PBS&J POST, BUCKLEY, SCHUH & JERNIGAN, INC.

ENGINEERING
PLANNING

1107gw 041798

Fac/Perm/Co ID #	Date	c ID#
fc	7/15/04	DIN

May 11, 1998 11:37

CERTIFICATE OF ANALYSIS

SAMPLE SUMMARY

WORKORDER:
9804301

SENT TO: *BUNCOMBE COUNTY SOLID WASTE*
3214 SPRING FOREST ROAD
RALEIGH, N.C. 27616

BOB HUNTER
919/876-6888X237 FAX 876-6840

ANALYZED BY: PBS&J Environmental Laboratories
6635 East Colonial Drive
Orlando, Florida 32807

Phone: (407) 277-4443
Fax: (407)382-8794

PROJECT: 28_080_04
PBS&J CONTACT: MAY
RECEIVED DATE: 04/17/98
REPORTED DATE: 05/11/98

WORK DESCRIPTION: NEW FACILITY
TAKEN BY: P. NERO, V. MAY
TRANSPORTED: GREYHOUND
SAMPLE TYPES: GRAB
PO#:

State of Florida Certifications: E83011-Environmental, 83170-Drinking Water and Radiochemistry
CompQAP 860044G. State of North Carolina Certification: 547

SAMPLE DESCRIPTION	LAB ID	COLLECTED DATE/TIME
EQ BLANK	01	04/15/98 09:35:00
MW-2	02	04/15/98 11:00:00
MW-2D	03	04/15/98 11:40:00
MW-4	04	04/15/98 09:40:00
MW-4D	05	04/15/98 10:00:00
MW-4 DUP	06	04/15/98 09:40:00

Tom French / Vanessa May
Project Manager

Sample I.D.: EQ BLANK

Thank you for using PBS&J Analytical Services

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: *BUNCOMBE COUNTY SOLID WASTE*
3214 SPRING FOREST ROAD
RALEIGH, N.C. 27616

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Orlando, FL 32807

Phone: (407) 277-4443
Fax: (407) 382-8794

This is to certify that the following samples were analyzed using good laboratory practices to show the following results.

Sample ID: EQ BLANK Lab ID: 9804301-01D Collected: 04/15/98 09:35:00

TEST	RESULT	UNITS	ANALYZED	BY
CONDUCTIVITY IN FIELD	0	umhos/cm		
pH IN FIELD	6.48	pH UNITS		
TEMPERATURE IN FIELD	20.6	DEG C		
DIBROMOCHLOROPROPANE	<0.02 U	ug/L	05/04/98	RP
ETHYLENE DIBROMIDE	<0.02 U	ug/L	05/04/98	RP
Appendix I Metals (TRACE)				
Antimony	<0.005 U	mg/L	04/22/98	MIM
Arsenic	<0.005 U	mg/L	04/22/98	MIM
Barium	<0.001 U	mg/L	04/22/98	MIM
Beryllium	<0.001 U	mg/L	04/22/98	MIM
Cadmium	<0.001 U	mg/L	04/22/98	MIM
Chromium	<0.010 U	mg/L	04/22/98	MIM
Cobalt	<0.005 U	mg/L	04/22/98	MIM
Copper	<0.005 U	mg/L	04/22/98	MIM
Lead	<0.004 U	mg/L	04/22/98	MIM
Nickel	<0.005 U	mg/L	04/22/98	MIM
Selenium	<0.005 U	mg/L	04/22/98	MIM
Silver	<0.005 U	mg/L	04/22/98	MIM
Thallium	<0.002 U	mg/L	04/22/98	MIM
Vanadium	<0.005 U	mg/L	04/22/98	MIM
Zinc	<0.020 U	mg/L	04/22/98	MIM
Appendix I Volatiles				
ACETONE	<20 U	ug/L	04/24/98	SI
ACRYLONITRILE	<8 U	ug/L	04/24/98	SI
BENZENE	<1 U	ug/L	04/24/98	SI
BROMOCHLOROMETHANE	<1 U	ug/L	04/24/98	SI
BROMODICHLOROMETHANE	<0.6 U	ug/L	04/24/98	SI
BROMOFORM	<1 U	ug/L	04/24/98	SI
CARBON DISULFIDE	<2 U	ug/L	04/24/98	SI
CARBON TETRACHLORIDE	<1 U	ug/L	04/24/98	SI
CHLOROBENZENE	<1 U	ug/L	04/24/98	SI
CHLOROETHANE	<1 U	ug/L	04/24/98	SI
CHLOROFORM	<1 U	ug/L	04/24/98	SI
DIBROMOCHLOROMETHANE	<1 U	ug/L	04/24/98	SI
o-DICHLOROBENZENE	<1 U	ug/L	04/24/98	SI
p-DICHLOROBENZENE	<1 U	ug/L	04/24/98	SI
TRANS-1,4-DICHLORO-2-BUTE	<25 U	ug/L	04/24/98	SI
1,1-DICHLOROETHANE	<1 U	ug/L	04/24/98	SI
1,2-DICHLOROETHANE	<1 U	ug/L	04/24/98	SI
1,1-DICHLOROETHYLENE	<1 U	ug/L	04/24/98	SI
CIS-1,2-DICHLOROETHYLENE	<1 U	ug/L	04/24/98	SI
TRANS-1,2-DICHLOROETHYLEN	<1 U	ug/L	04/24/98	SI
1,2-DICHLOROPROPANE	<1 U	ug/L	04/24/98	SI
CIS-1,3-DICHLOROPROPENE	<1 U	ug/L	04/24/98	SI
TRANS-1,3-DICHLOROPROPENE	<1 U	ug/L	04/24/98	SI
ETHYLBENZENE	<1 U	ug/L	04/24/98	SI
2-HEXANONE	<10 U	ug/L	04/24/98	SI

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

Sample ID: EQ BLANK Lab ID: 9804301-01C Collected: 04/15/98 09:35:00

TEST	RESULT	UNITS	ANALYZED	BY
Appendix I Volatiles				
METHYL BROMIDE	<1 U	ug/L	04/24/98	SI
METHYL CHLORIDE	<1 U	ug/L	04/24/98	SI
METHYLENE BROMIDE	<1 U	ug/L	04/24/98	SI
METHYLENE CHLORIDE	<1 U	ug/L	04/24/98	SI
METHYL ETHYL KETONE	<20 U	ug/L	04/24/98	SI
METHYL IODIDE	<20 U	ug/L	04/24/98	SI
4-METHYL-2-PENTANONE	<10 U	ug/L	04/24/98	SI
STYRENE	<1 U	ug/L	04/24/98	SI
1,1,1,2-TETRACHLOROETHANE	<1 U	ug/L	04/24/98	SI
1,1,2,2-TETRACHLOROETHANE	<0.2 U	ug/L	04/24/98	SI
TETRACHLOROETHYLENE	<1 U	ug/L	04/24/98	SI
TOLUENE	<1 U	ug/L	04/24/98	SI
1,1,1-TRICHLOROETHANE	<1 U	ug/L	04/24/98	SI
1,1,2-TRICHLOROETHANE	<1 U	ug/L	04/24/98	SI
TRICHLOROETHYLENE	<1 U	ug/L	04/24/98	SI
TRICHLROFLUOROMETHANE	<1 U	ug/L	04/24/98	SI
1,2,3-TRICHLOROPROPANE	<1 U	ug/L	04/24/98	SI
VINYL ACETATE	<10 U	ug/L	04/24/98	SI
VINYL CHLORIDE	<1 U	ug/L	04/24/98	SI
XYLENES	<1 U	ug/L	04/24/98	SI

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RECEIVED DATE: 04/17/98
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TRANSPORTED: GREYHOUND
SAMPLE TYPES: GRAB
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MW-2D	03	04/15/98 11:40:00
MW-4	04	04/15/98 09:40:00
MW-4D	05	04/15/98 10:00:00
MW-4 DUP	06	04/15/98 09:40:00

