

Environmental Services - Water Quality
Onsite Wastewater Scan Data Entry Form

PERMIT #: 0019442

PIN #: 1718495181

OP DATE: 09/13/2002

SYSTEM USE:

- ☒ House
☐ Mobile Home
☐ Business
☐ Other

SEWAGE TYPE:

- ☒ Domestic
☐ Industrial

PUMP/SIPHON?:

- ☒ Yes
☐ No

PRESSURE MANIFOLD:

- ☒ Yes
☐ No

SYSTEM TYPE:

- ☐ I
☐ II
☒ III
☐ IV
☐ V
☐ VI
☐ Other

SUB TYPE:

- ☐ A
☒ B
☐ C
☐ D
☐ E
☐ F
☐ G

NBR BEDROOMS:

- ☐ 1
☐ 2
☐ 3
☒ 4
☐ 5
☐ 6
☐ Other

MAINT. SCHEDULE:

- ☐ Yes
☒ No

CERT. OPERATOR

- ☐ Yes
☒ No

GT ST PT

- ☐ ☐ ☐
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SIZE

- 750
900
1,000
1,200
1,500
1,800
2,100
2,500
3,000
4,000
5,000
8,000
10,000
Other
None/NA GT or PT

DRAINFIELD SIZE(SQ. FT.)

01425

DRAIN TYPE:

- ☐ Stone
☒ EZ Flow
☐ Infiltrator
☐ Biodiffuser
☐ Cultec
☐ Drip
☐ Hancor
☐ Large Dia. Pipe
☐ Multi-Pipe
☐ Other

MAX DEPTH (IN.):

- ☐ 12 in. or less
☐ 18 in. or less
☒ 24 in. or less
☐ 26 in. or less
☐ 28 in. or less
☐ 30 in. or less
☐ 32 in. or less
☐ 36 in. or less
☐ Other

STONE DEPTH (IN.):

- ☐ 8 in. or less
☒ 12 in. or less
☐ 18 in. or less
☐ 24 in. or less
☐ Other

TRENCHES:

- ☒ Individual
☐ Bed

TRENCH WIDTH (IN.):

- ☐ 12 in. or less
☐ 18 in.
☐ 24 in.
☒ 36 in.
☐ 6 ft. or less
☐ 9 ft. or less
☐ Other

WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES WELL AND SEWAGE SITE LOCATION PERMIT
NO PERMIT(S) FOR CONSTRUCTION, LOCATION OR RELOCATION ACTIVITY SHALL BE ISSUED
UNTIL AN AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION HAS BEEN ISSUED

PERMIT VOID IF NOT IN COMPLIANCE WITH ZONING REGULATIONS AND/ OR IF SITE IS ALTERED OR INTENDED USE CHANGED

PERMIT#: D019442 STATUS: A APP. DATE: 09/21/2000 BLDG. PERMIT#: 0010952
PIN: 1718.01 49 5181 000 TAX MAP: 0282 0000 RECORDED: Y ORIG. PERMIT#:
TOWNSHIP: 02 BARTON'S CREEK JURISDICTION: WC ZONING: 80W
APPLICANT: STEEN CONSTRUCTION CO
7100 MANOR OAKS DR
RALEIGH, NC 27615
(919) 790 - 0472
USE: HD USE: 101 ONE-FAMILY HOUSE
EXIST USE:
DISPOSAL: N BEDROOMS: 4 BASEMENT: N #EMPLOYEES: 0
SITE: ADDRESS: 5324 WYNNEFORD WAY
SUBDIVISION: DEVON LOT: 12 ACRES: 1.22
DIRECTION: SR 2000 N TO R ON SR 2006 TO L INTO SUB

Well System: WATER: COMMUNITY - TYPE: IRRIGATION

WELL LOG INFORMATION: DEPTH: _____ CASING DEPTH: _____ YIELD: _____ STATIC LEVEL: _____
WELL CONTRACTOR: _____ REG.# _____ PUMP CONTRACTOR: _____ REG.# _____
Construction Compliance GROUT APPROVED ☐ DATE _____ EHS _____
WELLHEAD APPROVED ☐ DATE _____ EHS _____
SYSTEM FINALIZED ☐ DATE _____ EHS _____

COMMENTS:

DESIGN FLOW: 44.02 gal./min. ACTUAL FLOW: 44.1 Operation Permit
INNOVATIVE LETTER: R

INSTALLED BY: Paulity Landscape INSTALLATION APPROVED BY: Chen John
PROPRIETARY SYSTEM: 22-Flow FILTER NO: ZABEL
COMMENTS:

OPERATIONS PERMIT ISSUED? ☒ OP DATE: 9/13/02 BY: Chen John

This permit is based in part on information provided by the homeowner or his/her representative in the application submitted for this permit. The Environmental Health Specialist is not responsible for false or misleading information contained in the application. The Environmental Health Specialist is also not responsible for concealed conditions on the property or for statements in this report that may have resulted from false or misleading statements provided to him in the application. Neither Wake County nor the Environmental Health Specialist warrants that the septic tank system will continue to function satisfactorily in the future or that the water supply will remain potable.

