/05/12 01:31
1,3-Dichlorobenzene	< .001	mg/l			WG626213	12/05/12 01:31
1,4-Dichlorobenzene	< .001	mg/l			WG626213	12/05/12 01:31
2-Chloroethyl vinyl ether	< .05	mg/l			WG626213	12/05/12 01:31
Benzene	< .001	mg/l			WG626213	12/05/12 01:31
Bromodichloromethane	< .001	mg/l			WG626213	12/05/12 01:31
Bromoform	< .001	mg/l			WG626213	12/05/12 01:31
Bromomethane	< .005	mg/l			WG626213	12/05/12 01:31
Chlorobenzene	< .001	mg/l			WG626213	12/05/12 01:31
Chlorodibromomethane	< .001	mg/l			WG626213	12/05/12 01:31
Chloroethane	< .005	mg/l			WG626213	12/05/12 01:31
Chloroform	< .005	mg/l			WG626213	12/05/12 01:31
Chloromethane	< .0025	mg/l			WG626213	12/05/12 01:31
cis-1,3-Dichloropropene	< .001	mg/l			WG626213	12/05/12 01:31
Di-isopropyl ether	< .001	mg/l			WG626213	12/05/12 01:31
Dichlorodifluoromethane	< .005	mg/l			WG626213	12/05/12 01:31
Ethylbenzene	< .001	mg/l			WG626213	12/05/12 01:31
m&p-Xylenes	< .002	mg/l			WG626213	12/05/12 01:31
Methyl tert-butyl ether	< .001	mg/l			WG626213	12/05/12 01:31
Methylene Chloride	< .005	mg/l			WG626213	12/05/12 01:31
Naphthalene	< .005	mg/l			WG626213	12/05/12 01:31
o-Xylene	< .001	mg/l			WG626213	12/05/12 01:31
Tetrachloroethene	< .001	mg/l			WG626213	12/05/12 01:31
Toluene	< .005	mg/l			WG626213	12/05/12 01:31
trans-1,2-Dichloroethene	< .001	mg/l			WG626213	12/05/12 01:31
trans-1,3-Dichloropropene	< .001	mg/l			WG626213	12/05/12 01:31
Trichloroethene	< .001	mg/l			WG626213	12/05/12 01:31
Trichlorofluoromethane	< .005	mg/l			WG626213	12/05/12 01:31
Vinyl chloride	< .001	mg/l			WG626213	12/05/12 01:31
4-Bromofluorobenzene		% Rec.	104.4	82-120	WG626213	12/05/12 01:31
Dibromofluoromethane		% Rec.	103.3	82-126	WG626213	12/05/12 01:31
Toluene-d8		% Rec.	106.1	92-112	WG626213	12/05/12 01:31
a,a,a-Trifluorotoluene		% Rec.	105.0	90-116	WG626213	12/05/12 01:31
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG626337	12/05/12 10:57
1,1,2-Trichloroethane	< .001	mg/l			WG626337	12/05/12 10:57
1,2-Dichlorobenzene	< .001	mg/l			WG626337	12/05/12 10:57
4-Bromofluorobenzene		% Rec.	98.96	82-120	WG626337	12/05/12 10:57
Dibromofluoromethane		% Rec.	99.57	82-126	WG626337	12/05/12 10:57
Toluene-d8		% Rec.	95.90	92-112	WG626337	12/05/12 10:57
a,a,a-Trifluorotoluene		% Rec.	99.41	90-116	WG626337	12/05/12 10:57
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG626448	12/06/12 14:11
1,1,2-Trichloroethane	< .001	mg/l			WG626448	12/06/12 14:11
1,2-Dichlorobenzene	< .001	mg/l			WG626448	12/06/12 14:11
Methyl tert-butyl ether	< .001	mg/l			WG626448	12/06/12 14:11
4-Bromofluorobenzene		% Rec.	104.7	82-120	WG626448	12/06/12 14:11
Dibromofluoromethane		% Rec.	97.98	82-126	WG626448	12/06/12 14:11
Toluene-d8		% Rec.	105.9	92-112	WG626448	12/06/12 14:11
a,a,a-Trifluorotoluene		% Rec.	108.7	90-116	WG626448	12/06/12 14:11