Tom French / Vanessa May
Project Manager

Sample I.D.: MW-2

Thank you for using PBS&J Analytical Services

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

Sample ID: MW-2 Lab ID: 9804301-02D Collected: 04/15/98 11:00:00

TEST	RESULT	UNITS	ANALYZED	BY
CONDUCTIVITY IN FIELD	111	umhos/cm		
pH IN FIELD	6.20	pH UNITS		
TEMPERATURE IN FIELD	12.8	DEG C		
DIBROMOCHLOROPROPANE	<0.02 U	ug/L	05/04/98	RP
ETHYLENE DIBROMIDE	<0.02 U	ug/L	05/04/98	RP
Appendix I Metals (TRACE)				
Antimony	<0.005 U	mg/L	04/22/98	MIM
Arsenic	<0.005 U	mg/L	04/22/98	MIM
Barium	0.527	mg/L	04/22/98	MIM
Beryllium	0.002 I	mg/L	04/22/98	MIM
Cadmium	0.002 I	mg/L	04/22/98	MIM
Chromium	0.04 I	mg/L	04/22/98	MIM
Cobalt	0.042	mg/L	04/22/98	MIM
Copper	0.028	mg/L	04/22/98	MIM
Lead	0.020	mg/L	04/22/98	MIM
Nickel	0.049	mg/L	04/22/98	MIM
Selenium	<0.005 U	mg/L	04/22/98	MIM
Silver	<0.005 U	mg/L	04/22/98	MIM
Thallium	<0.002 U	mg/L	04/22/98	MIM
Vanadium	0.047	mg/L	04/22/98	MIM
Zinc	0.19	mg/L	04/22/98	MIM
Appendix I Volatiles				
ACETONE	<20 U	ug/L	04/24/98	SI
ACRYLONITRILE	<8 U	ug/L	04/24/98	SI
BENZENE	<1 U	ug/L	04/24/98	SI
BROMOCHLOROMETHANE	<1 U	ug/L	04/24/98	SI
BROMODICHLOROMETHANE	<0.6 U	ug/L	04/24/98	SI
BROMOFORM	<1 U	ug/L	04/24/98	SI
CARBON DISULFIDE	<2 U	ug/L	04/24/98	SI
CARBON TETRACHLORIDE	<1 U	ug/L	04/24/98	SI
CHLOROBENZENE	<1 U	ug/L	04/24/98	SI
CHLOROETHANE	<1 U	ug/L	04/24/98	SI
CHLOROFORM	<1 U	ug/L	04/24/98	SI
DIBROMOCHLOROMETHANE	<1 U	ug/L	04/24/98	SI
o-DICHLOROBENZENE	<1 U	ug/L	04/24/98	SI
p-DICHLOROBENZENE	<1 U	ug/L	04/24/98	SI
TRANS-1,4-DICHLORO-2-BUTE	<25 U	ug/L	04/24/98	SI
1,1-DICHLOROETHANE	<1 U	ug/L	04/24/98	SI
1,2-DICHLOROETHANE	<1 U	ug/L	04/24/98	SI
1,1-DICHLOROETHYLENE	<1 U	ug/L	04/24/98	SI
CIS-1,2-DICHLOROETHYLENE	<1 U	ug/L	04/24/98	SI
TRANS-1,2-DICHLOROETHYLEN	<1 U	ug/L	04/24/98	SI
1,2-DICHLOROPROPANE	<1 U	ug/L	04/24/98	SI
CIS-1,3-DICHLOROPROPENE	<1 U	ug/L	04/24/98	SI
TRANS-1,3-DICHLOROPROPENE	<1 U	ug/L	04/24/98	SI
ETHYLBENZENE	<1 U	ug/L	04/24/98	SI
2-HEXANONE	<10 U	ug/L	04/24/98	SI
METHYL BROMIDE	<1 U	ug/L	04/24/98	SI
METHYL CHLORIDE	<1 U	ug/L	04/24/98	SI
METHYLENE BROMIDE	<1 U	ug/L	04/24/98	SI
METHYLENE CHLORIDE	<1 U	ug/L	04/24/98	SI
METHYL ETHYL KETONE	<20 U	ug/L	04/24/98	SI
METHYL IODIDE	<20 U	ug/L	04/24/98	SI
4-METHYL-2-PENTANONE	<10 U	ug/L	04/24/98	SI
STYRENE	<1 U	ug/L	04/24/98	SI
1,1,1,2-TETRACHLOROETHANE	<1 U	ug/L	04/24/98	SI
1,1,2,2-TETRACHLOROETHANE	<0.2 U	ug/L	04/24/98	SI
TETRACHLOROETHYLENE	<1 U	ug/L	04/24/98	SI

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

Sample ID: MW-2 Lab ID: 9804301-02C Collected: 04/15/98 11:00:00

TEST	RESULT	UNITS	ANALYZED	BY
Appendix I Volatiles				
TOLUENE	<1 U	ug/L	04/24/98	SI
1,1,1-TRICHLOROETHANE	<1 U	ug/L	04/24/98	SI
1,1,2-TRICHLOROETHANE	<1 U	ug/L	04/24/98	SI
TRICHLOROETHYLENE	<1 U	ug/L	04/24/98	SI
TRICHLROFLUOROMETHANE	<1 U	ug/L	04/24/98	SI
1,2,3-TRICHLOROPROPANE	<1 U	ug/L	04/24/98	SI
VINYL ACETATE	<10 U	ug/L	04/24/98	SI
VINYL CHLORIDE	<1 U	ug/L	04/24/98	SI
XYLENES	<1 U	ug/L	04/24/98	SI

POST, BUCKLEY, SCHUH & JERNIGAN, INC.

ENGINEERING
PLANNING

May 11, 1998 11:37

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SAMPLE SUMMARY

WORKORDER:
9804301

SENT TO: ***BUNCOMBE COUNTY SOLID WASTE***
3214 SPRING FOREST ROAD
RALEIGH, N.C. 27616

BOB HUNTER
919/876-6888X237 FAX 876-6840

ANALYZED BY: PBS&J Environmental Laboratories
6635 East Colonial Drive
Orlando, Florida 32807

Phone: (407) 277-4443
Fax: (407)382-8794

PROJECT:	28_080_04	WORK DESCRIPTION:	NEW FACILITY
PBS&J CONTACT:	MAY	TAKEN BY:	P. NERO, V. MAY
RECEIVED DATE:	04/17/98	TRANSPORTED:	GREYHOUND
REPORTED DATE:	05/11/98	SAMPLE TYPES:	GRAB
		PO#:	

State of Florida Certifications: E83011-Environmental, 83170-Drinking Water and Radiochemistry CompQAP 860044G. State of North Carolina Certification: 547

SAMPLE DESCRIPTION	LAB ID	COLLECTED DATE/TIME
EQ BLANK	01	04/15/98 09:35:00
MW-2	02	04/15/98 11:00:00
MW-2D	03	04/15/98 11:40:00
MW-4	04	04/15/98 09:40:00
MW-4D	05	04/15/98 10:00:00
MW-4 DUP	06	04/15/98 09:40:00

