

APPENDIX B

CABARRUS ACRES

- A. SIMPLE MAP OF SYSTEM SHOWING
THE LOCATION OF EACH WELL,
WITH WELLS IDENTIFIED

FILED CONFIDENTIALLY

APPENDIX B

CABARRUS ACRES

**B. DEH/PWSS APPROVAL LETTER
FOR EACH WELL**



JAMES E. HOLSINGER, JR.
GOVERNOR
PHILLIP J. KIRK, JR.
SECRETARY

STATE OF NORTH CAROLINA
DEPARTMENT OF HUMAN RESOURCES
Division of Health Services

JACOB KOOMEN, M.D., M.P.H.
DIRECTOR

P. O. Box 2091 Raleigh 27602

June 7, 1976

Mr. H. O. Honeycutt, President
H & A Water Service, Incorporated
Post Office Box 242
Locust, North Carolina 28097

Re: Water System
Cabarrus Acres Mobile Home Park,
Section 2
Cabarrus County

Dear Mr. Honeycutt:

Plans and specifications for the referenced project prepared by E. W. McCulloch, P. E. have been reviewed by engineers of this Section. The plans call for a well, well house, chlorination apparatus, 2,000 gallon hydropneumatic storage facilities, 3-inch and 2-inch distribution piping, valves and other appurtenances. These plans and specifications are approved under Division of Health Services serial number 956, dated June 4, 1976. This approval is for the first 49 connections only. Further connections beyond 49 will necessitate the development of additional sources of water supply.

One copy of the "Application for Approval..." is enclosed together with one copy of the plans and specifications bearing the Division of Health Services stamp of approval. One copy of each is being forwarded to the Cabarrus County Health Department. The third copy is being retained in our permanent files.

If we can be of further service, please call on us.

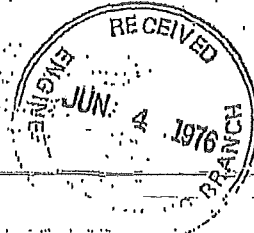
Very truly yours,

Marshall Staton
Marshall Staton, Chief
Sanitary Engineering Section

Enclosures

cc: Mr. E. D. Herndon
Mr. E. W. McCulloch, P. E.,
Cabarrus County Health Department
Mr. Dave Greasy

North Carolina State Board of Health



Application For Approval of Plans
And Specifications For Water Supply
And Wastewater Treatment Systems

DATE June 4, 1976

SERIAL NO. 956

To: The North Carolina State Board of Health:

The H and A Water Service, Inc. Locust, N.C.
(name of board or council, authorized official and title, or owner)

of Cabarrus Acres, Section 2, Mobile Home Park, Rt. 2, Midland, N.C.
(name of city, town, corporation, sanitary district, water company, or other)

in the County of Cabarrus State of North Carolina authorized by law to

act for the said H and A Water Service, Inc.
(name of city, town, corporation, sanitary district, water company, or other)

and to expend its funds for water or wastewater treatment systems, herewith submit for the counsel and advice of the State Board of Health plans and specifications prepared by E.W. McCulloch, P.E.
(engineer or firm)

Route 1, Box 96 of Gold Hill, N.C.

for the installation or construction of portable underground water system for a mobile home
(describe project)

park approximately 7.5 miles west of Locust, N.C. in
(location of project)

Cabarrus and herewith make application to the State Board of Health
(county)

for the approval of such feature of said plans and specifications as relate to public health and the protection of public water supplies.

These plans have been approved and accepted by the applicant.

This application is made under and in full accord with the provisions of Chapter 130, Article 13, of the North Carolina General Statutes, and such other statutes as relate to water and wastewater systems.

The applicants agree that insofar as the aforesaid public health features of the proposed improvements provided for in the said plans and specifications are concerned, no changes or deviation from the plans and specifications approved by the State Board of Health will be made except with the written consent and approval of the State Board of Health or its authorized representative.

Remarks: _____

Signature:

H.C. Honeycutt

H.C. Honeycutt, President
H and A Water Service, Inc.
(Owner, Manager, Mayor, or Chairman)

P.O. Box 242
(Street or Box Number)

Locust, N.C. 28097

City State Zip Code

These plans and specifications cited in the foregoing applications are hereby approved insofar as the protection of public health and public water supplies is concerned under authority of Chapter 180, Article 13, of the General Statutes, with the following provisos:

This approval is given with the understanding that upon the installation of such works, its operation shall be placed under the care of a competent person, and the operation shall be carried out according to best accepted practice and in accordance with the recommendations of the State Board of Health.

The official copies of plans and specifications accompanying this application have been sealed and stamped with the serial number of this application 956. Only such plans and specifications are included in this approval and any erasures, additions or alterations affecting the efficiency of operation or public health protective value of the proposed improvements will make such approval null and void.

Signed: Marshall Staton
Marshall Staton, Chief
Title: Sanitary Engineering Section



JAMES E. HOLSINGER, JR.
GOVERNOR

PHILLIP J. KIRK, JR.
SECRETARY

STATE OF NORTH CAROLINA
DEPARTMENT OF HUMAN RESOURCES
Division of Health Services

JACOB KOOMEN, M.D., M.P.H.
DIRECTOR

P. O. Box 2081

Raleigh 27602

June 7, 1976

Mr. H. C. Honeycutt, President
H & A Water Service, Incorporated
Post Office Box 242
Locust, North Carolina 28097

Re: Water System
Gabarrus Acres Mobile Home Park,
Section 2
Gabarrus County

Dear Mr. Honeycutt:

Plans and specifications for the referenced project prepared by E. W. McCulloch, P. E. have been reviewed by engineers of this Section. The plans call for a well, well house, chlorination apparatus, 2,000 gallon hydropneumatic storage facilities, 3-inch and 2-inch distribution piping, valves and other appurtenances. These plans and specifications are approved under Division of Health Services serial number 956, dated June 4, 1976. This approval is for the first 49 connections only. Further connections beyond 49 will necessitate the development of additional sources of water supply.

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If we can be of further service, please call on us.

Very truly yours,


Marshall Stacon, Chief
Sanitary Engineering Section

Enclosures

cc: Mr. E. D. Herndon
Mr. E. W. McCulloch, P. E.
Gabarrus County Health Department
Mr. Dave Greasy

OFFICIAL COPY

Sep 01 2021

GABARRUS ACRES - SECTION 2
MOBILE HOME PARK
GABARRUS COUNTY



156
180
288

SPECIFICATIONS FOR AN EXISTING
MOBILE HOME PUBLIC WATER
SUPPLY SYSTEM

Approved by
Department of Human Resources
Division of Health Services
Sanitary Engineering Section
Serial No. 75-16
Date 6-4-76
By [Signature]

For
H. and A. Water Service, Inc.
P. O. Box 242
Rochester, N. C. 28097

Subject to Approval By
THE SANITARY ENGINEERING DIVISION
STATE BOARD OF HEALTH
DEPARTMENT OF HUMAN RESOURCES
P. O. BOX 2091, RALEIGH, N. C.

May 3, 1976

Drawings, Design, Engineering
E. W. McCulloch, P. E.
Route 1, Box 96
Gold Hill, N. C. 28071

SPECIFICATION CONTENTS

- 1.0 General
- 2.0 Well, Pumping, Facilities
 - Summary Design Data
 - Well Data and Pump Specifications
 - Well Test Results
 - Chemical Analysis Test Results
- 3.0 Storage Tank

- 4.0 Chlorination
- 5.0 Underground piping
- 6.0 Gate Valves
- 7.0 Electrical
- 8.0 Disinfecting New Water Lines
- 9.0 Disinfecting New Well
 - Drawings-Typical User's Valve Box
 - Pump Control Wiring

L.0 GENERAL

The accompanying drawings and together with these following written specifications cover an existing, and to be expanded, portable water supply system located in Cabarrus County approximately 7.5 miles west of Locust, N. C. and near the intersection of NC 27 and US 601.

The plans call for a maximum of 49 connections to be served from a single existing high yield well constructed in March 1974.

The H and A Water Service, Inc., of Locust, N. C. owner of the water rights of the development, proposes to operate, expand and maintain the water system as required by the State Board of Health regulating public water systems.

The above water system when completed shall meet the standards and design guide lines as set forth by North Carolina GS 130-161.1 covering public water supply systems, constructed or modified on or after January 1, 1972.

Approval of these drawings and specifications and including any attached provisos, by the Engineering Planning Divisions of the State Board of Health, binds the owner of the water system herein described to carry out such plans to the systems completion.

2.0 WELL, PUMPING, FACILITIES

The source of water for the Mobile Home Development shall be supplied from a single existing well, located on an approved, well drained well lot which is owned and controlled by the owner of the water rights for the development.

Two other existing wells located on well lots not acceptable or approved shall not be used with the water system.