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Excel Civil & Environmental Associates
Mr. Mike Stanforth
PO Box 6172

Gastonia, NC 28056-6000

Quality Assurance Report
Level II

L609019

December 07, 2012

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
1,1,1-Trichloroethane	mg/l	.025	0.0235	94.2	71-126	WG626213
1,1-Dichloroethane	mg/l	.025	0.0233	93.3	73-123	WG626213
1,1-Dichloroethene	mg/l	.025	0.0256	102.	54-134	WG626213
1,2-Dibromoethane	mg/l	.025	0.0198	79.2	78-124	WG626213
1,2-Dichloroethane	mg/l	.025	0.0208	83.3	69-128	WG626213
1,2-Dichloropropane	mg/l	.025	0.0224	89.6	77-121	WG626213
1,3-Dichlorobenzene	mg/l	.025	0.0208	83.2	77-127	WG626213
1,4-Dichlorobenzene	mg/l	.025	0.0205	81.9	79-117	WG626213
2-Chloroethyl vinyl ether	mg/l	.125	0.104	83.2	26-172	WG626213
Benzene	mg/l	.025	0.0223	89.0	72-119	WG626213
Bromodichloromethane	mg/l	.025	0.0217	86.9	75-127	WG626213
Bromoform	mg/l	.025	0.0205	82.2	61-136	WG626213
Bromomethane	mg/l	.025	0.0250	100.	42-172	WG626213
Chlorobenzene	mg/l	.025	0.0208	83.0	78-123	WG626213
Chlorodibromomethane	mg/l	.025	0.0200	80.1	73-128	WG626213
Chloroethane	mg/l	.025	0.0233	93.3	52-164	WG626213
Chloroform	mg/l	.025	0.0225	89.9	76-122	WG626213
Chloromethane	mg/l	.025	0.0205	82.2	50-141	WG626213
cis-1,3-Dichloropropene	mg/l	.025	0.0219	87.5	74-124	WG626213
Di-isopropyl ether	mg/l	.025	0.0237	95.0	66-129	WG626213
Dichlorodifluoromethane	mg/l	.025	0.0205	81.8	33-173	WG626213
Ethylbenzene	mg/l	.025	0.0213	85.2	77-124	WG626213
m&p-Xylenes	mg/l	.05	0.0430	85.9	76-123	WG626213
Methyl tert-butyl ether	mg/l	.025	0.0223	89.4	67-127	WG626213
Methylene Chloride	mg/l	.025	0.0218	87.3	67-122	WG626213
Naphthalene	mg/l	.025	0.0198	79.3	70-134	WG626213
o-Xylene	mg/l	.025	0.0216	86.4	77-125	WG626213
Tetrachloroethene	mg/l	.025	0.0208	83.2	69-131	WG626213
Toluene	mg/l	.025	0.0216	86.3	75-114	WG626213
trans-1,2-Dichloroethene	mg/l	.025	0.0228	91.3	63-127	WG626213
trans-1,3-Dichloropropene	mg/l	.025	0.0217	86.9	69-124	WG626213
Trichloroethene	mg/l	.025	0.0220	87.9	69-131	WG626213
Trichlorofluoromethane	mg/l	.025	0.0243	97.1	53-161	WG626213
Vinyl chloride	mg/l	.025	0.0222	88.9	55-142	WG626213
4-Bromofluorobenzene				102.4	82-120	WG626213
Dibromofluoromethane				103.4	82-126	WG626213
Toluene-d8				106.4	92-112	WG626213
a,a,a-Trifluorotoluene				105.3	90-116	WG626213
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0255	102.	78-130	WG626337
1,1,2-Trichloroethane	mg/l	.025	0.0241	96.2	81-121	WG626337
1,2-Dichlorobenzene	mg/l	.025	0.0239	95.7	82-121	WG626337
4-Bromofluorobenzene				95.88	82-120	WG626337
Dibromofluoromethane				95.52	82-126	WG626337
Toluene-d8				97.15	92-112	WG626337
a,a,a-Trifluorotoluene				101.8	90-116	WG626337
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0218	87.0	78-130	WG626448
1,1,2-Trichloroethane	mg/l	.025	0.0227	91.0	81-121	WG626448
1,2-Dichlorobenzene	mg/l	.025	0.0235	93.9	82-121	WG626448
Methyl tert-butyl ether	mg/l	.025	0.0259	103.	67-127	WG626448
4-Bromofluorobenzene				102.2	82-120	WG626448
Dibromofluoromethane				100.8	82-126	WG626448
Toluene-d8				105.5	92-112	WG626448
a,a,a-Trifluorotoluene				106.2	90-116	WG626448