Tom French / Vanessa May
Project Manager

Sample I.D.: MW-2D

Thank you for using PBS&J Analytical Services

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

Sample ID: MW-2D Lab ID: 9804301-03D Collected: 04/15/98 11:40:00

TEST	RESULT	UNITS	ANALYZED	BY
CONDUCTIVITY IN FIELD	170	umhos/cm		
pH IN FIELD	6.69	pH UNITS		
TEMPERATURE IN FIELD	15.9	DEG C		
DIBROMOCHLOROPROPANE	<0.02 U	ug/L	05/04/98	RP
ETHYLENE DIBROMIDE	<0.02 U	ug/L	05/04/98	RP
Appendix I Metals (TRACE)				
Antimony	<0.005 U	mg/L	04/22/98	MIM
Arsenic	<0.005 U	mg/L	04/22/98	MIM
Barium	0.083	mg/L	04/22/98	MIM
Beryllium	<0.001 U	mg/L	04/22/98	MIM
Cadmium	<0.001 U	mg/L	04/22/98	MIM
Chromium	<0.010 U	mg/L	04/22/98	MIM
Cobalt	<0.005 U	mg/L	04/22/98	MIM
Copper	<0.005 U	mg/L	04/22/98	MIM
Lead	0.005 I	mg/L	04/22/98	MIM
Nickel	<0.005 U	mg/L	04/22/98	MIM
Selenium	<0.005 U	mg/L	04/22/98	MIM
Silver	<0.005 U	mg/L	04/22/98	MIM
Thallium	<0.002 U	mg/L	04/22/98	MIM
Vanadium	<0.005 U	mg/L	04/22/98	MIM
Zinc	0.18	mg/L	04/22/98	MIM
Appendix I Volatiles				
ACETONE	<20 U	ug/L	04/24/98	SI
ACRYLONITRILE	<8 U	ug/L	04/24/98	SI
BENZENE	<1 U	ug/L	04/24/98	SI
BROMOCHLOROMETHANE	<1 U	ug/L	04/24/98	SI
BROMODICHLOROMETHANE	<0.6 U	ug/L	04/24/98	SI
BROMOFORM	<1 U	ug/L	04/24/98	SI
CARBON DISULFIDE	<2 U	ug/L	04/24/98	SI
CARBON TETRACHLORIDE	<1 U	ug/L	04/24/98	SI
CHLOROBENZENE	<1 U	ug/L	04/24/98	SI
CHLOROETHANE	<1 U	ug/L	04/24/98	SI
CHLOROFORM	<1 U	ug/L	04/24/98	SI
DIBROMOCHLOROMETHANE	<1 U	ug/L	04/24/98	SI
o-DICHLOROBENZENE	<1 U	ug/L	04/24/98	SI
p-DICHLOROBENZENE	<1 U	ug/L	04/24/98	SI
TRANS-1,4-DICHLORO-2-BUTE	<25 U	ug/L	04/24/98	SI
1,1-DICHLOROETHANE	<1 U	ug/L	04/24/98	SI
1,2-DICHLOROETHANE	<1 U	ug/L	04/24/98	SI
1,1-DICHLOROETHYLENE	<1 U	ug/L	04/24/98	SI
CIS-1,2-DICHLOROETHYLENE	<1 U	ug/L	04/24/98	SI
TRANS-1,2-DICHLOROETHYLEN	<1 U	ug/L	04/24/98	SI
1,2-DICHLOROPROPANE	<1 U	ug/L	04/24/98	SI
CIS-1,3-DICHLOROPROPENE	<1 U	ug/L	04/24/98	SI
TRANS-1,3-DICHLOROPROPENE	<1 U	ug/L	04/24/98	SI
ETHYLBENZENE	<1 U	ug/L	04/24/98	SI
2-HEXANONE	<10 U	ug/L	04/24/98	SI
METHYL BROMIDE	<1 U	ug/L	04/24/98	SI
METHYL CHLORIDE	<1 U	ug/L	04/24/98	SI
METHYLENE BROMIDE	<1 U	ug/L	04/24/98	SI
METHYLENE CHLORIDE	<1 U	ug/L	04/24/98	SI
METHYL ETHYL KETONE	<20 U	ug/L	04/24/98	SI
METHYL IODIDE	<20 U	ug/L	04/24/98	SI
4-METHYL-2-PENTANONE	<10 U	ug/L	04/24/98	SI
STYRENE	<1 U	ug/L	04/24/98	SI
1,1,1,2-TETRACHLOROETHANE	<1 U	ug/L	04/24/98	SI
1,1,2,2-TETRACHLOROETHANE	<0.2 U	ug/L	04/24/98	SI
TETRACHLOROETHYLENE	<1 U	ug/L	04/24/98	SI

Sample ID: MW-2D Lab ID: 9804301-03C Collected: 04/15/98 11:40:00

TEST	RESULT	UNITS	ANALYZED	BY
Appendix I Volatiles				
TOLUENE	<1 U	ug/L	04/24/98	SI
1,1,1-TRICHLOROETHANE	<1 U	ug/L	04/24/98	SI
1,1,2-TRICHLOROETHANE	<1 U	ug/L	04/24/98	SI
TRICHLOROETHYLENE	<1 U	ug/L	04/24/98	SI
TRICHLROFLUOROMETHANE	<1 U	ug/L	04/24/98	SI
1,2,3-TRICHLOROPROPANE	<1 U	ug/L	04/24/98	SI
VINYL ACETATE	<10 U	ug/L	04/24/98	SI
VINYL CHLORIDE	<1 U	ug/L	04/24/98	SI
XYLENES	<1 U	ug/L	04/24/98	SI

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MW-2D	03	04/15/98 11:40:00
MW-4	04	04/15/98 09:40:00
MW-4D	05	04/15/98 10:00:00
MW-4 DUP	06	04/15/98 09:40:00

Tom French / Vanessa May
Project Manager

Sample I.D.: MW-4

Thank you for using PBS&J Analytical Services

RESULTS BY SAMPLE

Sample ID: MW-4 Lab ID: 9804301-04B Collected: 04/15/98 09:40:00

TEST	RESULT	UNITS	ANALYZED	BY
DIBROMOCHLOROPROPANE	<0.02 U	ug/L	05/04/98	RP
ETHYLENE DIBROMIDE	<0.02 U	ug/L	05/04/98	RP
Appendix I Metals (TRACE)				
Antimony	<0.005 U	mg/L	04/22/98	MIM
Arsenic	0.006 I	mg/L	04/22/98	MIM
Barium	0.911	mg/L	04/22/98	MIM
Beryllium	0.004	mg/L	04/22/98	MIM
Cadmium	0.006	mg/L	04/22/98	MIM
Chromium	0.26	mg/L	04/22/98	MIM
Cobalt	0.084	mg/L	04/22/98	MIM
Copper	0.171	mg/L	04/22/98	MIM
Lead	0.023	mg/L	04/22/98	MIM
Nickel	0.126	mg/L	04/22/98	MIM
Selenium	<0.005 U	mg/L	04/22/98	MIM
Silver	<0.005 U	mg/L	04/22/98	MIM
Thallium	<0.002 U	mg/L	04/22/98	MIM
Vanadium	0.342	mg/L	04/22/98	MIM
Zinc	0.21	mg/L	04/22/98	MIM
Appendix I Volatiles				
ACETONE	<20 U	ug/L	04/24/98	SI
ACRYLONITRILE	<8 U	ug/L	04/24/98	SI
BENZENE	<1 U	ug/L	04/24/98	SI
BROMOCHLOROMETHANE	<1 U	ug/L	04/24/98	SI
BROMODICHLOROMETHANE	<0.6 U	ug/L	04/24/98	SI
BROMOFORM	<1 U	ug/L	04/24/98	SI
CARBON DISULFIDE	<2 U	ug/L	04/24/98	SI
CARBON TETRACHLORIDE	<1 U	ug/L	04/24/98	SI
CHLOROBENZENE	<1 U	ug/L	04/24/98	SI
CHLOROETHANE	<1 U	ug/L	04/24/98	SI
CHLOROFORM	<1 U	ug/L	04/24/98	SI
DIBROMOCHLOROMETHANE	<1 U	ug/L	04/24/98	SI
o-DICHLOROBENZENE	<1 U	ug/L	04/24/98	SI
p-DICHLOROBENZENE	<1 U	ug/L	04/24/98	SI
TRANS-1,4-DICHLORO-2-BUTE	<25 U	ug/L	04/24/98	SI
1,1-DICHLOROETHANE	<1 U	ug/L	04/24/98	SI
1,2-DICHLOROETHANE	<1 U	ug/L	04/24/98	SI
1,1-DICHLOROETHYLENE	<1 U	ug/L	04/24/98	SI
CIS-1,2-DICHLOROETHYLENE	<1 U	ug/L	04/24/98	SI
TRANS-1,2-DICHLOROETHYLEN	<1 U	ug/L	04/24/98	SI
1,2-DICHLOROPROPANE	<1 U	ug/L	04/24/98	SI
CIS-1,3-DICHLOROPROPENE	<1 U	ug/L	04/24/98	SI
TRANS-1,3-DICHLOROPROPENE	<1 U	ug/L	04/24/98	SI
ETHYLBENZENE	<1 U	ug/L	04/24/98	SI
2-HEXANONE	<10 U	ug/L	04/24/98	SI
METHYL BROMIDE	<1 U	ug/L	04/24/98	SI
METHYL CHLORIDE	<1 U	ug/L	04/24/98	SI
METHYLENE BROMIDE	<1 U	ug/L	04/24/98	SI
METHYLENE CHLORIDE	<1 U	ug/L	04/24/98	SI
METHYL ETHYL KETONE	<20 U	ug/L	04/24/98	SI
METHYL IODIDE	<20 U	ug/L	04/24/98	SI
4-METHYL-2-PENTANONE	<10 U	ug/L	04/24/98	SI
STYRENE	<1 U	ug/L	04/24/98	SI
1,1,1,2-TETRACHLOROETHANE	<1 U	ug/L	04/24/98	SI
1,1,2,2-TETRACHLOROETHANE	<0.2 U	ug/L	04/24/98	SI
TETRACHLOROETHYLENE	<1 U	ug/L	04/24/98	SI
TOLUENE	<1 U	ug/L	04/24/98	SI
1,1,1-TRICHLOROETHANE	<1 U	ug/L	04/24/98	SI
1,1,2-TRICHLOROETHANE	<1 U	ug/L	04/24/98	SI

Sample ID: MW-4 Lab ID: 9804301-04C Collected: 04/15/98 09:40:00

TEST	RESULT	UNITS	ANALYZED	BY
Appendix I Volatiles				
TRICHLOROETHYLENE	<1 U	ug/L	04/24/98	SI
TRICHLROFLUOROMETHANE	<1 U	ug/L	04/24/98	SI
1,2,3-TRICHLOROPROPANE	<1 U	ug/L	04/24/98	SI
VINYL ACETATE	<10 U	ug/L	04/24/98	SI
VINYL CHLORIDE	<1 U	ug/L	04/24/98	SI
XYLENES	<1 U	ug/L	04/24/98	SI

PBS&J POST, BUCKLEY, SCHUH & JERNIGAN, INC.