The maximum number of taps, connections or users shall be limited to 49 total. The well as described in this proposal shall be pumped by a 5 horsepower 13 stage submersible pump. Storage shall be 2000 gallon, epoxy inside coated, 100 PSIG test, outdoor pressure tank.

The pumping controls shall be set to operate on a 40-60 PSIG cycle at the tank. The water system shall be constructed and adjusted to provide 25 percent tank drawdown using automatic air-water volume controls. Included with these specifications are the results of a recent well pump test to determine well yield and draw down. Performance data on the permanently installed pump are attached to this report.

A small masonry constructed well house shall protect the valving, chlorinating apparatus, and electrical equipment and controls.

SUMMARY DESIGN DATA

System or Development Cabarrus Acres - Section 2 County Cabarrus

Owner of Water Rights H and A Water Service, Inc., Locust, N. C.

Type of Water System Portable Underground - Mobile Home

Total Taps or Connections 49

Total Water requirements @ 250 GPD 12,250 Gallons

Well Yield (24-hr. Test) 74 GPM

Total Water Well Yield @ 12 hr. Pumping Time 53,280 Gallons

Twenty minutes Peak Demand 60 GPM

Effective Tank Storage Volume Required None Gallons

Actual Tank Storage Volume

Required based on a 40-60 PSIG tank drawdown 2000 Gallons

Actual Tank Volume Specified 2000 Gallons

WELL DATA AND PUMP SPECIFICATIONS

WELL NO. 1

Total Drilling Depth 260 ft.
 Casing: Depth 32 ft.
 Diameter 6 1/2 in. ID
 Above fin. concrete 12 in.

~~Static Water Level (below top casing) 23 ft.~~

Well Yield (drill. contr. air-blow test log) 74 GPM
 (24-hour pumping test) 74 GPM

Drilling Contractor Baucomb Well Drilling, Union County, N. C.

Date March 1974

Pump Type Submersible

Horsepower 5

Drop Pipe or Discharge Outlet 2 in.

Stages or Pump End 13

Power Volts - 240
 Phase - 1
 Frequency - 60

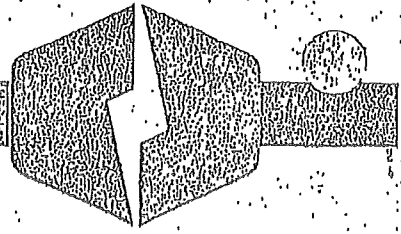
Maximum drawdown @ 40 PSIG and 74 GPM
 Below Static Level 44 ft.
 Below top of casing 67 ft.

Depth to Pump Intake 210 ft.

Pumping Capacity (40 PSIG and 140 ft. total head) 72 GPM

Pressure Tank 2000 Gallons
 (furnished with air charging and automatic air-water
 volume control for 25% tank drawdown)

Note: Use bleeder orifice valve in drop pipe and air ejector at tank.

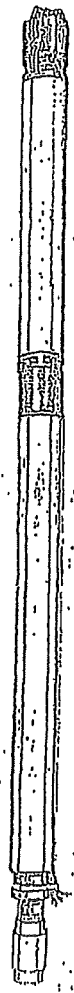
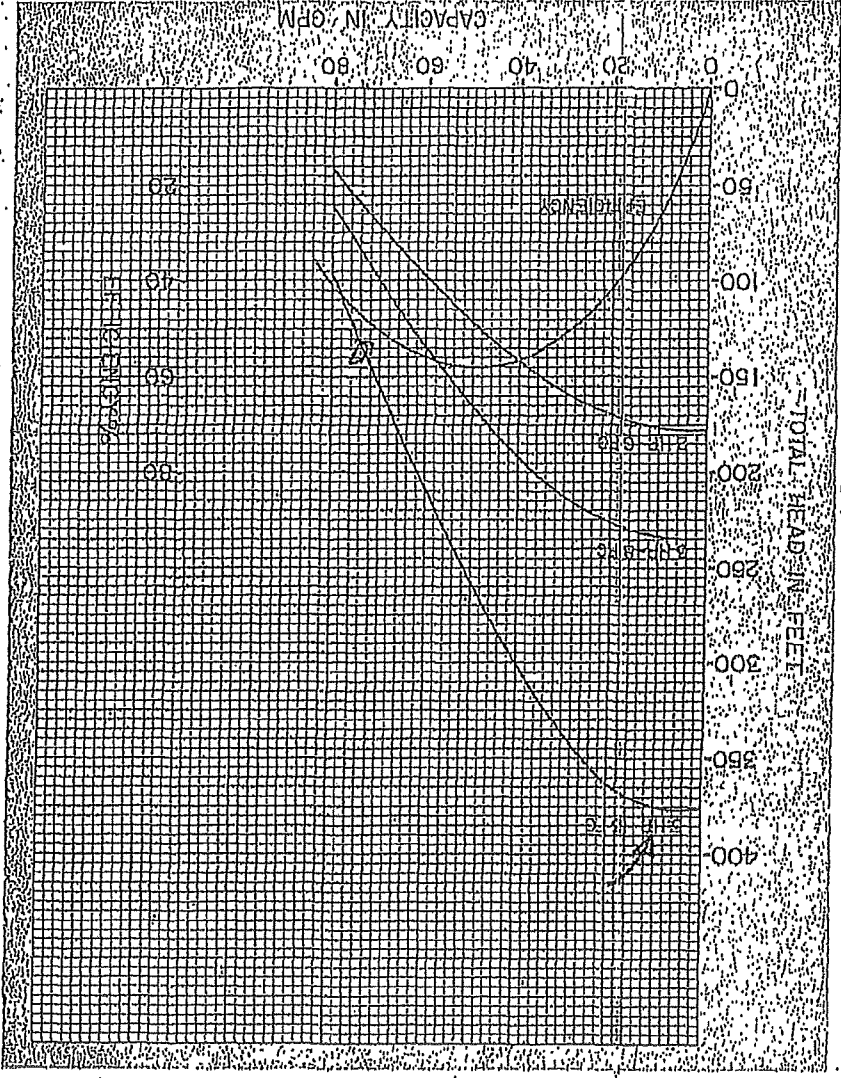


RED JACKET® 50 GPM SERIES "FC" Simplex PUMPS BIG-FLO

DESIGNED FOR BIG CAPACITIES
FROM LOW WATER LEVELS

The "Engineered Simplicity" design of impeller together with stage combination and horsepower allow the 50 GPM Series to pump high capacities from water levels as low as 320 feet. This is particularly applicable where large capacities are needed for farms or multiple home installations. Series "FC" pumps can be installed in four-inch wells.

PERFORMANCE CURVES FOR 50 GPM SERIES "FC"



RED JACKET DIV. WEIL-MCLAIN CO., INC.
DAVENPORT, IOWA

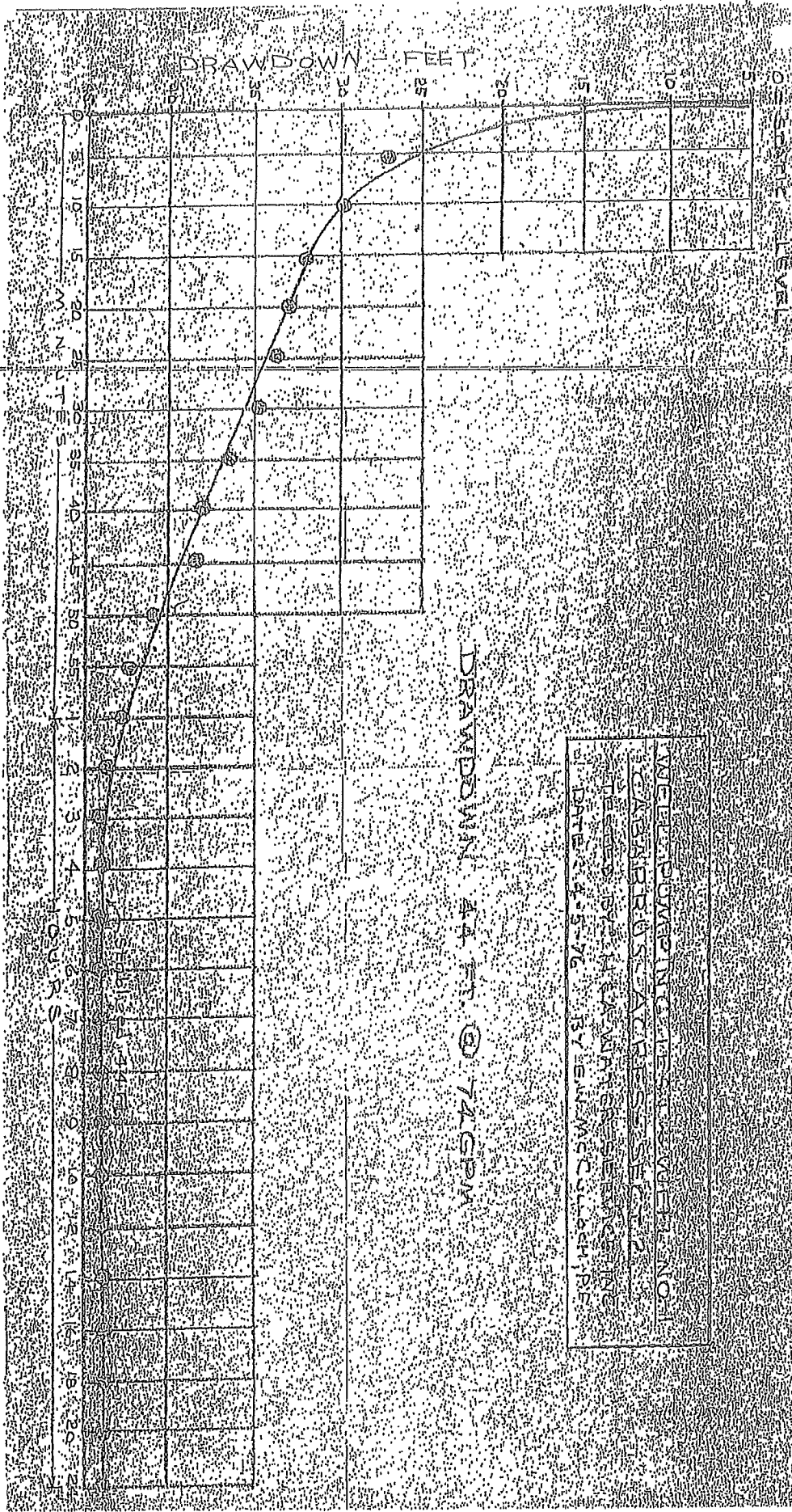
MODEL 50 GPM "FC"

