Ambient Monitoring System Station Summaries
NCDENR, Division of Water Quality
Basinwide Assessment Report

Location: SALEM CRK AT SR 2991 FRATERNITY CHURCH RD NR WINSTON SALEM

Station #: Q2570000 **Hydrologic Unit Code:** 03040101

Latitude: 36.00855 **Longitude:** -80.33528 **Stream class:** C

Agency: YPDRBA **NC stream index:** 12-94-12-(4)

Time period: 01/25/2005 to 12/15/2009

	# results	# ND	EL	Results not meeting EL #	%	%Conf	Percentiles Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		5.6	6.3	6.5	7.3	9.4	10.2	11.4
	85	0	<5	0	0		5.6	6.3	6.5	7.3	9.4	10.2	11.4
pH (SU)	85	0	<6	0	0		6.7	6.8	6.8	6.9	7.1	7.2	7.3
	85	0	>9	0	0		6.7	6.8	6.8	6.9	7.1	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				126	193	220	268	320	398	735
Water Temperature (°C)	85	0	>32	0	0		4.7	6.3	10.2	18.5	22.8	23.9	25.3
Other													
Turbidity (NTU)	60	0	>50	3	5		2.2	4.5	6	9.4	16.8	27.5	180
Nutrients (mg/L)													
NH3 as N	60	4	N/A				0.01	0.05	0.1	0.14	0.2	0.3	0.41
NO2 + NO3 as N	60	0	N/A				1.38	2.48	4.02	5.22	6.11	8.46	12.6
TKN as N	60	1	N/A				0.2	0.7	0.95	1.31	1.56	1.83	3.98
Total Phosphorus	60	0	N/A				0.29	0.79	1.31	1.99	2.68	3.27	4.63
Metals (ug/L)													
Aluminum, total (Al)	14	0	N/A				131	146	192	246	463	642	756
Arsenic, total (As)	14	14	>10	0	0		5	5	5	5	5	5	5
Cadmium, total (Cd)	14	14	>2	0	0		1	1	1	1	1	1	1
Chromium, total (Cr)	14	12	>50	0	0		5	5	5	5	5	6	7
Copper, total (Cu)	14	0	>7	0	0		3	4	5	6	7	7	7
Iron, total (Fe)	14	0	>1000	2	14.3	84.2	441	452	565	721	976	1190	1378
Lead, total (Pb)	14	14	>25	0	0		5	5	5	5	5	5	5
Mercury, total (Hg)	14	14	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	14	14	>88	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	14	0	>50	5	35.7	99.9	33	34	39	47	52	58	59

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	74.1	0	0	

Key:
result: number of observations
ND: number of observations reported to be below detection level (non-detect)
EL: Evaluation Level; applicable numeric or narrative water quality standard or action level
Results not meeting EL: number and percentages of observations not meeting evaluation level
%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)
Stations with less than 10 results for a given parameter were not evaluated for statistical confidence