ENGINEERING
PLANNING

May 11, 1998 11:37

CERTIFICATE OF ANALYSIS

SAMPLE SUMMARY

WORKORDER:
9804301

SENT TO: *BUNCOMBE COUNTY SOLID WASTE*
3214 SPRING FOREST ROAD
RALEIGH, N.C. 27616

BOB HUNTER
919/876-6888X237 FAX 876-6840

ANALYZED BY: PBS&J Environmental Laboratories
6635 East Colonial Drive
Orlando, Florida 32807

Phone: (407) 277-4443
Fax: (407)382-8794

PROJECT: 28_080_04
PBS&J CONTACT: MAY
RECEIVED DATE: 04/17/98
REPORTED DATE: 05/11/98

WORK DESCRIPTION: NEW FACILITY
TAKEN BY: P. NERO, V. MAY
TRANSPORTED: GREYHOUND
SAMPLE TYPES: GRAB
PO#:

State of Florida Certifications: E83011-Environmental, 83170-Drinking Water and Radiochemistry
CompQAP 860044G. State of North Carolina Certification: 547

SAMPLE DESCRIPTION	LAB ID	COLLECTED DATE/TIME
EQ BLANK	01	04/15/98 09:35:00
MW-2	02	04/15/98 11:00:00
MW-2D	03	04/15/98 11:40:00
MW-4	04	04/15/98 09:40:00
MW-4D	05	04/15/98 10:00:00
MW-4 DUP	06	04/15/98 09:40:00

Tom French / Vanessa May
Project Manager

Sample I.D.: MW-4D

Thank you for using PBS&J Analytical Services

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

Sample ID: MW-4D Lab ID: 9804301-05D Collected: 04/15/98 10:00:00

TEST	RESULT	UNITS	ANALYZED	BY
CONDUCTIVITY IN FIELD	229	umhos/cm		
pH IN FIELD	6.35	pH UNITS		
TEMPERATURE IN FIELD	13.2	DEG C		
DIBROMOCHLOROPROPANE	<0.02 U	ug/L	05/04/98	RP
ETHYLENE DIBROMIDE	<0.02 U	ug/L	05/04/98	RP
Appendix I Metals (TRACE)				
Antimony	<0.005 U	mg/L	04/22/98	MIM
Arsenic	<0.005 U	mg/L	04/22/98	MIM
Barium	0.042	mg/L	04/22/98	MIM
Beryllium	<0.001 U	mg/L	04/22/98	MIM
Cadmium	<0.001 U	mg/L	04/22/98	MIM
Chromium	<0.010 U	mg/L	04/22/98	MIM
Cobalt	<0.005 U	mg/L	04/22/98	MIM
Copper	0.005 I	mg/L	04/22/98	MIM
Lead	0.013 I	mg/L	04/22/98	MIM
Nickel	<0.005 U	mg/L	04/22/98	MIM
Selenium	<0.005 U	mg/L	04/22/98	MIM
Silver	<0.005 U	mg/L	04/22/98	MIM
Thallium	<0.002 U	mg/L	04/22/98	MIM
Vanadium	0.006 I	mg/L	04/22/98	MIM
Zinc	0.11	mg/L	04/22/98	MIM
Appendix I Volatiles				
ACETONE	<20 U	ug/L	04/26/98	SI
ACRYLONITRILE	<8 U	ug/L	04/26/98	SI
BENZENE	<1 U	ug/L	04/26/98	SI
BROMOCHLOROMETHANE	<1 U	ug/L	04/26/98	SI
BROMODICHLOROMETHANE	<0.6 U	ug/L	04/26/98	SI
BROMOFORM	<1 U	ug/L	04/26/98	SI
CARBON DISULFIDE	<2 U	ug/L	04/26/98	SI
CARBON TETRACHLORIDE	<1 U	ug/L	04/26/98	SI
CHLOROBENZENE	<1 U	ug/L	04/26/98	SI
CHLOROETHANE	<1 U	ug/L	04/26/98	SI
CHLOROFORM	<1 U	ug/L	04/26/98	SI
DIBROMOCHLOROMETHANE	<1 U	ug/L	04/26/98	SI
o-DICHLOROBENZENE	<1 U	ug/L	04/26/98	SI
p-DICHLOROBENZENE	<1 U	ug/L	04/26/98	SI
TRANS-1,4-DICHLORO-2-BUTE	<25 U	ug/L	04/26/98	SI
1,1-DICHLOROETHANE	<1 U	ug/L	04/26/98	SI
1,2-DICHLOROETHANE	<1 U	ug/L	04/26/98	SI
1,1-DICHLOROETHYLENE	<1 U	ug/L	04/26/98	SI
CIS-1,2-DICHLOROETHYLENE	<1 U	ug/L	04/26/98	SI
TRANS-1,2-DICHLOROETHYLEN	<1 U	ug/L	04/26/98	SI
1,2-DICHLOROPROPANE	<1 U	ug/L	04/26/98	SI
CIS-1,3-DICHLOROPROPENE	<1 U	ug/L	04/26/98	SI
TRANS-1,3-DICHLOROPROPENE	<1 U	ug/L	04/26/98	SI
ETHYLBENZENE	<1 U	ug/L	04/26/98	SI
2-HEXANONE	<10 U	ug/L	04/26/98	SI
METHYL BROMIDE	<1 U	ug/L	04/26/98	SI
METHYL CHLORIDE	<1 U	ug/L	04/26/98	SI
METHYLENE BROMIDE	<1 U	ug/L	04/26/98	SI
METHYLENE CHLORIDE	<1 U	ug/L	04/26/98	SI
METHYL ETHYL KETONE	<20 U	ug/L	04/26/98	SI
METHYL IODIDE	<20 U	ug/L	04/26/98	SI
4-METHYL-2-PENTANONE	<10 U	ug/L	04/26/98	SI
STYRENE	<1 U	ug/L	04/26/98	SI
1,1,1,2-TETRACHLOROETHANE	<1 U	ug/L	04/26/98	SI
1,1,2,2-TETRACHLOROETHANE	<0.2 U	ug/L	04/26/98	SI
TETRACHLOROETHYLENE	<1 U	ug/L	04/26/98	SI

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

Sample ID: MW-4D Lab ID: 9804301-05C Collected: 04/15/98 10:00:00

TEST	RESULT	UNITS	ANALYZED	BY
Appendix I Volatiles				
TOLUENE	<1 U	ug/L	04/26/98	SI
1,1,1-TRICHLOROETHANE	<1 U	ug/L	04/26/98	SI
1,1,2-TRICHLOROETHANE	<1 U	ug/L	04/26/98	SI
TRICHLOROETHYLENE	<1 U	ug/L	04/26/98	SI
TRICHLROFLUOROMETHANE	<1 U	ug/L	04/26/98	SI
1,2,3-TRICHLOROPROPANE	<1 U	ug/L	04/26/98	SI
VINYL ACETATE	<10 U	ug/L	04/26/98	SI
VINYL CHLORIDE	<1 U	ug/L	04/26/98	SI
XYLENES	<1 U	ug/L	04/26/98	SI

POST, BUCKLEY, SCHUH & JERNIGAN, INC.

ENGINEERING
PLANNING

May 11, 1998 11:37

CERTIFICATE OF ANALYSIS

SAMPLE SUMMARY

WORKORDER:
9804301

SENT TO: *BUNCOMBE COUNTY SOLID WASTE*
3214 SPRING FOREST ROAD
RALEIGH, N.C. 27616

BOB HUNTER
919/876-6888X237 FAX 876-6840

ANALYZED BY: PBS&J Environmental Laboratories
6635 East Colonial Drive
Orlando, Florida 32807

Phone: (407) 277-4443
Fax: (407)382-8794

PROJECT: 28_080_04
PBS&J CONTACT: MAY
RECEIVED DATE: 04/17/98
REPORTED DATE: 05/11/98

WORK DESCRIPTION: NEW FACILITY
TAKEN BY: P. NERO, V. MAY
TRANSPORTED: GREYHOUND
SAMPLE TYPES: GRAB
PO#:

State of Florida Certifications: E83011-Environmental, 83170-Drinking Water and Radiochemistry
CompQAP 860044G. State of North Carolina Certification: 547

SAMPLE DESCRIPTION	LAB ID	COLLECTED DATE/TIME
EQ BLANK	01	04/15/98 09:35:00
MW-2	02	04/15/98 11:00:00
MW-2D	03	04/15/98 11:40:00
MW-4	04	04/15/98 09:40:00
MW-4D	05	04/15/98 10:00:00
MW-4 DUP	06	04/15/98 09:40:00