STAGE "FC" SERIES

DATE 12-30-68

GUARANTEED AS MINIMUM PERFORMANCE ONLY IF CERTIFIED

MINIMUM WELL SIZE: 4" I. D.



DRAWDOWN AT 11.0 @ 74 GPM

WELLS DEVELOPMENT, INC. 11011
 CARRIERS AVENUE
 THE WOODS, TEXAS 75069
 DATE: 4-5-76 BY: ENAM/C/S/LSH/PL

APPENDIX B

CABARRUS ACRES

**C. ORIGINAL INORGANIC ANALYSIS FOR EACH WELL
SUBMITTED TO DEH FOR WELL APPROVAL**

NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES
 CHEMICAL ANALYSIS OF WATER
 Division of Health Services, Laboratory Section
 P. O. Box 28047, Raleigh, North Carolina 27611

Complete all items above Heavy Line
 (see instructions on reverse side)

Name of Owner or Supply: Cabarrus Acres Mobile Home
 Address: Route #3, Midland
 Well No. _____

Type of Supplier:
 1-Municipal
 2-Sanitary District
 3-Mobile Home Park
 4-Community
 5-Association
 6-Industrial
 7-Institution
 8-Private
 9-Other

County: Cabarrus

Source of Water:
 1-Ground
 2-Surface
 3-Both
 4-Purchased

Report to: H & A Water Service, Inc.

Source of Sample:
 1-Well tap
 2-House Tap
 3-Distribution Tap

Address: P.O. Box 242, Locust, N. C.

Collected by: H. C. Honeycutt

Type of Sample:
 1-Raw
 2-Treated

Date Collected: 3-25-76 Time: 11:00 A.M.

Type of Treatment:
 0-None
 1-Chlorinated
 2-Fluoridated
 3-Filtered
 4-Alum
 5-Lime
 6-Soda Ash
 7-Polyphosphate
 8-Water Softener
 9-Other

Remarks: Please send (1) report to:
Mr. Harold Saylor
Dept. of Human Resources
Black Mountain, N. C.

Analysis Desired:
 1-Complete analysis (18 tests)
 2-Partial analysis (9 tests)

ANALYSIS

Color (000)	0	units	Ph	(00.0)	7.9
Results in Parts per Million					
Alkalinity CaCO ₃ (000)	85		Fluoride	(0.00)	0.18
Total Hardness (000)	77		Arsenic	(*0.00)	< 0.01
Iron (*00.00)	0.17		Cadmium (*0.00)		< 0.01
Manganese (*00.00)	< 0.03		Chromium (*0.00)		< 0.05
Turbidity SiO ₂ (000)	0.3		Copper (*00.00)		< 0.05
Acidity CaCO ₃ (000)	8		Lead (*0.00)		< 0.05
Chloride (000)	3		Zinc (*00.00)		0.78
Sodium (000)	9		Calcium		23.5
Potassium (00.0)	4.0		Magnesium		4.5

Date received: March 29, 1976
 Date analyzed: _____

Date reported: March 31, 1976
 Reported by: _____
 Lab. No.: 07986

3.0 STORAGE TANKS

Storage Tanks are steel and approved for outdoor use.

Outside of tanks shall be prime coated with a rust inhibitor and finished with a reflective aluminum paint.

Tanks shall be equipped with clean-out ports, 3 inch threaded inlet and outlet openings, and sufficient

threaded openings for pressure gage, draining and spigots.

Tanks shall be supported above ground with masonry foundations.

4.0 CHLORINATION

Water shall be chlorinated before entering storage tank by an adjustable feed Diaphragm Pump tanking liquid hypochlorite solution from a plastic tank.

Pumping range shall be adjustable from zero to a maximum of 20 gallons per day. Pump shall be designed to operate against a back pressure of 100 psig.

Discharge line shall be black $\frac{1}{2}$ in by $\frac{3}{8}$ in. and at the point of attachment to the water line supplied with a check valve body and valve for connecting to a $\frac{1}{2}$ in. fitting in a line. Suction line shall be clear plastic and supplied

with a liquid strainer on the end with lies in the solution tank. Water test samples shall be made available from a $\frac{1}{2}$ in. spigot installed in a tee fitting between the point of the solution entrance and the well storage tank gate valve.

Control of the diaphragm solution pump shall be as follows.

When well pump starter is energized from pressure control switch, an electrical circuit is energized providing 120 volts to diaphragm pump. An override stop switch shall be installed ahead of the diaphragm pump in preference to an attachment plug and receptacle. Wiring to the pump shall

include a grounding conductor assuring a bond between pump frame and metal piping system.

5.0 UNDERGROUND PIPING

Underground piping, couplings, adapters, tees, ells etc. shall be PVC tested for 160 psig. Approved cement shall be used in making all watertight connections. The minimal below grade depth on all piping shall not be less than 36 inches. All PVC pipe shall bear the National Foundation stamp of approval. No piping less than 2 in. inside diameter shall serve as distribution mains.

6.0 GATE VALVES

Street main gate valves shall be provided as shown on Sheet No. 1 (Piping Plan). The valves shall be of brass body. Each underground valve in the main supply lines shall be protected and surrounded by an adjustable height cone-shaped iron housing and a grade level top cover. Valves shall be operated from street level by the use of a remote valve control extension tool. Service valves shall be provided at the property line of each user. Such valves shall be 3/4 in. brass and shall be accessible and protected by a precast concrete water meter housing installed flush to the finished grade. The shape or contour of the housing shall be such that the box will not sink below grade.

7.0 ELECTRICAL

Each well site shall receive metered 240/120 volts, 3 wire SN power service delivered to a point next to the well house. An outdoor type WP, 30 amp, 2-pole circuit breaker shall be installed adjacent to the meter. The neutral wire from the incoming power service shall be grounded to the nearest galvanized piping to the well head with

A size No. 8 gauge copper stranded wire.

A 15 Amp., 1-pole circuit breaker shall be installed in the well house to supply a lighting outlet and a general use receptacle.

All wiring shall be installed in a protective raceway (EMT or rigid conduit). Wiring shall be installed

in accordance with the N.E.C. and subjected to the local electrical inspector.

8.0 DISINFECTING NEW WATER LINES

The new water line should be tapped on top at the far end and an air cock installed of sufficient size to release any air that may be entrapped in the line when filled. After testing the new lines are to be flushed thoroughly to remove all dirt and debris which has collected in the pipe line.

The valve at the end of the line should then be closed and the valve between the new pipe line and the municipal water system opened slightly to allow water entering the pipe slowly. Chlorine is then applied under pressure by ejector pump or equal to the water entering the pipe line through a tap located in the pipe at the influent valve in a concentration that will give an over-all chlorine residual to the water of at least 50 ppm. After the chlorine has been applied to the water, the pipe line is to be valved off and the chlorine water allowed to remain in the line for twenty-four hours. At the end of this period, the chlorine residual

should be at least 10 ppm. The line should then be thoroughly flushed until there is only a normal chlorine residual present, as determined by the ortho-tolidine test. Several samples of water should be collected from various points along the line for bacteriological analysis. If satisfactory results are obtained the line or lines may then be placed in service.