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Mr. Mike Stanforth
PO Box 6172

Gastonia, NC 28056-6000

Quality Assurance Report
Level II

L609019

December 07, 2012

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1-Trichloroethane	mg/l	0.0242	0.0235	97.0	71-126	2.85	20	WG626213
1,1-Dichloroethane	mg/l	0.0245	0.0233	98.0	73-123	4.74	20	WG626213
1,1-Dichloroethene	mg/l	0.0282	0.0256	113.	54-134	9.68	20	WG626213
1,2-Dibromoethane	mg/l	0.0214	0.0198	85.0	78-124	7.60	20	WG626213
1,2-Dichloroethane	mg/l	0.0220	0.0208	88.0	69-128	5.36	20	WG626213
1,2-Dichloropropane	mg/l	0.0244	0.0224	98.0	77-121	8.55	20	WG626213
1,3-Dichlorobenzene	mg/l	0.0222	0.0208	89.0	77-127	6.63	20	WG626213
1,4-Dichlorobenzene	mg/l	0.0222	0.0205	89.0	79-117	8.12	20	WG626213
2-Chloroethyl vinyl ether	mg/l	0.113	0.104	90.0	26-172	8.06	22	WG626213
Benzene	mg/l	0.0238	0.0223	95.0	72-119	6.58	20	WG626213
Bromodichloromethane	mg/l	0.0238	0.0217	95.0	75-127	9.09	20	WG626213
Bromoform	mg/l	0.0216	0.0205	86.0	61-136	4.85	20	WG626213
Bromomethane	mg/l	0.0263	0.0250	105.	42-172	5.11	20	WG626213
Chlorobenzene	mg/l	0.0222	0.0208	89.0	78-123	6.86	20	WG626213
Chlorodibromomethane	mg/l	0.0216	0.0200	86.0	73-128	7.79	20	WG626213
Chloroethane	mg/l	0.0239	0.0233	96.0	52-164	2.32	20	WG626213
Chloroform	mg/l	0.0235	0.0225	94.0	76-122	4.60	20	WG626213
Chloromethane	mg/l	0.0207	0.0205	83.0	50-141	0.730	20	WG626213
cis-1,3-Dichloropropene	mg/l	0.0238	0.0219	95.0	74-124	8.37	20	WG626213
Di-isopropyl ether	mg/l	0.0252	0.0237	101.	66-129	5.96	20	WG626213
Dichlorodifluoromethane	mg/l	0.0211	0.0205	84.0	33-173	3.15	20	WG626213
Ethylbenzene	mg/l	0.0233	0.0213	93.0	77-124	8.82	20	WG626213
m&p-Xylenes	mg/l	0.0459	0.0430	92.0	76-123	6.67	20	WG626213
Methyl tert-butyl ether	mg/l	0.0237	0.0223	95.0	67-127	6.04	20	WG626213
Methylene Chloride	mg/l	0.0231	0.0218	92.0	67-122	5.61	20	WG626213
Naphthalene	mg/l	0.0214	0.0198	86.0	70-134	7.62	20	WG626213
o-Xylene	mg/l	0.0230	0.0216	92.0	77-125	6.12	20	WG626213
Tetrachloroethene	mg/l	0.0219	0.0208	88.0	69-131	5.09	20	WG626213
Toluene	mg/l	0.0230	0.0216	92.0	75-114	6.24	20	WG626213
trans-1,2-Dichloroethene	mg/l	0.0240	0.0228	96.0	63-127	5.22	20	WG626213
trans-1,3-Dichloropropene	mg/l	0.0230	0.0217	92.0	69-124	5.86	20	WG626213
Trichloroethene	mg/l	0.0236	0.0220	94.0	69-131	7.30	20	WG626213
Trichlorofluoromethane	mg/l	0.0255	0.0243	102.	53-161	4.77	20	WG626213
Vinyl chloride	mg/l	0.0232	0.0222	93.0	55-142	4.14	20	WG626213
4-Bromofluorobenzene				101.0	82-120			WG626213
Dibromofluoromethane				100.9	82-126			WG626213
Toluene-d8				105.6	92-112			WG626213
a,a,a-Trifluorotoluene				105.0	90-116			WG626213
1,1,2,2-Tetrachloroethane	mg/l	0.0257	0.0255	103.	78-130	1.02	20	WG626337
1,1,2-Trichloroethane	mg/l	0.0243	0.0241	97.0	81-121	0.870	20	WG626337
1,2-Dichlorobenzene	mg/l	0.0237	0.0239	95.0	82-121	0.780	20	WG626337
4-Bromofluorobenzene				96.66	82-120			WG626337
Dibromofluoromethane				99.98	82-126			WG626337
Toluene-d8				96.39	92-112			WG626337
a,a,a-Trifluorotoluene				100.3	90-116			WG626337
1,1,2,2-Tetrachloroethane	mg/l	0.0233	0.0218	93.0	78-130	6.99	20	WG626448
1,1,2-Trichloroethane	mg/l	0.0235	0.0227	94.0	81-121	3.09	20	WG626448
1,2-Dichlorobenzene	mg/l	0.0233	0.0235	93.0	82-121	0.530	20	WG626448
Methyl tert-butyl ether	mg/l	0.0265	0.0259	106.	67-127	2.50	20	WG626448
4-Bromofluorobenzene				104.6	82-120			WG626448
Dibromofluoromethane				99.92	82-126			WG626448
Toluene-d8				105.8	92-112			WG626448
a,a,a-Trifluorotoluene				107.5	90-116			WG626448