Tom French / Vanessa May
Project Manager

Sample I.D.: MW-4 DUP

Thank you for using PBS&J Analytical Services

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

Sample ID: MW-4 DUP Lab ID: 9804301-06D Collected: 04/15/98 09:40:00

TEST	RESULT	UNITS	ANALYZED	BY
CONDUCTIVITY IN FIELD	197	umhos/cm		
pH IN FIELD	6.03	pH UNITS		
TEMPERATURE IN FIELD	12.3	DEG C		
DIBROMOCHLOROPROPANE	<0.02 U	ug/L	05/04/98	RP
ETHYLENE DIBROMIDE	<0.02 U	ug/L	05/04/98	RP
Appendix I Metals (TRACE)				
Antimony	<0.005 U	mg/L	04/22/98	MIM
Arsenic	<0.005 U	mg/L	04/22/98	MIM
Barium	0.785	mg/L	04/22/98	MIM
Beryllium	0.003 I	mg/L	04/22/98	MIM
Cadmium	0.005	mg/L	04/22/98	MIM
Chromium	0.22	mg/L	04/22/98	MIM
Cobalt	0.073	mg/L	04/22/98	MIM
Copper	0.143	mg/L	04/22/98	MIM
Lead	0.018	mg/L	04/22/98	MIM
Nickel	0.106	mg/L	04/22/98	MIM
Selenium	<0.005 U	mg/L	04/22/98	MIM
Silver	<0.005 U	mg/L	04/22/98	MIM
Thallium	<0.002 U	mg/L	04/22/98	MIM
Vanadium	0.286	mg/L	04/22/98	MIM
Zinc	0.19	mg/L	04/22/98	MIM
Appendix I Volatiles				
ACETONE	<20 U	ug/L	04/26/98	SI
ACRYLONITRILE	<8 U	ug/L	04/26/98	SI
BENZENE	<1 U	ug/L	04/26/98	SI
BROMOCHLOROMETHANE	<1 U	ug/L	04/26/98	SI
BROMODICHLOROMETHANE	<0.6 U	ug/L	04/26/98	SI
BROMOFORM	<1 U	ug/L	04/26/98	SI
CARBON DISULFIDE	<2 U	ug/L	04/26/98	SI
CARBON TETRACHLORIDE	<1 U	ug/L	04/26/98	SI
CHLOROBENZENE	<1 U	ug/L	04/26/98	SI
CHLOROETHANE	<1 U	ug/L	04/26/98	SI
CHLOROFORM	<1 U	ug/L	04/26/98	SI
DIBROMOCHLOROMETHANE	<1 U	ug/L	04/26/98	SI
o-DICHLOROBENZENE	<1 U	ug/L	04/26/98	SI
p-DICHLOROBENZENE	<1 U	ug/L	04/26/98	SI
TRANS-1,4-DICHLORO-2-BUTE	<25 U	ug/L	04/26/98	SI
1,1-DICHLOROETHANE	<1 U	ug/L	04/26/98	SI
1,2-DICHLOROETHANE	<1 U	ug/L	04/26/98	SI
1,1-DICHLOROETHYLENE	<1 U	ug/L	04/26/98	SI
CIS-1,2-DICHLOROETHYLENE	<1 U	ug/L	04/26/98	SI
TRANS-1,2-DICHLOROETHYLEN	<1 U	ug/L	04/26/98	SI
1,2-DICHLOROPROPANE	<1 U	ug/L	04/26/98	SI
CIS-1,3-DICHLOROPROPENE	<1 U	ug/L	04/26/98	SI
TRANS-1,3-DICHLOROPROPENE	<1 U	ug/L	04/26/98	SI
ETHYLBENZENE	<1 U	ug/L	04/26/98	SI
2-HEXANONE	<10 U	ug/L	04/26/98	SI
METHYL BROMIDE	<1 U	ug/L	04/26/98	SI
METHYL CHLORIDE	<1 U	ug/L	04/26/98	SI
METHYLENE BROMIDE	<1 U	ug/L	04/26/98	SI
METHYLENE CHLORIDE	<1 U	ug/L	04/26/98	SI
METHYL ETHYL KETONE	<20 U	ug/L	04/26/98	SI
METHYL IODIDE	<20 U	ug/L	04/26/98	SI
4-METHYL-2-PENTANONE	<10 U	ug/L	04/26/98	SI
STYRENE	<1 U	ug/L	04/26/98	SI
1,1,1,2-TETRACHLOROETHANE	<1 U	ug/L	04/26/98	SI
1,1,2,2-TETRACHLOROETHANE	<0.2 U	ug/L	04/26/98	SI
TETRACHLOROETHYLENE	<1 U	ug/L	04/26/98	SI

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

Sample ID: MW-4 DUP Lab ID: 9804301-06C Collected: 04/15/98 09:40:00

TEST	RESULT	UNITS	ANALYZED	BY
Appendix I Volatiles				
TOLUENE	<1 U	ug/L	04/26/98	SI
1,1,1-TRICHLOROETHANE	<1 U	ug/L	04/26/98	SI
1,1,2-TRICHLOROETHANE	<1 U	ug/L	04/26/98	SI
TRICHLOROETHYLENE	<1 U	ug/L	04/26/98	SI
TRICHLROFLUOROMETHANE	<1 U	ug/L	04/26/98	SI
1,2,3-TRICHLOROPROPANE	<1 U	ug/L	04/26/98	SI
VINYL ACETATE	<10 U	ug/L	04/26/98	SI
VINYL CHLORIDE	<1 U	ug/L	04/26/98	SI
XYLENES	<1 U	ug/L	04/26/98	SI

TABLE 12-2
DATA QUALIFIER CODES

The following codes are used when reporting data values that either meet the specified description outlined below, or do not meet the quality control criteria of the laboratory:

Symbol:	Meaning:
A	Value reported is the mean (average) of two or more determinations. This code is to be used if the results of two or more discrete and separate samples are averaged. These samples shall have been processed and analyzed (e.g. laboratory replicate samples, field duplicates, etc.) independently. Do not use this code if the data are the result of replicate analysis on the same sample aliquot, extract or digestate. Under most conditions, replicate values shall be reported as individual analyses.
B	Results based upon colony counts outside the acceptable range. This code applies to microbiological tests and specifically to membrane filter colony counts. The code is to be used if the colony count is generated from a plate in which the total number of coliform colonies exceeds the method-indicated ideal ranges which are: Total Coliforms: 20 - 80 colonies Fecal Coliforms: 20 - 60 colonies/
J	Estimated value. This code shall be used in the following instances: 1. Surrogate recovery limits have been exceeded. 2. No known quality control criteria exists for the component. 3. The reported value failed to meet the established quality control criteria for either precision or accuracy. 4. The sample matrix interfered with the ability to make any accurate determination. 5. If the data is questionable because of improper laboratory or field protocols (e.g. composite sample was collected instead of a grab sample). Note: a "J" value shall be accompanied by justification for its use. A "J" value shall not be used if any other code applies (e.g., **K, L, M, T, V, Y, I**). A "J" value shall be used if, in the analyst's opinion, the data results are accurate, and the QC failure does not affect the quality of the data results reported.
K	Off-scale low. Actual value is known to be less than the value given. This code shall be used if: 1. The value is less than the lowest calibration standard and the calibration curve is known to be non-linear; or 2. The value is known to be less than the reported value based on sample size, dilution, or some other variable. This code shall not be used to report values that are less than the laboratory practical quantitation limit or laboratory method detection limit.

TABLE 12-2 Continued
DATA QUALIFIER CODES

Symbol:	Meaning:
L	Off-scale high. Actual value is known to be greater than value given. To be used when the concentration of the analyte is above the acceptable level for quantitation (exceeds the linear range or highest calibration standard) and the calibration curve is known to exhibit a negative deflection.
M	When reporting chemical analyses: Presence of material is verified but not quantified; the actual value is less than the value given. The reported value shall be the laboratory Practical Quantitation Limit. This code shall be used if the level is too low to permit accurate quantification, but the estimated concentration is greater than the method detection limit. If the value is less than the method detection limit use "T" below. When reporting Oxygen Reduction Potential or Temperature: indicates a negative value.
N	Presumptive evidence of presence of material. This qualifier shall be used if: 1. The component has been tentatively identified based on mass spectral library search; 2. There is an indication that the analyte is present, but quality control requirements for confirmation were not met (i.e. presence of analyte was not confirmed by alternate procedures).
O	Sampled, but analysis lost or not performed. Note: if reporting data to the U.S. Environmental Protection Agency Water Quality Storage and Retrieval (STORET) data base, a numerical value must be entered. Such values are not meaningful and shall not be used.
Q	Sample held beyond the accepted holding time. This code shall be used if the value is derived from a sample that was prepared or analyzed after the approved holding time restrictions for sample preparation or analysis.
T	Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only, and shall not be used in statistical analysis.
U	Indicates that the compound was analyzed for but not detected. This shall be used to indicate that the specified component was not detected. The value associated with the qualifier shall be the laboratory method detection limit. Unless requested by the client, less than the method detection limit values shall not be reported (see "T" above).
V	Indicates that the analyte was detected in both the sample and the associated method blank. Note: the value in the blank shall not be subtracted from associated samples.