ES Copy

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USE: HD USE: 101 ONE-FAMILY HOUSE
EXIST USE:
DISPOSAL: N BEDROOMS: 4 BASEMENT: N #EMPLOYEES: 0 FOUND DRAIN: Y
SITE: ADDRESS: 5324 WYNNEFORD WAY
SUBDIVISION: DEVON LOT: 12 ACRES: 1.22
DIRECTION: SR 2000 N TO R ON SR 2006 TO L INTO SUB

IMPROVEMENT PERMIT

TANK SIZE: 1200 gal. PUMP Tank: 1200 gal. SQ FT: 1425 INNOVATIVE MAX DEPTH LINE: 24 in.
WASTEWATER: INDIVIDUAL SEWAGE: DOMESTIC TYPE SYSTEM: III G PUMP: Y P/M: Y
DAILY FLOW: 480 gal/day DESIGN FEE REQ?: Y PAID?: Y WATER: COMMUNITY

COMMENTS:

IP ISSUED? Y DATE: 10/11/2000 BY: (RTT) *Todd Taylor* *by Buttt* PHONE#: 857-9354

AUTHORIZATION FOR WASTEWATER/WATER SYSTEM CONSTRUCTION

VOID SIXTY (60) MONTHS FROM DATE OF ISSUANCE

AUTHORIZATION CONDITIONS:

Contractors shall install system on contours, see attached site plan for wastewater system design and well location. No underground utilities, water lines or sprinkler systems may be located in the original system or repair areas. A septic tank filter with a riser for access is required. The wastewater system shall not be covered or placed into use until inspected by the Wake County Department of Environmental Services and an Operation Permit issued. OTHER CONDITIONS:

INNOVATIVE REDUCTION HAS ALREADY BEEN TAKEN IN DESIGN OF INITIAL AND REPAIR SYSTEMS. SEE DESIGN PLANS BY FEBRUARY & ASSOC FOR SPECIFIC INSTALLATION INFORMATION. INITIAL SYSTEM IS A VARIED LENGTH LINE PRESSURE MANIFOLD WITH 24" TRENCH BOTTOMS. PLEASE BACKFILL IN ACCORDANCE TO INNOVATIVE PRODUCT APPROVAL. SEE TAP SHEET FOR DETAIL. A NEMA4X CONTROL PANEL WITH 2 SEPARATE POWER SOURCES GOING TO PANEL AND 2 SEPARATE CIRCUIT BREAKERS IN THE PANEL FOR PUMP AND ALARM IS REQUIRED. NO UTILITIES ARE TO BE INSTALLED IN DRAINFIELD AREAS. AN ELAPSED TIME METER AND CYCLE COUNTER ARE REQUIRED IN CONTROL PANEL BY THE DESIGNER. PLEASE CALL ENVIRONMENTAL SERVICES IF ANY QUESTIONS OR PROBLEMS ARISE. PLEASE DIVERT WATER FROM LOT 11 FOUNDATION DRAIN BY SWALE ON PROPERTY LINE OR BY RELOCATING FOUNDATION DRAIN AWAY FROM LOT 11/12 PROPERTY LINE.

TANK SIZE: 1200 gal. PUMP TANK: 1200 gal. SQ FT: 1425 INNOVATIVE MAX DEPTH LINE: 24 in.
MAINT: N OPER: N L/O: P TRENCH#: 7 LENGTH: 475 ft. WIDTH: 36 in. DESIGNER: FEBRUARY ASSOC
SUBFIELDS: 1 DESIGN HEAD PRESSURE: 2 DESIGN FLOW: 44.02 gal/min DOSE VOLUME: 225 gal.