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Est. 1970

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Mr. Mike Stanforth
PO Box 6172

Gastonia, NC 28056-6000

Quality Assurance Report
Level II

L609019

December 07, 2012

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1-Trichloroethane	mg/l	0.0238	0	.025	95.1	58-137	L609018-03	WG626213
1,1-Dichloroethane	mg/l	0.0232	0	.025	92.9	58-133	L609018-03	WG626213
1,1-Dichloroethene	mg/l	0.0254	0	.025	102.	32-152	L609018-03	WG626213
1,2-Dibromoethane	mg/l	0.0216	0	.025	86.4	71-129	L609018-03	WG626213
1,2-Dichloroethane	mg/l	0.0212	0	.025	85.0	59-135	L609018-03	WG626213
1,2-Dichloropropane	mg/l	0.0231	0	.025	92.4	68-126	L609018-03	WG626213
1,3-Dichlorobenzene	mg/l	0.0211	0	.025	84.5	69-131	L609018-03	WG626213
1,4-Dichlorobenzene	mg/l	0.0209	0	.025	83.6	70-123	L609018-03	WG626213
2-Chloroethyl vinyl ether	mg/l	0.00836	0	.125	6.68*	10-161	L609018-03	WG626213
Benzene	mg/l	0.0227	0	.025	90.6	51-134	L609018-03	WG626213
Bromodichloromethane	mg/l	0.0223	0	.025	89.2	67-132	L609018-03	WG626213
Bromoform	mg/l	0.0217	0	.025	87.0	59-137	L609018-03	WG626213
Bromomethane	mg/l	0.0253	0	.025	101.	23-177	L609018-03	WG626213
Chlorobenzene	mg/l	0.0216	0	.025	86.2	69-126	L609018-03	WG626213
Chlorodibromomethane	mg/l	0.0210	0	.025	83.9	68-130	L609018-03	WG626213
Chloroethane	mg/l	0.0231	0	.025	92.5	32-177	L609018-03	WG626213
Chloroform	mg/l	0.0225	0	.025	90.2	64-130	L609018-03	WG626213
Chloromethane	mg/l	0.0202	0	.025	80.9	27-155	L609018-03	WG626213
cis-1,3-Dichloropropene	mg/l	0.0224	0	.025	89.6	63-127	L609018-03	WG626213
Di-isopropyl ether	mg/l	0.0240	0	.025	96.2	58-133	L609018-03	WG626213
Dichlorodifluoromethane	mg/l	0.0218	0	.025	87.2	16-188	L609018-03	WG626213
Ethylbenzene	mg/l	0.0226	0	.025	90.3	64-135	L609018-03	WG626213
m&p-Xylenes	mg/l	0.0443	0	.05	88.6	62-135	L609018-03	WG626213
Methyl tert-butyl ether	mg/l	0.0230	0	.025	92.0	55-136	L609018-03	WG626213
Methylene Chloride	mg/l	0.0219	0	.025	87.4	52-130	L609018-03	WG626213
Naphthalene	mg/l	0.0205	0	.025	82.1	65-140	L609018-03	WG626213
o-Xylene	mg/l	0.0224	0	.025	89.5	63-135	L609018-03	WG626213
Tetrachloroethene	mg/l	0.0218	0	.025	87.1	56-139	L609018-03	WG626213
Toluene	mg/l	0.0219	0	.025	87.5	61-126	L609018-03	WG626213
trans-1,2-Dichloroethene	mg/l	0.0233	0	.025	93.1	45-137	L609018-03	WG626213
trans-1,3-Dichloropropene	mg/l	0.0225	0	.025	89.9	59-130	L609018-03	WG626213
Trichloroethene	mg/l	0.0224	0	.025	89.5	40-155	L609018-03	WG626213
Trichlorofluoromethane	mg/l	0.0256	0	.025	102.	35-177	L609018-03	WG626213
Vinyl chloride	mg/l	0.0228	0	.025	91.1	32-159	L609018-03	WG626213
4-Bromofluorobenzene					103.8	82-120		WG626213
Dibromofluoromethane					100.6	82-126		WG626213
Toluene-d8					106.4	92-112		WG626213
a,a,a-Trifluorotoluene					105.0	90-116		WG626213
1,1,2,2-Tetrachloroethane	mg/l	0.0238	0	.025	95.3	64-149	L608862-01	WG626337
1,1,2-Trichloroethane	mg/l	0.0247	0	.025	98.8	73-128	L608862-01	WG626337
1,2-Dichlorobenzene	mg/l	0.0227	0	.025	90.8	75-125	L608862-01	WG626337
4-Bromofluorobenzene					98.84	82-120		WG626337
Dibromofluoromethane					94.02	82-126		WG626337
Toluene-d8					96.83	92-112		WG626337
a,a,a-Trifluorotoluene					97.00	90-116		WG626337
1,1,2,2-Tetrachloroethane	mg/l	0.0228	0	.025	91.4	64-149	L609224-11	WG626448
1,1,2-Trichloroethane	mg/l	0.0230	0	.025	92.0	73-128	L609224-11	WG626448
1,2-Dichlorobenzene	mg/l	0.0232	0	.025	92.9	75-125	L609224-11	WG626448
Methyl tert-butyl ether	mg/l	0.162	0.140	.025	87.7	55-136	L609224-11	WG626448
4-Bromofluorobenzene					103.6	82-120		WG626448
Dibromofluoromethane					99.50	82-126		WG626448
Toluene-d8					105.7	92-112		WG626448
a,a,a-Trifluorotoluene					107.6	90-116		WG626448

* Performance of this Analyte is outside of established criteria.
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Gastonia, NC 28056-6000