TABLE 12-2 Continued
DATA QUALIFIER CODES

Symbol:	Meaning:
Y	The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
Z	Too many colonies were present (TNTC), the numeric value represents the filtration volume.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. It is reported as actual result.
?	Data is rejected and should not be used. Some or all of the following quality control data for the analyte was outside criteria, and the correct concentration of the analyte cannot be determined from the data, due to this QC failure: 1. Surrogate recovery limits have been exceeded. 2. No known quality control criteria exists for the component. 3. The reported value failed to meet the established quality control criteria for either precision or accuracy. 4. The sample matrix interfered with the ability to make any accurate determination. 5. If the data is questionable because of improper laboratory or field protocols (e.g. composite sample was collected instead of a grab sample). Note: a "?" value shall be accompanied by justification for its use. A "?" value shall be used if, in the analyst's opinion, the data results are inaccurate because of a QC failure.
*	Not analyzed due to interference.

If more than one code applies, only one code shall be reported. The code shall be selected based on the following hierarchy:

?
***, O**
Y
V
B, K, L, M, I, U, T, Z
A, N, Q
J

TABLE 12-2 Continued
DATA QUALIFIER CODES

The following codes deal with certain aspects of field activities. The codes shall be used if the laboratory has knowledge of the specific sampling event. The codes shall be added by the organization collecting samples if they apply:

Symbol:	Meaning:
D	Measurement was made in the field (i.e. in-situ). This applies to any value (except pH, specific conductance, etc.) that was obtained under field conditions using approved analytical methods. Note: when data is to be entered into STORET, and the parameter code specifies a field measurement (e.g. "Field pH"), this code is not required.
E	Indicates that extra samples were taken at composite stations.
R	Significant rain in the past 48 hours. This code shall be used when the rainfall might contribute to a lower than normal value.
!	Data deviates from historically established concentration ranges.

PBSJ POST, BUCKLEY, SCHUH & JERNIGAN, INC.

FIELD LOGBOOK SAMPLING DATA SHEET

CLIENT: Buncombe County_
PROJECT/SITE NAME: c/o PBS&J Raliegh_
SITE ADDRESS: 3214 Spring Forest Rd._
FIELD CONTACT NAME/PHONE: Ed Hilton, (919) 876-6888
FIELD CONTACT ADDRESS: 3214 Spring Forest Rd._
SAMPLING PERSONNEL: Vanessa May , Paul Nero

SAMPLING LOCATION: EQ B1/C		SAMPLING DATE: 4/15/98	SAMPLING TIME: 9:35
SAMPLE TYPE: GRAB / COMPOSITE		SAMPLE MATRIX: FB	
WELL DIAMETER	in.	PURGE RATE	gal/min
TOTAL WELL DEPTH	ft.	PURGE START TIME	
DEPTH TO WATER	ft.	PURGE STOP TIME	
COLUMN HEIGHT	ft.	PURGING EQUIPMENT	
COLUMN VOLUME		SAMPLING EQUIPMENT / BAILER #	
MINIMUM PURGE VOLUME 3X OR 5X	Gallons	Column Volume (V) = 0.041 d^2h where: h = Column height (well depth-depth to water) d = diameter of well V = Volume of water	
ACTUAL PURGED VOLUME	Gallons		
WELL CONSTRUCTION MATERIAL		FIELD DECON PERFORMED PER PBS&J CQAP #910005?	YES / NO
FUEL POWER UNIT UTILIZED AND LOCATED DOWNWIND FROM SAMPLING LOCATION?	YES / NO	DECON AND CALIBRATION WASTE CONTAINED?	YES / NO
		PURGE WASTE CONTAINED?	YES / NO

SAMPLE APPEARANCE		ENVIRONMENTAL CONDITIONS	
TINT	Clear	AIR TEMPERATURE	15.6
COLOR	clear	WIND	slight
TURBIDITY	None	RAIN	None
ODOR	None	ATMOSPHERE	clear
SHEEN	None	OTHER	

FIELD PARAMETERS

TEMPERATURE (°C)	20.6			DISSOLVED OXYGEN (mg/L)	9.09		
CONDUCTIVITY (uMHOS/cm)	0			TURBIDITY (NTU)	0		
pH (UNITS)	6.48			SALINITY (ug/L)	0.00		

ADDITIONAL INFORMATION

Chain of Custody #:

VISITORS TO SITE?
PURPOSE OF VISIT?

NUMBER OF BOTTLES COLLECTED AND SAMPLING SEQUENCE

SAMPLE CONTAINERS RECEIVED PRE-CLEANED AND PRE-PRESERVED? YES / NO

TYPE OF CONTAINER	PRESERVATIVE	pH CHECKED AND ACCEPTABLE	NUMBER OF BOTTLES COLLECTED	SAMPLING SEQUENCE
Volatile Organic Compounds /EDB	HCl / Sodium Thiosulfate / None	Not Applicable	3/3	1/2
TRPH	H2SO4 to pH<2			
Oil & Grease	H2SO4 to pH<2			
Extractable Organics (semi-volatile)	None	Not Applicable		
Metals	HNO3 to pH<2		1	3
Phenols	H2SO4 to pH<2			
Cyanide	NaOH to pH>12			
Microbiological	None / Sodium Thiosulfate Tablets	Not Applicable		
Generals	None	Not Applicable		
Radionuclides	HNO3			
Nutrients	H2SO4 to pH<2			
Other:				
Other:				

QUALITY CONTROL SAMPLES

TYPE OF QC SAMPLE COLLECTED	
PREPARERS IDENTITY	
PLACE OF COLLECTION	

SURFACE WATER SAMPLES

DEPTH SAMPLES TAKEN	

IN-PLACE PLUMBING

PLUMBING CONSTRUCTION		FLOW RATE DURING PURGING	
TAP CONSTRUCTION		FLOW RATE DURING SAMPLE COLLECTION	
TIME WELL PURGED		PWSID#	

SIGNATURES OF SAMPLING PERSONNEL:

PBSJ POST, BUCKLEY, SCHUH & JERNIGAN, INC.

FIELD LOGBOOK SAMPLING DATA SHEET

CLIENT:	Buncombe County_
PROJECT/SITE NAME:	c/o PBS&J Raliegh_
SITE ADDRESS:	3214 Spring Forest Rd._
FIELD CONTACT NAME/PHONE:	Ed Hilton, (919) 876-6888
FIELD CONTACT ADDRESS:	3214 Spring Forest Rd._
SAMPLING PERSONNEL:	Vanessa May , Paul Nero

SAMPLING LOCATION:	MW2	SAMPLING DATE: 4/15	SAMPLING TIME: 1030
SAMPLE TYPE: GRAB / COMPOSITE		SAMPLE MATRIX: GW	
WELL DIAMETER	2 in.	PURGE RATE	1 gal/min
TOTAL WELL DEPTH	23.20 ft.	PURGE START TIME	10:30
DEPTH TO WATER	6.37 ft.	PURGE STOP TIME	10:45
COLUMN HEIGHT	16.83 ft.	PURGING EQUIPMENT	pool pump
COLUMN VOLUME	2.76	SAMPLING EQUIPMENT / BAILER #	
MINIMUM PURGE VOLUME 3X OR 5X	14 Gallons	Column Volume (V) = 0.041 d^2h where: h = Column height (well depth-depth to water) d = diameter of well V = Volume of water	
ACTUAL PURGED VOLUME	~15 Gallons		
WELL CONSTRUCTION MATERIAL	PVC	FIELD DECON PERFORMED PER PBS&J CQAP #910005?	YES / NO
FUEL POWER UNIT UTILIZED AND LOCATED DOWNWIND FROM SAMPLING LOCATION?	YES / NO	DECON AND CALIBRATION WASTE CONTAINED?	YES / NO
		PURGE WASTE CONTAINED?	YES / NO

SAMPLE APPEARANCE		ENVIRONMENTAL CONDITIONS	
TINT	Light	AIR TEMPERATURE	15.6
COLOR	Lt. Orange	WIND	Slight
TURBIDITY	Moderate	RAIN	none
ODOR	None	ATMOSPHERE	Clear
SHEEN	None	OTHER	

FIELD PARAMETERS							
TEMPERATURE (°C)	12.8			DISSOLVED OXYGEN (mg/L)	12.96		
CONDUCTIVITY (uMHOS/cm)	111			TURBIDITY (NTU)	[redacted]		
pH (UNITS)	6.20			SALINITY (ug/L)	0.00		

ADDITIONAL INFORMATION
Chain of Custody #: no lock, no cap

VISITORS TO SITE?
PURPOSE OF VISIT?