CA ISSUED? Y DATE: 06/14/2002 BY: (BSM) *Buttt* PHONE#: 856-7463

As Built

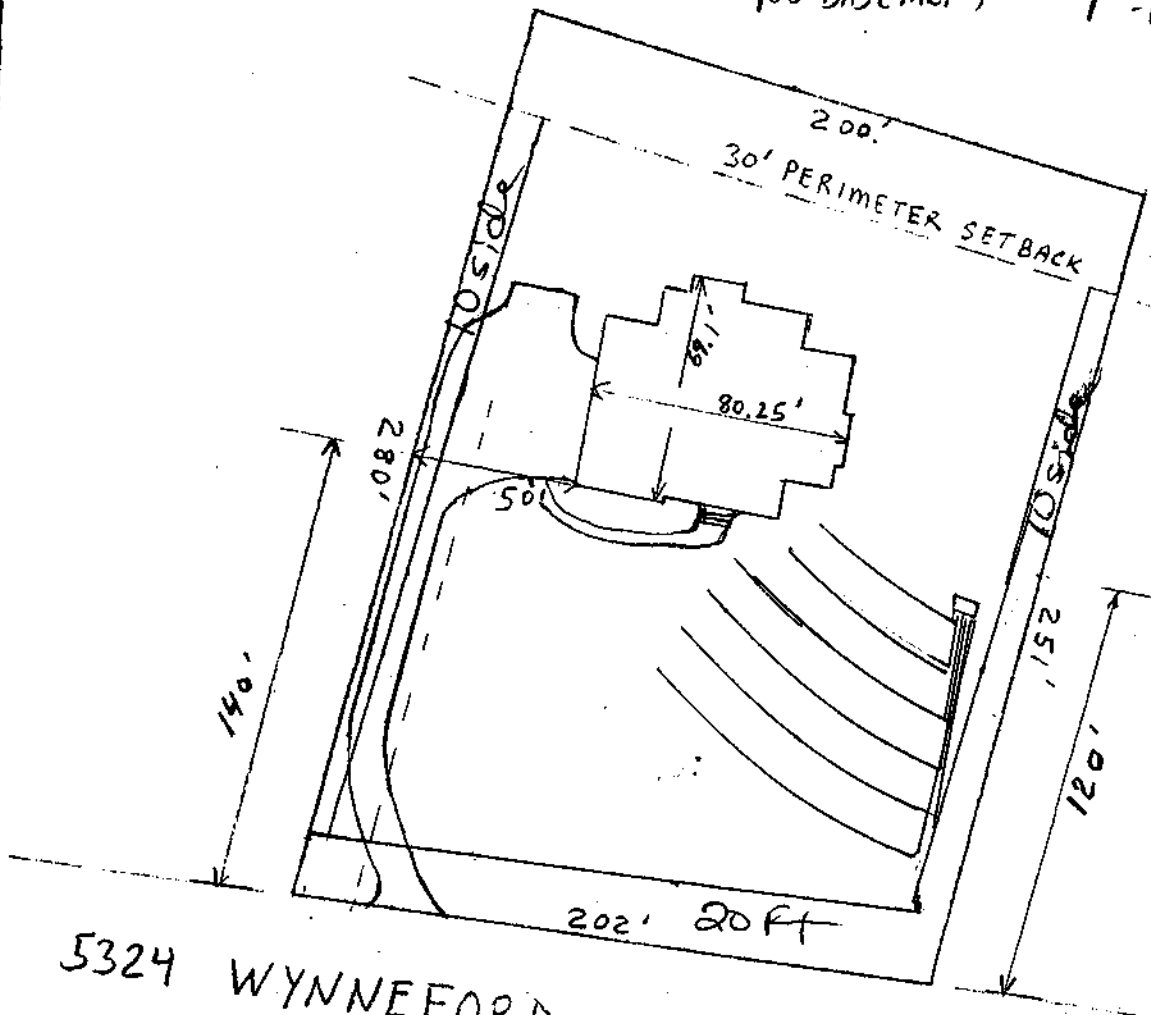
D10952
D-19442

Zoning 80W By Sett
Approve ✓ Date 1/30/02
Revise ✓ Use 101
Reject ✓ MBL ✓
Front 20 Rear 30
Side 10 Corner ✓

4 BR Comments:

NO BASEMENT

1"=60'