Quality Assurance Report
Level II

L609019

December 07, 2012

Analyte	Units	Matrix Spike MSD	Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,1-Trichloroethane	mg/l	0.0258	0.0238	103.	58-137	8.32	20	L609018-03	WG626213
1,1-Dichloroethane	mg/l	0.0247	0.0232	98.6	58-133	6.02	20	L609018-03	WG626213
1,1-Dichloroethene	mg/l	0.0290	0.0254	116.	32-152	13.3	20	L609018-03	WG626213
1,2-Dibromoethane	mg/l	0.0226	0.0216	90.5	71-129	4.61	20	L609018-03	WG626213
1,2-Dichloroethane	mg/l	0.0221	0.0212	88.4	59-135	3.96	20	L609018-03	WG626213
1,2-Dichloropropane	mg/l	0.0244	0.0231	97.5	68-126	5.37	20	L609018-03	WG626213
1,3-Dichlorobenzene	mg/l	0.0229	0.0211	91.6	69-131	8.08	20	L609018-03	WG626213
1,4-Dichlorobenzene	mg/l	0.0227	0.0209	91.0	70-123	8.42	20	L609018-03	WG626213
2-Chloroethyl vinyl ether	mg/l	0.00661	0.00836	5.29*	10-161	23.3	40	L609018-03	WG626213
Benzene	mg/l	0.0238	0.0227	95.1	51-134	4.77	20	L609018-03	WG626213
Bromodichloromethane	mg/l	0.0233	0.0223	93.2	67-132	4.42	20	L609018-03	WG626213
Bromoform	mg/l	0.0229	0.0217	91.7	59-137	5.25	20	L609018-03	WG626213
Bromomethane	mg/l	0.0269	0.0253	107.	23-177	6.08	21	L609018-03	WG626213
Chlorobenzene	mg/l	0.0224	0.0216	89.6	69-126	3.80	20	L609018-03	WG626213
Chlorodibromomethane	mg/l	0.0220	0.0210	88.1	68-130	4.84	20	L609018-03	WG626213
Chloroethane	mg/l	0.0255	0.0231	102.	32-177	9.75	21	L609018-03	WG626213
Chloroform	mg/l	0.0236	0.0225	94.6	64-130	4.79	20	L609018-03	WG626213
Chloromethane	mg/l	0.0217	0.0202	87.0	27-155	7.18	20	L609018-03	WG626213
cis-1,3-Dichloropropene	mg/l	0.0238	0.0224	95.2	63-127	6.01	20	L609018-03	WG626213
Di-isopropyl ether	mg/l	0.0254	0.0240	102.	58-133	5.58	20	L609018-03	WG626213
Dichlorodifluoromethane	mg/l	0.0234	0.0218	93.5	16-188	6.93	22	L609018-03	WG626213
Ethylbenzene	mg/l	0.0237	0.0226	94.9	64-135	5.03	20	L609018-03	WG626213
m&p-Xylenes	mg/l	0.0461	0.0443	92.3	62-135	4.01	20	L609018-03	WG626213