NUMBER OF BOTTLES COLLECTED AND SAMPLING SEQUENCE

SAMPLE CONTAINERS RECEIVED PRE-CLEANED AND PRE-PRESERVED? YES / NO

TYPE OF CONTAINER	PRESERVATIVE	pH CHECKED AND ACCEPTABLE	NUMBER OF BOTTLES COLLECTED	SAMPLING SEQUENCE
Volatile Organic Compounds EDB	HCl / Sodium Thiosulfate / None	Not Applicable	3/3	1
TRPH	H2SO4 to pH<2			
Oil & Grease	H2SO4 to pH<2			
Extractable Organics (semi-volatile)	None	Not Applicable		
Metals	HNO3 to pH<2		1	2
Phenols	H2SO4 to pH<2			
Cyanide	NaOH to pH>12			
Microbiological	None / Sodium Thiosulfate Tablets	Not Applicable		
Generals	None	Not Applicable		
Radionuclides	HNO3			
Nutrients	H2SO4 to pH<2			
Other:				
Other:				

QUALITY CONTROL SAMPLES

TYPE OF QC SAMPLE COLLECTED	
PREPARERS IDENTITY	
PLACE OF COLLECTION	

SURFACE WATER SAMPLES

DEPTH SAMPLES TAKEN	

IN-PLACE PLUMBING

PLUMBING CONSTRUCTION		FLOW RATE DURING PURGING	
TAP CONSTRUCTION		FLOW RATE DURING SAMPLE COLLECTION	
TIME WELL PURGED		PWSID#	

SIGNATURES OF SAMPLING PERSONNEL:

PBSJ POST, BUCKLEY, SCHUH & JERNIGAN, INC.

FIELD LOGBOOK SAMPLING DATA SHEET

CLIENT:	Buncombe County_
PROJECT/SITE NAME:	c/o PBS&J Raliegh_
SITE ADDRESS:	3214 Spring Forest Rd._
FIELD CONTACT NAME/PHONE:	Ed Hilton, (919) 876-6888
FIELD CONTACT ADDRESS:	3214 Spring Forest Rd._
SAMPLING PERSONNEL:	Vanessa May , Paul Nero

SAMPLING LOCATION: MW2D		SAMPLING DATE: 4/15	SAMPLING TIME: 11:40
SAMPLE TYPE: GRAB / COMPOSITE		SAMPLE MATRIX: GW	
WELL DIAMETER	2 in.	PURGE RATE	1 gal/min
TOTAL WELL DEPTH	68.6 ft.	PURGE START TIME	10:30
DEPTH TO WATER	6.77 ft.	PURGE STOP TIME	11:30
COLUMN HEIGHT	61.83 ft.	PURGING EQUIPMENT	pool pump
COLUMN VOLUME	10.1	SAMPLING EQUIPMENT / BAILER #	
MINIMUM PURGE VOLUME 3X OR (5X)	51 Gallons	Column Volume (V) = 0.041 d^2h where: h = Column height (well depth-depth to water) d = diameter of well V = Volume of water	
ACTUAL PURGED VOLUME	60 Gallons		
WELL CONSTRUCTION MATERIAL	PVC	FIELD DECON PERFORMED PER PBS&J CQAP #9100005?	(YES) / ~~NO~~
FUEL POWER UNIT UTILIZED AND LOCATED DOWNWIND FROM SAMPLING LOCATION?	(YES) / NO	DECON AND CALIBRATION WASTE CONTAINED?	~~YES~~ / (NO)
		PURGE WASTE CONTAINED?	YES / ~~NO~~

SAMPLE APPEARANCE		ENVIRONMENTAL CONDITIONS	
TINT	clear	AIR TEMPERATURE	19.6
COLOR	clear	WIND	none
TURBIDITY	clear	RAIN	none
ODOR	none	ATMOSPHERE	clear
SHEEN	none	OTHER	

FIELD PARAMETERS							
TEMPERATURE (°C)			15.9	DISSOLVED OXYGEN (mg/L)			11.5
CONDUCTIVITY (uMHOS/cm)			170	TURBIDITY (NTU)			<1
pH (UNITS)			6.69	SALINITY (ug/L)			0

ADDITIONAL INFORMATION
Chain of Custody #: no lock

V..SITORS TO SITE?
PURPOSE OF VISIT?

NUMBER OF BOTTLES COLLECTED AND SAMPLING SEQUENCE

SA..IPLE CONTAINERS RECEIVED PRE-CLEANED AND PRE-PRESERVED? YES / NO

TYPE OF CONTAINER	PRESERVATIVE	pH CHECKED AND ACCEPTABLE	NUMBER OF BOTTLES COLLECTED	SAMPLING SEQUENCE
Volatile Organic Compounds /EDB	HCl / Sodium Thiosulfate / None	Not Applicable	3/3	1/2
T..H	H2SO4 to pH<2			
O.. Grease	H2SO4 to pH<2			
..xtractable Organics (semi-volatile)	None	Not Applicable		
M..	HNO3 to pH<2		1	2
..ols	H2SO4 to pH<2			
..anide	NaOH to pH>12			
..crobiological	None / Sodium Thiosulfate Tablets	Not Applicable		
..nerals	None	Not Applicable		
..ionuclides	HNO3			
..ents	H2SO4 to pH<2			
..oer..				

QUALITY CONTROL SAMPLES

..OF QC SAMPLE ..ECTED	
..PARERS IDENTITY	
..ACE OF COLLECTION	

SURFACE WATER SAMPLES

..EPTH SAMPLES TAKEN	

IN-PLACE PLUMBING

..MBING CONSTRUCTION		FLOW RATE DURING PURGING	
..NSTRUCTION		FLOW RATE DURING SAMPLE COLLECTION	
..WELL PURGED		PWSID#	

..URES OF SAMPLING PERSONNEL: [illegible]

FIELD LOGBOOK SAMPLING DATA SHEET

PBSJ POST, BUCKLEY, SCHUH & JERNIGAN, INC.

CLIENT:	Buncombe County_
PROJECT/SITE NAME:	c/o PBS&J Raliegh_
SITE ADDRESS:	3214 Spring Forest Rd._
FIELD CONTACT NAME/PHONE:	Ed Hilton, (919) 876-6888
FIELD CONTACT ADDRESS:	3214 Spring Forest Rd._
SAMPLING PERSONNEL:	Vanessa May , Paul Nero

SAMPLING LOCATION:	MW-40	SAMPLING DATE: 4/15	SAMPLING TIME: 1000
SAMPLE TYPE: GRAB / COMPOSITE		SAMPLE MATRIX: GW	
WELL DIAMETER	2 in.	PURGE RATE	~2 (1.5) gal/min
TOTAL WELL DEPTH	58.1 ft.	PURGE START TIME	9:20
DEPTH TO WATER	11.9 ft.	PURGE STOP TIME	9:46
COLUMN HEIGHT	46.2 ft.	PURGING EQUIPMENT	pool pump
COLUMN VOLUME	7.58	SAMPLING EQUIPMENT / BAILER #	
MINIMUM PURGE VOLUME 3X OR 5X	38 Gallons	Column Volume (V) = 0.041 d^2h where: h = Column height (well depth-depth to water) d = diameter of well V = Volume of water	
ACTUAL PURGED VOLUME	~39 Gallons		
WELL CONSTRUCTION MATERIAL	PVC	FIELD DECON PERFORMED PER PBS&J CQAP #910005?	YES / NO
FUEL POWER UNIT UTILIZED AND LOCATED DOWNWIND FROM SAMPLING LOCATION?	YES / NO	DECON AND CALIBRATION WASTE CONTAINED?	YES / NO
		PURGE WASTE CONTAINED?	YES / NO

SAMPLE APPEARANCE		ENVIRONMENTAL CONDITIONS	
TINT	Clear	AIR TEMPERATURE	14.3
COLOR	none (clear)	WIND	none
TURBIDITY	Slight	RAIN	none
ODOR	none	ATMOSPHERE	foggy
SHEEN	none	OTHER	

FIELD PARAMETERS							
TEMPERATURE (°C)			13.2	DISSOLVED OXYGEN (mg/L)			13.4
CONDUCTIVITY (uMHOS/cm)			229	TURBIDITY (NTU)			61
pH (UNITS)			6.35	SALINITY (ug/L)			6

ADDITIONAL INFORMATION
Chain of Custody #: No locks on well

VISITORS TO SITE?
PURPOSE OF VISIT?