9.0 DISINFECTING NEW WELL

A well should be disinfected by adding chlorine in sufficient quantities to produce a residual of 50 ppm.

It is important that the chlorine be thoroughly dispersed. In order for the chlorine to reach the bottom of the well, it is suggested that the chlorine solution

be added through the chemical feed line. If such a line has not been installed the chlorine solution may be applied through a hose which will reach to the bottom of the well.

Where possible after adding the chlorine the interior of the casing, pump column, etc., should be thoroughly agitated by intermittently starting and stopping the pump motor at 15-second intervals.

The chlorine should remain in the well for a minimum of twenty-four hours, after which time the well should be pumped until there is no evidence of chlorine present, as to be determined by the orthotolidine test. Several water samples should be collected and if satisfactory results are obtained, the well may be placed in service.

APPENDIX B

CABARRUS ACRES

**D. ALL INORGANIC ANALYSES FROM EACH WELL AT THE
WELLHEAD FOR THE LAST SIX YEARS**

Environmental Conservation Laboratories, Inc.
 102-A Woodwinds Industrial Court
 Cary, NC 27511
 Ph: (919) 467-3090 Fax: (919) 467-3515



www.encolabs.com

OFFICIAL COPY

Sep 01 2021

INORGANIC CHEMICAL ANALYSIS

WATER SYSTEM ID #: **01-13-146** County: **Cabarrus**

Name of Water System: **CABARRUS ACRES**

Sample Type: Entry Point Special/Non-compliance

Location Where Collected: **Well: 1(IOC) - CABARRUS ACRES(18) - CORNER OF STERLING AND CRYSTAL**

Facility ID No: **P01**

Location Code: **E01**

Collected By: **MARTIN DEEM**

Mail Results to:

Aqua NC - Denver (AQ004)

Attn: Debbie Dycus

4163 Sinclair Street

Denver, NC 28037

Collection Date	Collection Time
02/03/21	01:38 pm

Phone #: **(704) 489-9404**

Fax #: **(704) 489-9409**

LABORATORY ID #: 37724

SAMPLE UNSATISFACTORY

RESAMPLE REQUIRED

CONTAM CODE	CONTAMINANT	METHOD CODE	REQUIRED REPORTING LIMIT (R.R.L.)	NOT DETECTED (i.e < R.R.L.) (X)	QUANTIFIED RESULTS*	ALLOWABLE LIMIT
1005	Arsenic	200.8	0.005 mg/L	X	mg/L	0.01 mg/L
1010	Barium	200.8	0.4 mg/L	X	mg/L	2 mg/L
1015	Cadmium	200.8	0.001 mg/L	X	mg/L	0.005 mg/L
1020	Chromium	200.8	0.02 mg/L	X	mg/L	0.1 mg/L
1024	Cyanide (total)	335.4	0.05 mg/L	X	mg/L	0.2 mg/L
1025	Fluoride	300.0	0.1 mg/L		0.26 mg/L	4 mg/L
1028	Iron	200.7	0.06 mg/L		2.09 mg/L	0.3 mg/L
1032	Manganese	200.8	0.01 mg/L		0.215 mg/L	0.05 mg/L
1035	Mercury	245.1	0.0004 mg/L	X	mg/L	0.002 mg/L
1036	Nickel	200.8	0.1 mg/L	X	mg/L	N/A
1045	Selenium	200.8	0.01 mg/L	X	mg/L	0.05 mg/L
1052	Sodium	200.7	1 mg/L		49.7 mg/L	N/A
1055	Sulfate as SO4	300.0	5 mg/L		74 mg/L	250 mg/L
1074	Antimony	200.8	0.003 mg/L	X	mg/L	0.006 mg/L
1075	Beryllium	200.8	0.002 mg/L	X	mg/L	0.004 mg/L
1085	Thallium	200.8	0.001 mg/L	X	mg/L	0.002 mg/L
1925	pH	4500H-B	N/A	N/A	7.5 units	6.5-8.5 units

*Note: Except for Iron and Manganese, if result exceeds allowable limit, the laboratory must fax analytical results to the State within 48 hours.

	DATE:	TIME:
ANALYSES BEGUN:	02/08/2021	3:50 pm
ANALYSES COMPLETED:	02/16/2021	9:27 am

Laboratory Log #: **CD18269-01**

Certified By:

Bill Scott

Bill Scott

COMMENTS:

Environmental Conservation Laboratories, Inc.
 102-A Woodwinds Industrial Court
 Cary, NC 27511
 Ph: (919) 467-3090 Fax: (919) 467-3515



www.encolabs.com

years
1621

INORGANIC CHEMICAL ANALYSIS

WATER SYSTEM ID #: 01-13-146 County: Cabarrus

Name of Water System: CABARRUS ACRES

Sample Type: Entry Point Special/Non-compliance

Location Where Collected: Well: 1(IOC) - CABARRUS ACRES(18) - CORNER OF STERLING AND CRYSTAL

Facility ID No: P01

Location Code: E01

Collected By: MARTIN DEEM

Mail Results to:

Aqua NC - Denver (AQ004)

Attn: Debbie Dycus

4163 Sinclair Street

Denver, NC 28037

Collection Date

Collection Time

02/13/18

11:00 am

Phone #: (704) 489-9404

Fax #: (704) 489-9409

LABORATORY ID #: 37724

SAMPLE UNSATISFACTORY

RESAMPLE REQUIRED

CONTAM CODE	CONTAMINANT	METHOD CODE	REQUIRED REPORTING LIMIT (R.R.L.)	NOT DETECTED (i.e. < R.R.L.) (X)	QUANTIFIED RESULTS*	ALLOWABLE LIMIT
1005	Arsenic	200.8	0.005 mg/L	X	mg/L	0.01 mg/L
1010	Barium	200.8	0.4 mg/L	X	mg/L	2 mg/L
1015	Cadmium	200.8	0.001 mg/L	X	mg/L	0.005 mg/L
1020	Chromium	200.8	0.02 mg/L	X	mg/L	0.1 mg/L
1024	Cyanide (total)	335.4	0.05 mg/L	X	mg/L	0.2 mg/L
1025	Fluoride	300.0	0.1 mg/L		0.21 mg/L	4 mg/L
1028	Iron	200.7	0.06 mg/L		48 mg/L	0.3 mg/L
1032	Manganese	200.8	0.01 mg/L		0.170 mg/L	0.05 mg/L
1035	Mercury	245.1	0.0004 mg/L	X	mg/L	0.002 mg/L
1036	Nickel	200.8	0.1 mg/L	X	mg/L	N/A
1045	Selenium	200.8	0.01 mg/L	X	mg/L	0.05 mg/L
1052	Sodium	200.7	1 mg/L		46.5 mg/L	N/A
1055	Sulfate as SO4	300.0	5 mg/L		71 mg/L	250 mg/L
1074	Antimony	200.8	0.003 mg/L	X	mg/L	0.006 mg/L
1075	Beryllium	200.8	0.002 mg/L	X	mg/L	0.004 mg/L
1085	Thallium	200.8	0.001 mg/L	X	mg/L	0.002 mg/L
1925	pH	4500H-B	N/A	N/A	7.7 units	6.5-8.5 units

*Note: Except for Iron and Manganese, if result exceeds allowable limit, the laboratory must fax analytical results to the State within 48 hours.

	DATE:	TIME:
ANALYSES BEGUN:	02/19/2018	12:47 pm
ANALYSES COMPLETED:	02/28/2018	1:30 pm

Laboratory Log #: CA17970-01

Certified By: Bill Scott Bill Scott

COMMENTS:



Pace Analytical Services,
8 East Tower C
Ormond Beach, FL 32136
Phone: (386) 672-1111
Fax: (386) 673-1111

INORGANIC CHEMICAL ANALYSIS

Note: All information must be supplied for compliance credit.