Methyl tert-butyl ether	mg/l	0.0249	0.0230	99.6	55-136	7.96	20	L609018-03	WG626213
Methylene Chloride	mg/l	0.0226	0.0219	90.6	52-130	3.50	20	L609018-03	WG626213
Naphthalene	mg/l	0.0239	0.0205	95.7	65-140	15.2	20	L609018-03	WG626213
o-Xylene	mg/l	0.0234	0.0224	93.6	63-135	4.48	20	L609018-03	WG626213
Tetrachloroethene	mg/l	0.0228	0.0218	91.1	56-139	4.55	20	L609018-03	WG626213
Toluene	mg/l	0.0231	0.0219	92.3	61-126	5.31	20	L609018-03	WG626213
trans-1,2-Dichloroethene	mg/l	0.0242	0.0233	96.8	45-137	3.89	20	L609018-03	WG626213
trans-1,3-Dichloropropene	mg/l	0.0239	0.0225	95.4	59-130	5.90	20	L609018-03	WG626213
Trichloroethene	mg/l	0.0239	0.0224	95.6	40-155	6.59	20	L609018-03	WG626213
Trichlorofluoromethane	mg/l	0.0262	0.0256	105.	35-177	2.32	23	L609018-03	WG626213
Vinyl chloride	mg/l	0.0242	0.0228	96.8	32-159	6.06	21	L609018-03	WG626213
4-Bromofluorobenzene				103.7	82-120				WG626213
Dibromofluoromethane				100.2	82-126				WG626213
Toluene-d8				106.1	92-112				WG626213
a,a,a-Trifluorotoluene				106.2	90-116				WG626213
1,1,2,2-Tetrachloroethane	mg/l	0.0262	0.0238	105.	64-149	9.56	20	L608862-01	WG626337
1,1,2-Trichloroethane	mg/l	0.0245	0.0247	97.8	73-128	1.02	20	L608862-01	WG626337
1,2-Dichlorobenzene	mg/l	0.0258	0.0227	103.	75-125	12.8	20	L608862-01	WG626337
4-Bromofluorobenzene				96.19	82-120				WG626337
Dibromofluoromethane				98.92	82-126				WG626337
Toluene-d8				95.10	92-112				WG626337
a,a,a-Trifluorotoluene				100.9	90-116				WG626337
1,1,2,2-Tetrachloroethane	mg/l	0.0241	0.0228	96.2	64-149	5.19	20	L609224-11	WG626448
1,1,2-Trichloroethane	mg/l	0.0241	0.0230	96.6	73-128	4.83	20	L609224-11	WG626448
1,2-Dichlorobenzene	mg/l	0.0240	0.0232	95.9	75-125	3.11	20	L609224-11	WG626448
Methyl tert-butyl ether	mg/l	0.173	0.162	132.	55-136	6.62	20	L609224-11	WG626448
4-Bromofluorobenzene				104.9	82-120				WG626448
Dibromofluoromethane				102.3	82-126				WG626448
Toluene-d8				105.3	92-112				WG626448
a,a,a-Trifluorotoluene				107.4	90-116				WG626448