NUMBER OF BOTTLES COLLECTED AND SAMPLING SEQUENCE

SAMPLE CONTAINERS RECEIVED PRE-CLEANED AND PRE-PRESERVED? YES / NO

TYPE OF CONTAINER	PRESERVATIVE	pH CHECKED AND ACCEPTABLE	NUMBER OF BOTTLES COLLECTED	SAMPLING SEQUENCE
Volatile Organic Compounds / EDB	HCl / Sodium Thiosulfate / None	Not Applicable	3/3	1/2
TRPH	H2SO4 to pH<2			
Oil & Grease	H2SO4 to pH<2			
Extractable Organics (semi-volatile)	None	Not Applicable		
Metals	HNO3 to pH<2			
Phenols	H2SO4 to pH<2		1	2
Cyanide	NaOH to pH>12			
Microbiological	None / Sodium Thiosulfate Tablets	Not Applicable		
Generals	None	Not Applicable		
Radionuclides	HNO3			
Nutrients	H2SO4 to pH<2			
Other:				
Other:				

QUALITY CONTROL SAMPLES

TYPE OF QC SAMPLE COLLECTED	
PREPARERS IDENTITY	
PLACE OF COLLECTION	

SURFACE WATER SAMPLES

DEPTH SAMPLES TAKEN	

IN-PLACE PLUMBING

PLUMBING CONSTRUCTION		FLOW RATE DURING PURGING	
TAP CONSTRUCTION		FLOW RATE DURING SAMPLE COLLECTION	
TIME WELL PURGED		PWSID#	

SIGNATURES OF SAMPLING PERSONNEL:

PBSJ POST, BUCKLEY, SCHUH & JERNIGAN, INC.

FIELD LOGBOOK SAMPLING DATA SHEET

CLIENT:	Buncombe County_
PROJECT/SITE NAME:	c/o PBS&J Raliegh_
SITE ADDRESS:	3214 Spring Forest Rd._
FIELD CONTACT NAME/PHONE:	Ed Hilton, (919) 876-6888
FIELD CONTACT ADDRESS:	3214 Spring Forest Rd._
SAMPLING PERSONNEL:	Vanessa May , Paul Nero

SAMPLING LOCATION:	MW-4 2-Dup	SAMPLING DATE: 4/15	SAMPLING TIME: 9:40
SAMPLE TYPE: GRAB / COMPOSITE		SAMPLE MATRIX: GW	
WELL DIAMETER	2 in.	PURGE RATE	calibrated bucket ~2 gal/min
TOTAL WELL DEPTH	25.75 ft.	PURGE START TIME	9:07
DEPTH TO WATER	10.95 ft.	PURGE STOP TIME	9:19am
COLUMN HEIGHT	14.80 ft.	PURGING EQUIPMENT	pool pump/battery
COLUMN VOLUME	2.43	SAMPLING EQUIPMENT / BAILER #	
MINIMUM PURGE VOLUME 3X OR 5X	12.2 Gallons	Column Volume (V) = 0.041 d^2h where: h = Column height (well depth-depth to water) d = diameter of well V = Volume of water	
ACTUAL PURGED VOLUME	≈13 Gallons		
WELL CONSTRUCTION MATERIAL	PVC	FIELD DECON PERFORMED PER PBS&J CQAP #910005?	YES / NO
FUEL POWER UNIT UTILIZED AND LOCATED DOWNWIND FROM SAMPLING LOCATION?	YES / NO	DECON AND CALIBRATION WASTE CONTAINED?	YES / NO
		PURGE WASTE CONTAINED?	YES / NO

SAMPLE APPEARANCE		ENVIRONMENTAL CONDITIONS	
TINT	red	AIR TEMPERATURE	14.3
COLOR	orange	WIND	none
TURBIDITY	med	RAIN	none
ODOR	none	ATMOSPHERE	foggy
SHEEN	none	OTHER	

FIELD PARAMETERS

TEMPERATURE (°C)			12.3	DISSOLVED OXYGEN (mg/L)			12.1
CONDUCTIVITY (uMHOS/cm)			.197	TURBIDITY (NTU)			17
pH (UNITS)			6.03	SALINITY (ug/L)			0

ADDITIONAL INFORMATION

Chain of Custody #: No lock on well

VISITORS TO SITE?
PURPOSE OF VISIT?

NUMBER OF BOTTLES COLLECTED AND SAMPLING SEQUENCE

SAMPLE CONTAINERS RECEIVED PRE-CLEANED AND PRE-PRESERVED? YES / NO

TYPE OF CONTAINER	PRESERVATIVE	pH CHECKED AND ACCEPTABLE	NUMBER OF BOTTLES COLLECTED	SAMPLING SEQUENCE
Volatile Organic Compounds /EOB	HCl / Sodium Thiosulfate / None	Not Applicable	6/6	1/2
TRPH	H2SO4 to pH<2			
Oil & Grease	H2SO4 to pH<2			
Extractable Organics (semi-volatile)	None	Not Applicable		
Metals	HNO3 to pH<2		2	3
Phenols	H2SO4 to pH<2			
Cyanide	NaOH to pH>12			
Microbiological	None / Sodium Thiosulfate Tablets	Not Applicable		
Generals	None	Not Applicable		
Radionuclides	HNO3			
Nutrients	H2SO4 to pH<2			
Other:				
Other:				

QUALITY CONTROL SAMPLES

TYPE OF QC SAMPLE COLLECTED	
PREPARERS IDENTITY	
PLACE OF COLLECTION	

SURFACE WATER SAMPLES

DEPTH SAMPLES TAKEN	

IN-PLACE PLUMBING

PLUMBING CONSTRUCTION		FLOW RATE DURING PURGING	
TAP CONSTRUCTION		FLOW RATE DURING SAMPLE COLLECTION	
TIME WELL PURGED		PWSID#	

SIGNATURES OF SAMPLING PERSONNEL:

№ 3233

PBSJ ENVIRONMENTAL LABORATORIES
6635 East Colonial Drive
Orlando, FL 32807
Phone: (407)277-4443 FAX: (407)382-8794

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

☐ STANDARD TAT
☐ EXPEDITED TAT*
* SUBJECT TO RUSH FEES
REPORT DUE DATE: _____
REMARKS:

...e CNTY	P.O. NUMBER
	CLIENT PROJECT MANAGER: Ed Hilton
...TATE, ZIP	PROJECT NUMBER
SAMPLER(S) NAME(S)	PROJECT NAME: New Facility

STATION NO.	SAMPLING DATE	SAMPLING TIME	STATION/SITE IDENTIFICATION	GRAB (G) / COMPOSITE (C)	MATRIX: AQUEOUS	MATRIX: SOLID	MATRIX: AIR	MATRIX: OIL	GENERALS	METAL API MNC	NUTRIENTS	VOA API VNC	SEMIVOLATILE	CYANIDE	PHENOL	BACTERIA	GREASE AND OIL	OTHER EDB/DBCP	OTHER	LAB SAMPLE I.D.
	4/15	9:35	EQ B/K	✓	✓					1		3						3		9804301-01
		16:00	MW 2							1		3						3		02
		16:40	MW 2D							1		3						3		03
		9:40	MW 4							1		3						3		04
		10:00	MW 4D							1		3						3		05
		9:40	MW 4 Dup							1		3						3		06

NUMBER OF SAMPLE CONTAINERS SUBMITTED

	DATE	TIME		DATE	TIME		DATE	TIME
1. RELINQUISHED BY: (SIGNATURE) [signature]	4/15/98	13:00	3. RELINQUISHED BY: (SIGNATURE) [signature]	4/17/98	0950	5. RELINQUISHED BY: (SIGNATURE)		
2. RECEIVED BY: (SIGNATURE)			4. RECEIVED BY: (SIGNATURE)			6. RECEIVED BY: (SIGNATURE)		

	DATE	TIME					
RECEIVED IN LABORATORY BY: (SIGNATURE) [signature]	4/17/98	0950	LABORATORY USE ONLY: CONTAINERS INTACT? ☐ YES ☐ NO	CUSTODY SEAL INTACT? ☐ YES ☐ NO	SAMPLE CONTAINERS PREPARED BY:		
LABORATORY REMARKS: [signature] Rec @ 2°C					SAMPLE CONTAINERS CHECKED BY:		

Field Parameters

Station Number	pH (s.u.)	Conductivity (umhos/cm)	DO (mg/L)	Cl2 (mg/L)	Temperature (deg. cent.)	Salinity (o/oo)

Additional Remarks