WATER SYSTEM ID#: 01-13-146

County: Cabarrus

Name of Water System: Cabarrus Acres

Sample Type: Entry Point Non-compliance

Location Where Collected: Well #1

Facility ID No.: P 0 1

Sample Point: E-0-1

Collection Date

Collection Time

02/04/15
(MM/DD/YY)

11:00, A.M.
(Specify AM or PM)

Collected By: Marty Deem
(Please Print)

Mail Results to (water system representative):

Phone #: (704) 489-9404

Debbie Gentry

Fax #: (704) 489-9409

4163 Sinclair St.

Responsible Person's email:

Denver, NC 28037

dagentry@aquamerica.com

LABORATORY ID #: 12710

SAMPLE UNSATISFACTORY

RESAMPLE REQUIRED

CON/TAM CODE	CONTAMINANT	METHOD CODE	REQUIRED REPORTING LIMIT (R.R.L.)	NOT DETECTED (i.e. < R.R.L.) (N)	QUANTIFIED RESULTS*	ALLOWABLE LIMIT
1005	Arsenic	200.8	0.005 mg/L	<input checked="" type="checkbox"/>	0.0020 mg/L	0.010 mg/L
1010	Barium	200.7	0.400 mg/L	<input checked="" type="checkbox"/>	0.070 mg/L	2.000 mg/L
1015	Cadmium	200.7	0.001 mg/L	<input checked="" type="checkbox"/>		0.005 mg/L
1020	Chromium	200.7	0.020 mg/L	<input checked="" type="checkbox"/>		0.100 mg/L
1024	Cyanide	335.4	0.050 mg/L	<input checked="" type="checkbox"/>		0.200 mg/L
1025	Fluoride	200.0	0.100 mg/L	<input type="checkbox"/>	0.3400 mg/L	4.000 mg/L
1028	Iron	200.7	0.060 mg/L	<input type="checkbox"/>	0.9100 mg/L	0.300 mg/L
1032	Manganese	200.7	0.010 mg/L	<input type="checkbox"/>	0.1900 mg/L	0.050 mg/L
1035	Mercury	235.1	0.0004 mg/L	<input checked="" type="checkbox"/>		0.002 mg/L
1036	Nickel	200.7	0.100 mg/L	<input checked="" type="checkbox"/>		N/A
1045	Selenium	200.8	0.010 mg/L	<input checked="" type="checkbox"/>		0.050 mg/L
1052	Sodium	200.7	1.0 mg/L	<input type="checkbox"/>	44.8000 mg/L	N/A
1055	Sulfate	300.0	15.0 mg/L	<input type="checkbox"/>	69.6000 mg/L	250.0 mg/L
1074	Antimony	200.8	0.003 mg/L	<input checked="" type="checkbox"/>		0.006 mg/L
1075	Beryllium	200.7	0.002 mg/L	<input checked="" type="checkbox"/>		0.004 mg/L
1085	Thallium	200.8	0.001 mg/L	<input checked="" type="checkbox"/>		0.002 mg/L
1925	pH	4500H-B	N/A	<input type="checkbox"/>	7.3000 units	6.5-8.5

*Note: Except for Iron, Manganese, and Sulfate, if result exceeds allowable limit, the laboratory must fix analytical results to the time within 48 hours.

ANALYSES BEGUN: 02/08/15 07:38 P.M.
DATE: TIME:
ANALYSES COMPLETED: 02/13/15 06:12 P.M.
DATE: TIME:

Laboratory Log #: 92236300001

Certified By: Taylor Ezell

(Print and sign name)

COMMENTS:

APPENDIX B

CABARRUS ACRES

- E. COPIES OF ALL IRON AND/OR MANGANESE ANALYSES FOR SOLUBLE AND INSOLUBLE THE PAST THREE YEARS – BASELINE (WITHOUT TREATMENT), WELL HEAD (AFTER TREATMENT), AND DISTRIBUTION SYSTEM (AFTER TREATMENT)

NO SPECIAL INORGANIC CHEMICAL ANALYSES HAVE BEEN TAKEN IN THE PAST THREE YEARS.

APPENDIX B

CABARRUS ACRES

**F. COPIES OF THE PUMP STATUS REPORTS FOR EACH
WELL FOR THE LAST TWO YEARS**

PUMP STATUS REPORT FORM

WATER SYSTEM NAME: Cabarrus Acres
 PWS ID #: NC 01-13-146
 WELL NO: Well-1
 WELL PUMP:
 BOOSTER PUMP:

TANK #1 _____ TANK #2 _____
 TYPE _____ TYPE _____
 TOTAL CAPACITY _____ TOTAL CAPACITY _____
 OPERATING PRESSURE _____ OPERATING PRESSURE _____

Date Read	No. Days	Master Meter Reading	Gallons Pumped	Time Meter Reading	Total Hrs. Oper	GPD Pumped	Impulse Meter Reading	Impulse Meter Count	Avg. Pump Cycles / Day	Avg. Dur (mins)	Hrs / Day	Avg. GPM	Avg Water Pumped / Cycle (gals)	Sodium Hypochlorite Added (gals)	Orthophosphate Added (oz)	Sodium Hydroxide Added (gals)
7/2/2019	6	10950500	17600	4160	6	2933	31528	92	15.33	3.91	1.00	48.89	15.33			
7/5/2019	3	10957000	6500	4162	2	2167	31563	35	11.67	3.43	0.67	54.17	11.67			
7/9/2019	4	10962800	5800	4164	2	1450	31597	34	8.50	3.53	0.50	48.33	8.50			
7/11/2019	2	10966300	3500	4166	2	1750	31618	21	10.50	5.71	1.00	29.17	10.50			
7/16/2019	5	10974400	8100	4168	2	1620	31667	49	9.80	2.45	0.40	67.50	9.80			
7/19/2019	3	10980800	6400	4171	3	2133	31702	35	11.67	5.14	1.00	35.56	11.67			
7/23/2019	4	10985600	4800	4172	1	1200	31731	29	7.25	2.07	0.25	80.00	7.25			
7/26/2019	3	10988700	3100	4172	0	1033	31750	19	6.33	0.00	0.00	#Error	6.33			
7/30/2019	4	10996800	8100	4176	4	2025	31794	44	11.00	5.45	1.00	33.75	11.00			
8/1/2019	2	10999600	2800	4177	1	1400	31808	14	7.00	4.29	0.50	46.67	7.00			
8/6/2019	5	11008100	8500	4180	3	1700	31859	51	10.20	3.53	0.60	47.22	10.20			
8/9/2019	3	11012000	3900	4182	2	1300	31882	23	7.67	5.22	0.67	32.50	7.67			
8/13/2019	4	11021100	9100	4185	3	2275	31935	53	13.25	3.40	0.75	50.56	13.25			
8/15/2019	2	11023700	2600	4186	1	1300	31951	16	8.00	3.75	0.50	43.33	8.00			
8/20/2019	5	11033900	10200	4190	4	2040	32009	58	11.60	4.14	0.80	42.50	11.60			
8/23/2019	3	11037500	3600	4191	1	1200	32031	22	7.33	2.73	0.33	60.00	7.33			

PUMP STATUS REPORT FORM

8/27/2019	4	11045700	8200	4194	3	2050	32078	47	11.75	3.83	0.75	45.56	11.75
8/29/2019	2	11048100	2400	4195	1	1200	32092	14	7.00	4.29	0.50	40.00	7.00
9/4/2019	6	11058700	10600	4198	3	1767	32148	56	9.33	3.21	0.50	58.89	9.33
9/6/2019	2	11060900	2200	4199	1	1100	32163	15	7.50	4.00	0.50	36.67	7.50
9/10/2019	4	11066200	5300	4201	2	1325	32195	32	8.00	3.75	0.50	44.17	8.00
9/12/2019	2	11071800	5600	4203	2	2800	32221	26	13.00	4.62	1.00	46.67	13.00
9/17/2019	5	11079600	7800	4206	3	1560	32274	53	10.60	3.40	0.60	43.33	10.60
9/19/2019	2	11086600	7000	4208	2	3500	32313	39	19.50	3.08	1.00	58.33	19.50
9/24/2019	5	11096900	10300	4212	4	2060	32370	57	11.40	4.21	0.80	42.92	11.40
9/27/2019	3	11101000	4100	4213	1	1367	32394	24	8.00	2.50	0.33	68.33	8.00
10/1/2019	4	11107100	6100	4215	2	1525	32431	37	9.25	3.24	0.50	50.83	9.25
10/4/2019	3	11111200	4100	4217	2	1367	32456	25	8.33	4.80	0.67	34.17	8.33
10/8/2019	4	11119200	8000	4220	3	2000	32501	45	11.25	4.00	0.75	44.44	11.25
10/11/2019	3	11124500	5300	4222	2	1767	32534	33	11.00	3.64	0.67	44.17	11.00
10/16/2019	5	11131900	7400	4224	2	1480	32578	44	8.80	2.73	0.40	61.67	8.80
10/18/2019	2	11134000	2100	4225	1	1050	32591	13	6.50	4.62	0.50	35.00	6.50
10/22/2019	4	11139100	5100	4227	2	1275	32623	32	8.00	3.75	0.50	42.50	8.00
10/25/2019	3	11143300	4200	4228	1	1400	32648	25	8.33	2.40	0.33	70.00	8.33
10/29/2019	4	11148500	5200	4230	2	1300	32679	31	7.75	3.87	0.50	43.33	7.75
10/30/2019	1	11151300	2800	4231	1	2800	32694	15	15.00	4.00	1.00	46.67	15.00
11/5/2019	6	11158700	7400	4234	3	1233	32739	45	7.50	4.00	0.50	41.11	7.50
11/8/2019	3	11162500	3800	4235	1	1267	32761	22	7.33	2.73	0.33	63.33	7.33
11/12/2019	4	11169100	6600	4237	2	1650	32790	29	7.25	4.14	0.50	55.00	7.25
11/15/2019	3	11172500	3400	4239	2	1133	32821	31	10.33	3.87	0.67	28.33	10.33
11/20/2019	5	11180300	7800	4241	2	1560	32857	36	7.20	3.33	0.40	65.00	7.20
11/22/2019	2	11184500	4200	4243	2	2100	32872	15	7.50	8.00	1.00	35.00	7.50
11/26/2019	4	11192200	7700	4246	3	1925	32898	26	6.50	6.92	0.75	42.78	6.50