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For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Gastonia, NC 28056-6000

Quality Assurance Report
Level II

L609019

December 07, 2012

Batch number /Run number / Sample number cross reference

WG626213: R2465297: L609019-01 02 03 04 05 06 07 08 09 10
WG626337: R2466557: L609019-01 02 03 04 05
WG626448: R2468317: L609019-06 07 08 09 10

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
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Quality Assurance Report
Level II

L609019

December 07, 2012

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

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Gastonia,NC 28056-6000

Billing information:
Service Distribution Company Inc
Mr. Steve Saunders
PO Box 310

Albemarle,NC 28002

Analysis/Container/Preservative

D043

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Phone: (615) 758-5858
Fax: (615) 758-5859

Report to: Mr. Mike Stanforth
Email: mstanforth@exceiengr.com,d

Project Description: Former SERVCO 00311-Concord No. 1
City/State Collected: Concord, NC

Phone: (704) 853-0800
FAX: (704) 853-3949
Client Project #: 23056
Lab Project #: EXCELSERV-23056

Collected by (print): Jon D. McGraw
Site/Facility ID#: 00311
P.O.#:

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day. 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? __No X Yes
FAX? __No __Yes

Acctnum: EXCELSERV (lab use only)
Template/Prelogin: T67993/ P411190
Cooler #: JB 11/7
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	V6200 40mlAmb-HCl	Remarks/Contaminant	Sample # (lab only)
MW-1		GW				2	X		
MW-2	Grab	GW		12-3	1045	2	X	L609019-01	
MW-3		GW		12-3	1100	2	X	-02	
MW-4		GW		12-3	1115	2	X	-03	
MW-5		GW		12-3	1130	2	X	-04	
MW-7	Grab	GW		12-3	1315	2	X	-05	
MW-8		GW				2	X		
MW-9	Grab	GW		12-3	1300	2	X	-06	
MW-10		GW				2	X		

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

5473 4731 9316

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐	Condition: (lab use only)
Jon D. McGraw	12-3-12	1730			OK MS
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.2° Bottles Received: 20 TB	COC Seal Intact: ✓ Y ___ N ___ NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 12/4/12 Time: 0900	pH Checked: NCF:

Excel Civil & Environmental Associates
PO Box 6172
Gastonia,NC 28056-6000

Billing information:
Service Distribution Company Inc
Mr. Steve Saunders
PO Box 310

Albemarle,NC 28002

Chain of Custody
Page 2 of 2

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Report to: Mr. Mike Stanforth
Email: mstanforth@excelengr.com,d
Project Description: Former SERVCO 00311-Concord No. 1
City/State Collected: Concord, NC
Phone: (704) 853-0800
FAX: (704) 853-3949
Client Project #: 23056
Lab Project #: EXCELSERV-23056
Collected by (print): Jon D. McGraw
Site/Facility ID#: 00311
P.O.#:
Collected by (signature):
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day.....100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed
Email? ___No X Yes
FAX? ___No ___Yes

Acctnum: EXCELSERV (lab use only)
Template/Prelogin: T67993/ P411190
Cooler #: JB 1117
Shipped Via: FedEX Ground

Analysis/Container/Preservative: V6200 40mlAmb-HCl

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	V6200 40mlAmb-HCl	Remarks/Contaminant	Sample # (lab only)
MW-11	Grab	GW		12-3	1215	2	X		LG69019-07
MW-12		GW			1200	2	X		-08
MW-13		GW			1230	2	X		-09
MW-14	Grab	GW		12-3	1145	2	X		-10
WS-1		GW				2	X		

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐	Condition: OK (lab use only)
Jon D. McGraw	12-3-12	1730			
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.2 Bottles Received:	COC Seal Intact: ___Y ___N ___NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 12/4/12 Time: 0900	pH Checked: NCF:

COPY

NCDENR

North Carolina Department of Environment and Natural Resources

Pat McCrory, Governor

Division of Waste Management
UST Section

John E. Skvarla, III, Secretary
Dexter R. Matthews, Director

January 14, 2013

Service Distributing Company, Inc.
Post Office Box 310
Albemarle, NC 28002
Attention: Robert E. Gresham

Re: Notice of Regulatory Requirements
15A NCAC 2L .0407(b)
Risk-based Assessment and Corrective Action
for Petroleum Underground Storage Tanks

Servco No. 00311
24 North Church Street
Cabarrus County
Incident Number: 27502
Risk Classification: High
Ranking: H190D

Dear Mr. Gresham:

The UST Section is in receipt of the report dated December 31, 2012. The report has been reviewed and will be maintained in the Mooresville Regional Office. Please install and sample another downgradient monitoring well at the bottom of the embankment (north corner) in accordance with the most recent version of the *Guidelines for Assessment and Corrective Action for UST Releases* and in accordance with Title 15A NCAC 2C .0100. You may submit a Trust Fund pre-approval request within 14 days of this notice for review. Submit the well construction records and sampling results in the next Active Remediation Monitoring Report, due prior to June 1, 2013.

If you have questions regarding the information contained in this letter, please contact me at (704) 235-2168 or by the address for the Mooresville Regional Office listed below.

Sincerely,

Brett Morris
Hydrogeologist
Mooresville Regional Office

cc: Mike Stanforth – Excel Civil & Environmental Associates, PLLC

UST Regional Offices

Asheville (ARO) – 2090 US Highway 70, Swannanoa, NC 28778 **(828) 296-4500**

Fayetteville (FAY) – 225 Green Street, Suite 714, Systel Building, Fayetteville, NC 28301 **(910) 433-3300**

Mooresville (MOR) – 610 East Center Avenue, Suite 301, Mooresville, NC 28115 **(704) 663-1699**

Raleigh (RRO) – 1628 Mail Service Center, Raleigh, NC 27699 **(919) 791-4200**

Washington (WAS) – 943 Washington Square Mall, Washington, NC 27889 **(252) 946-6481**

Wilmington (WIL) – 127 Cardinal Drive Extension, Wilmington, NC 28405 **(910) 796-7215**

Winston-Salem (WS) – 585 Waughtown Street, Winston-Salem, NC 27107 **(336) 771-5000**

Guilford County Environmental Health, 400 West Market Street, Suite 300, Greensboro, NC 27401, **(336) 641-3771**

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