PUMP STATUS REPORT FORM

11/27/2019	1	11193900	1700	4246	0	1700	32904	6	6.00	0.00	0.00	#Error	6.00
12/4/2019	7	11204200	10300	4250	4	1471	32978	74	10.57	3.24	0.57	42.92	10.57
12/6/2019	2	11211200	7000	4252	2	3500	33006	28	14.00	4.29	1.00	58.33	14.00
12/10/2019	4	11217300	6100	4252	0	1525	33033	27	6.75	0.00	0.00	#Error	6.75
12/12/2019	2	11220400	3100	4255	3	1550	33048	15	7.50	12.00	1.50	17.22	7.50
12/17/2019	5	11227700	7300	4258	3	1460	33082	34	6.80	5.29	0.60	40.56	6.80
12/20/2019	3	11232400	4700	4260	2	1567	33104	22	7.33	5.45	0.67	39.17	7.33
12/23/2019	3	11237100	4700	4261	1	1567	33120	16	5.33	3.75	0.33	78.33	5.33
12/26/2019	3	11241300	4200	4263	2	1400	33146	26	8.67	4.62	0.67	35.00	8.67
12/31/2019	5	11248600	7300	4265	2	1460	33180	34	6.80	3.53	0.40	60.83	6.80
1/3/2020	3	11254000	5400	4267	2	1800	33206	26	8.67	4.62	0.67	45.00	8.67
1/7/2020	4	11260900	6900	4270	3	1725	33236	30	7.50	6.00	0.75	38.33	7.50
1/10/2020	3	11265600	4700	4271	1	1567	33257	21	7.00	2.86	0.33	78.33	7.00
1/14/2020	4	11272000	6400	4274	3	1600	33286	29	7.25	6.21	0.75	35.56	7.25
1/17/2020	3	11278400	6400	4276	2	2133	33315	29	9.67	4.14	0.67	53.33	9.67
1/21/2020	4	11284800	6400	4278	2	1600	33346	31	7.75	3.87	0.50	53.33	7.75
1/24/2020	3	11289900	5100	4280	2	1700	33370	24	8.00	5.00	0.67	42.50	8.00
1/28/2020	4	11297200	7300	4282	2	1825	33404	34	8.50	3.53	0.50	60.83	8.50
1/31/2020	3	11301800	4600	4284	2	1533	33426	22	7.33	5.45	0.67	38.33	7.33
2/4/2020	4	11308000	6200	4286	2	1550	33455	29	7.25	4.14	0.50	51.67	7.25
2/7/2020	3	11312900	4900	4288	2	1633	33479	24	8.00	5.00	0.67	40.83	8.00
2/11/2020	4	11319800	6900	4290	2	1725	33512	33	8.25	3.64	0.50	57.50	8.25
2/14/2020	3	11324800	5000	4292	2	1667	33536	24	8.00	5.00	0.67	41.67	8.00
2/19/2020	5	11332500	7700	4295	3	1540	33573	37	7.40	4.86	0.60	42.78	7.40
2/21/2020	2	11335800	3300	4296	1	1650	33589	16	8.00	3.75	0.50	55.00	8.00
2/25/2020	4	11342700	6900		(4296)	1725		(33589)	(8397.25)	7.67	(1074.00)	0.00	(8397.25)
2/28/2020	3	11342700	0	4298	4298	0	33622	33622	11207.33	7.67	1432.67	0.00	11207.33

PUMP STATUS REPORT FORM

3/3/2020	4	11353700	11000	4302	4	2750	33675	53	13.25	4.53	1.00	45.83	13.25
3/6/2020	3	11358200	4500	4304	2	1500	33697	22	7.33	5.45	0.67	37.50	7.33
3/10/2020	4	11364500	6300	4306	2	1575	33728	31	7.75	3.87	0.50	52.50	7.75
3/12/2020	2	11368200	3700	4307	1	1850	33745	17	8.50	3.53	0.50	61.67	8.50
3/17/2020	5	11377600	9400	4311	4	1880	33788	43	8.60	5.58	0.80	39.17	8.60
3/20/2020	3	11382200	4600	4312	1	1533	33811	23	7.67	2.61	0.33	76.67	7.67
3/24/2020	4	11389200	7000	4315	3	1750	33845	34	8.50	5.29	0.75	38.89	8.50
3/26/2020	2	11392700	3500	4316	1	1750	33862	17	8.50	3.53	0.50	58.33	8.50
3/31/2020	5	11401300	8600	4319	3	1720	33904	42	8.40	4.29	0.60	47.78	8.40
4/3/2020	3	11406800	5500	4321	2	1833	33928	24	8.00	5.00	0.67	45.83	8.00
4/7/2020	4	11414900	8100	4324	3	2025	33970	42	10.50	4.29	0.75	45.00	10.50
4/10/2020	3	11422200	7300	4326	2	2433	34005	35	11.67	3.43	0.67	60.83	11.67
4/15/2020	5	11433200	11000	4330	4	2200	34058	53	10.60	4.53	0.80	45.83	10.60
4/17/2020	2	11437500	4300	4332	2	2150	34076	18	9.00	6.67	1.00	35.83	9.00
4/21/2020	4	11445100	7600	4334	2	1900	34116	40	10.00	3.00	0.50	63.33	10.00
4/24/2020	3	11451000	5900	4337	3	1967	34141	25	8.33	7.20	1.00	32.78	8.33
4/28/2020	4	11459600	8600	4340	3	2150	34183	42	10.50	4.29	0.75	47.78	10.50
4/30/2020	2	11463300	3700	4341	1	1850	34201	18	9.00	3.33	0.50	61.67	9.00
5/5/2020	5	11481100	17800	4347	6	3560	34261	60	12.00	6.00	1.20	49.44	12.00
5/8/2020	3	11486500	5400	4349	2	1800	34287	26	8.67	4.62	0.67	45.00	8.67
5/12/2020	4	11494900	8400	4352	3	2100	34323	36	9.00	5.00	0.75	46.67	9.00
5/15/2020	3	11499400	4500	4354	2	1500	34347	24	8.00	5.00	0.67	37.50	8.00
5/19/2020	4	11507200	7800	4355	1	1950	34384	37	9.25	1.62	0.25	130.00	9.25
5/22/2020	3	11511900	4700	4358	3	1567	34406	22	7.33	8.18	1.00	26.11	7.33
5/27/2020	5	11519800	7900	4361	3	1580	34445	39	7.80	4.62	0.60	43.89	7.80
5/29/2020	2	11522900	3100	4362	1	1550	34461	16	8.00	3.75	0.50	51.67	8.00
6/3/2020	5	11531500	8600	4365	3	1720	34501	40	8.00	4.50	0.60	47.78	8.00
6/4/2020	1	11533400	1900	4366	1	1900	34510	9	9.00	6.67	1.00	31.67	9.00

PUMP STATUS REPORT FORM

6/9/2020	5	11541100	7700	4368	2	1540	34546	36	7.20	3.33	0.40	64.17	7.20
6/11/2020	2	11544300	3200	4369	1	1600	34561	15	7.50	4.00	0.50	53.33	7.50
6/16/2020	5	11553600	9300	4373	4	1860	34608	47	9.40	5.11	0.80	38.75	9.40
6/19/2020	3	11560600	7000	4375	2	2333	34639	31	10.33	3.87	0.67	58.33	10.33
6/23/2020	4	11568500	7900	4378	3	1975	34681	42	10.50	4.29	0.75	43.89	10.50
6/25/2020	2	11572400	3900	4379	1	1950	34700	19	9.50	3.16	0.50	65.00	9.50
6/30/2020	5	11583100	10700	4383	4	2140	34753	53	10.60	4.53	0.80	44.58	10.60
7/1/2020	1	11584600	1500	4384	1	1500	34762	9	9.00	6.67	1.00	25.00	9.00
7/7/2020	6	11597700	13100	4388	4	2183	34824	62	10.33	3.87	0.67	54.58	10.33
7/10/2020	3	11603000	5300	4390	2	1767	34850	26	8.67	4.62	0.67	44.17	8.67
7/14/2020	4	11611100	8100	4393	3	2025	34889	39	9.75	4.62	0.75	45.00	9.75
7/16/2020	2	11615800	4700	4394	1	2350	34910	21	10.50	2.86	0.50	78.33	10.50
7/21/2020	5	11625700	9900	4398	4	1980	34959	49	9.80	4.90	0.80	41.25	9.80
7/24/2020	3	11631400	5700	4400	2	1900	34989	30	10.00	4.00	0.67	47.50	10.00
7/28/2020	4	11646200	14800	4405	5	3700	35032	43	10.75	6.98	1.25	49.33	10.75
7/30/2020	2	11649300	3100	4407	2	1550		(35032)	(17516.00)	0.00	1.00	25.83	(17516.00)
8/5/2020	6	11661700	12400	4411	4	2067		0	0.00	240.00	0.67	51.67	0.00
8/7/2020	2	11665000	3300	4412	1	1650	35123	35123	17561.50	0.00	0.50	55.00	17561.50
8/11/2020	4	11674600	9600	4415	3	2400	35169	46	11.50	3.91	0.75	53.33	11.50
8/14/2020	3	11682500	7900	4418	3	2633	35204	35	11.67	5.14	1.00	43.89	11.67
8/18/2020	4	11694300	11800	4422	4	2950	35261	57	14.25	4.21	1.00	49.17	14.25
8/19/2020	1	11697800	3500	4424	2	3500	35277	16	16.00	7.50	2.00	29.17	16.00
8/25/2020	6	11724700	26900	4433	9	4483	35370	93	15.50	5.81	1.50	49.81	15.50
8/26/2020	1	11727700	3000	4434	1	3000	35384	14	14.00	4.29	1.00	50.00	14.00
9/1/2020	6	11745100	17400	4441	7	2900	35466	82	13.67	5.12	1.17	41.43	13.67
9/4/2020	3	11752900	7800	4443	2	2600	35502	36	12.00	3.33	0.67	65.00	12.00
9/9/2020	5	11767000	14100	4448	5	2820	35566	64	12.80	4.69	1.00	47.00	12.80
9/11/2020	2	11772300	5300	4450	2	2650	35590	24	12.00	5.00	1.00	44.17	12.00

PUMP STATUS REPORT FORM

9/15/2020	4	11783200	10900	4454	4	2725	35640	50	12.50	4.80	1.00	45.42	12.50
9/17/2020	2	11789900	6700	4456	2	3350	35668	28	14.00	4.29	1.00	55.83	14.00
9/22/2020	5	11803800	13900	4461	5	2780	35734	66	13.20	4.55	1.00	46.33	13.20
9/25/2020	3	11813000	9200	4465	4	3067	35776	42	14.00	5.71	1.33	38.33	14.00
9/29/2020	4	11825600	12600	4469	4	3150	35833	57	14.25	4.21	1.00	52.50	14.25
10/2/2020	3	11828000	2400	4470	1	800	35844	11	3.67	5.45	0.33	40.00	3.67
10/6/2020	4	11846700	18700	4477	7	4675	35930	86	21.50	4.88	1.75	44.52	21.50
10/9/2020	3	11856500	9800	4480	3	3267	35974	44	14.67	4.09	1.00	54.44	14.67
10/13/2020	4	11868900	12400	4484	4	3100	36031	57	14.25	4.21	1.00	51.67	14.25
10/16/2020	3	11878500	9600	4488	4	3200	36077	46	15.33	5.22	1.33	40.00	15.33
10/19/2020	3	11888300	9800	4491	3	3267	36124	47	15.67	3.83	1.00	54.44	15.67
10/21/2020	2	11894200	5900	4493	2	2950	36152	28	14.00	4.29	1.00	49.17	14.00
10/27/2020	6	11912600	18400	4500	7	3067	36239	87	14.50	4.83	1.17	43.81	14.50
10/30/2020	3	11927100	14500	4505	5	4833	36272	33	11.00	9.09	1.67	48.33	11.00
11/3/2020	4	11939900	12800	4510	5	3200	36331	59	14.75	5.08	1.25	42.67	14.75
11/5/2020	2	11944100	4200	4511	1	2100	36350	19	9.50	3.16	0.50	70.00	9.50
11/10/2020	5	11956100	12000	4515	4	2400	36404	54	10.80	4.44	0.80	50.00	10.80
11/13/2020	3	11963200	7100	4518	3	2367	36437	33	11.00	5.45	1.00	39.44	11.00
11/17/2020	4	11973200	10000	4522	4	2500	36485	48	12.00	5.00	1.00	41.67	12.00
11/20/2020	3	11980300	7100	4524	2	2367	36517	32	10.67	3.75	0.67	59.17	10.67
11/23/2020	3	11988100	7800	4527	3	2600	36553	36	12.00	5.00	1.00	43.33	12.00
11/25/2020	2	11992800	4700	4528	1	2350	36574	21	10.50	2.86	0.50	78.33	10.50
12/1/2020	6	12008900	16100	4534	6	2683	36620	46	7.67	7.83	1.00	44.72	7.67
12/4/2020	3	12016600	7700	4537	3	2567	36685	65	21.67	2.77	1.00	42.78	21.67
12/8/2020	4	12027300	10700	4541	4	2675	36735	50	12.50	4.80	1.00	44.58	12.50
12/10/2020	2	12033100	5800	4543	2	2900	36760	25	12.50	4.80	1.00	48.33	12.50
12/15/2020	5	12046000	12900	4547	4	2580	36821	61	12.20	3.93	0.80	53.75	12.20

PUMP STATUS REPORT FORM

12/16/2020	1	12048700	2700	4548	1	2700	36833	12	12.00	5.00	1.00	45.00	12.00
12/22/2020	6	12063600	14900	4554	6	2483	36902	69	11.50	5.22	1.00	41.39	11.50
12/24/2020	2	12069200	5600	4556	2	2800	36929	27	13.50	4.44	1.00	46.67	13.50
12/29/2020	5	12084200	15000	4561	5	3000	36996	67	13.40	4.48	1.00	50.00	13.40
12/31/2020	2	12090600	6400	4563	2	3200	37025	29	14.50	4.14	1.00	53.33	14.50
1/5/2021	5	12105600	15000	4569	6	3000	37095	70	14.00	5.14	1.20	41.67	14.00
1/8/2021	3	12114200	8600	4572	3	2867	37134	39	13.00	4.62	1.00	47.78	13.00
1/12/2021	4	12128000	13800	4576	4	3450	37195	61	15.25	3.93	1.00	57.50	15.25
1/15/2021	3	12137700	9700	4580	4	3233	37259	64	21.33	3.75	1.33	40.42	21.33
1/19/2021	4	12150800	13100	4584	4	3275	37297	38	9.50	6.32	1.00	54.58	9.50
1/22/2021	3	12160600	9800	4588	4	3267	37342	45	15.00	5.33	1.33	40.83	15.00
1/26/2021	4	12174200	13600	4593	5	3400	37405	63	15.75	4.76	1.25	45.33	15.75
1/29/2021	3	12184100	9900	4596	3	3300	37451	46	15.33	3.91	1.00	55.00	15.33
2/2/2021	4	12192500	8400		(4596)	2100		(37451)	(9362.75)	7.36	(1149.00)	0.00	(9362.75)
2/3/2021	1	12201300	8800	4602	4602	8800	37528	37528	37528.00	7.36	4602.00	0.03	37528.00
2/9/2021	6	12224600	23300	4611	9	3883	37629	101	16.83	5.35	1.50	43.15	16.83
2/12/2021	3	12235500	10900	4614	3	3633	37680	51	17.00	3.53	1.00	60.56	17.00
2/16/2021	4	12251100	15600	4620	6	3900	37750	70	17.50	5.14	1.50	43.33	17.50
2/19/2021	3	12263600	12500	4624	4	4167	37802	52	17.33	4.62	1.33	52.08	17.33
2/22/2021	3	12275700	12100	4629	5	4033	37865	63	21.00	4.76	1.67	40.33	21.00
2/26/2021	4	12292800	17100	4635	6	4275	37933	68	17.00	5.29	1.50	47.50	17.00
3/2/2021	4	12312700	19900	4642	7	4975	38020	87	21.75	4.83	1.75	47.38	21.75
3/5/2021	3	12326200	13500	4647	5	4500	38086	66	22.00	4.55	1.67	45.00	22.00
3/9/2021	4	12348100	21900	4654	7	5475	38181	95	23.75	4.42	1.75	52.14	23.75
3/12/2021	3	12365100	17000	4660	6	5667	38258	77	25.67	4.68	2.00	47.22	25.67
3/16/2021	4	12389200	24100	4669	9	6025	38371	113	28.25	4.78	2.25	44.63	28.25
3/18/2021	2	12396600	7400	4672	3	3700	38402	31	15.50	5.81	1.50	41.11	15.50

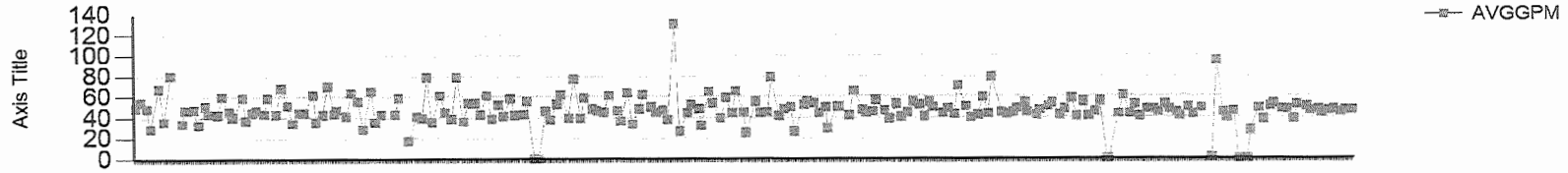
PUMP STATUS REPORT FORM

3/23/2021	5	12446700	50100	4689	17	10020	38597	195	39.00	5.23	3.40	49.12	39.00
3/26/2021	3	12472400	25700	4699	10	8567	38708	111	37.00	5.41	3.33	42.83	37.00
3/31/2021	5	12530700	58300	4719	20	11660	38927	219	43.80	5.48	4.00	48.58	43.80
4/2/2021	2	12530700	0	4719	0	0	38927	0	0.00	0.00	0.00	#Error	0.00
4/6/2021	4	12537600	6900	4794	75	1725	39330	403	100.75	11.17	18.75	1.53	100.75
4/9/2021	3	12915600	378000	4861	67	126000	39381	51	17.00	78.82	22.33	94.03	17.00
4/13/2021	4	13173900	258300	4957	96	64575	39381	0	0.00	5760.00	24.00	44.84	0.00
4/15/2021	2	13183300	9400	4961	4	4700	39395	14	7.00	17.14	2.00	39.17	7.00
4/19/2021	4	13194200	10900	4965	4	2725	39443	48	12.00	5.00	1.00	45.42	12.00
4/22/2021	3	13195800	1600		(4965)	533		(39443)	(13147.67)	7.55	(1655.00)	0.00	(13147.67)
4/27/2021	5	13205800	10000	4968	4968	2000	39497	39497	7899.40	7.55	993.60	0.03	7899.40
4/29/2021	2	13207400	1600	4969	1	800	39508	11	5.50	5.45	0.50	26.67	5.50
5/4/2021	5	13213200	5800	4971	2	1160	39538	30	6.00	4.00	0.40	48.33	6.00
5/7/2021	3	13217700	4500	4973	2	1500	39557	19	6.33	6.32	0.67	37.50	6.33
5/11/2021	4	13229700	12000	4977	4	3000	39618	61	15.25	3.93	1.00	50.00	15.25
5/13/2021	2	13236000	6300	4979	2	3150	39650	32	16.00	3.75	1.00	52.50	16.00
5/18/2021	5	13253100	17100	4985	6	3420	39733	83	16.60	4.34	1.20	47.50	16.60
5/21/2021	3	13264400	11300	4989	4	3767	39791	58	19.33	4.14	1.33	47.08	19.33
5/25/2021	4	13275700	11300	4994	5	2825	39850	59	14.75	5.08	1.25	37.67	14.75
5/27/2021	2	13281900	6200	4996	2	3100	39883	33	16.50	3.64	1.00	51.67	16.50
6/2/2021	6	13302700	20800	5003	7	3467	39987	104	17.33	4.04	1.17	49.52	17.33
6/4/2021	2	13335700	33000	5015	12	16500	40127	140	70.00	5.14	6.00	45.83	70.00
6/9/2021	5	13417400	81700	5044	29	16340	40482	355	71.00	4.90	5.80	46.95	71.00
6/11/2021	2	13454100	36700	5058	14	18350	40639	157	78.50	5.35	7.00	43.69	78.50
6/15/2021	4	13525500	71400	5084	26	17850	40938	299	74.75	5.22	6.50	45.77	74.75
6/18/2021	3	13579200	53700	5103	19	17900	41160	222	74.00	5.14	6.33	47.11	74.00
6/22/2021	4	13649100	69900	5129	26	17475	41458	298	74.50	5.23	6.50	44.81	74.50
6/25/2021	3	13699100	50000	5147	18	16667	41671	213	71.00	5.07	6.00	46.30	71.00

PUMP STATUS REPORT FORM

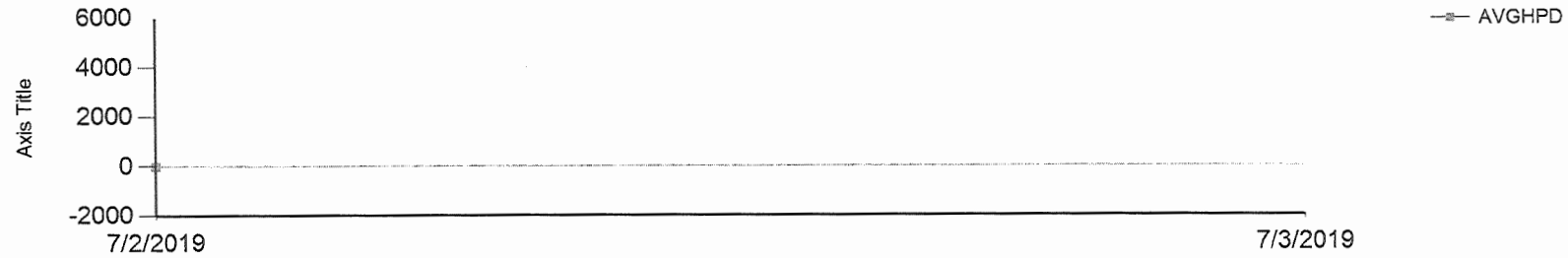
6/29/2021 4 13765700 66600 5171 24 16650 41952 281 70.25 5.12 6.00 46.25 70.25

Average Gallons per Minute



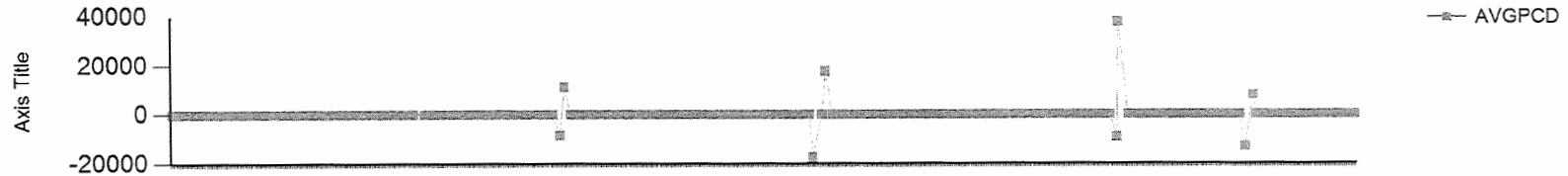
Reading Date

Average Hours per Day



Reading Date

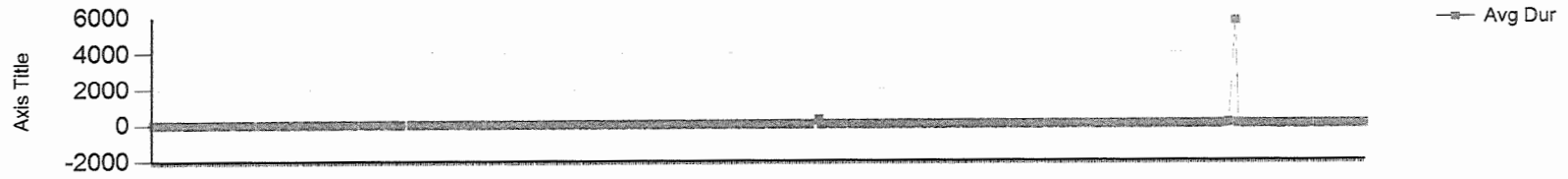
Average Pump Cycles per Day



Reading Date

PUMP STATUS REPORT FORM

Average Duration



Reading Date

APPENDIX B

CABARRUS ACRES

G. ORIGINAL 24-HOUR PUMP TEST FOR EACH WELL

NOT AVAILABLE

APPENDIX B

CABARRUS ACRES

- H. COPIES WITHIN THE LAST SIX MONTHS OF ALL AQUA NC EMAILS TO AND FROM PWSS, LETTERS TO AND FROM PWSS, REPORTS TO AND FROM PWSS, AND THE RECOMMENDATIONS OF PWSS REGARDING WATER QUALITY CONCERNS ON AQUA NC'S WATER SYSTEMS

THERE IS NO CORRESPONDENCE THAT CAN BE LOCATED WITHIN THE LAST SIX MONTHS WITH PWSS.