5324 WYNNEFORD WAY
50' R/W

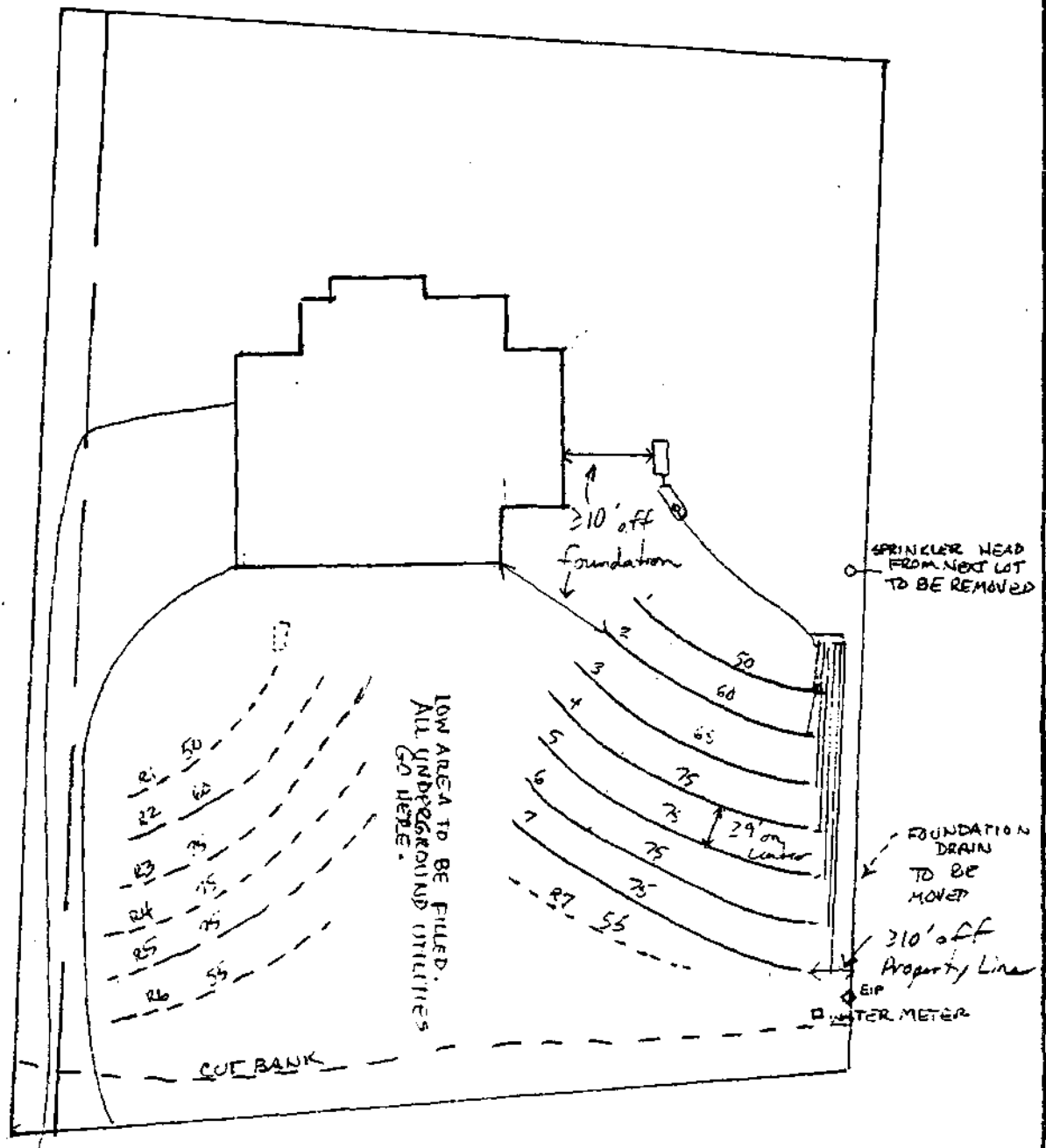
pin# 171801495181

I certify that the location of planned or existing structure(s) are accurately shown. I understand failure to locate structures in accordance with this plot plan may require the relocation of structure(s) regardless degree of completion. I hereby grant permission to Municipal/County Representatives the right of entry to make evaluations or inspections upon this property.

Walter [Signature]

PROPERTY OF

Signature of Owner or Authorized Agent

D-19442
REVISIONLOT 12
DEVON

STEEN CONSTR. CO.



FEBRUARY ASSOCIATES, INC.

PIN:

DRAWN BY: KJM

SCALE: 1"=40'

DATE: 5-20-02

PO Box 5427
Cary NC 27512
(919) 487-5427



FEBRUARY ASSOCIATES, INC.

P.O. Box 5427
Cary, N.C. 27512

Ph: 919/467-5427
Fax: 919/467-5463

PRESSURE MANIFOLD

Date: _____
County: Wake

Name: Walt Steen		P.I.N. #:		Permit #	
Phone:		Property address:			
Subdiv: Devon		Lot#: 12			
# of BDR: 4	Daily Flow: 480 gal/day	L.T.A.R.: 0.270 gal/day/sq.ft			
Septic Tank: 1200 gals with filter	Pump Tank: 1200 gals	lockable risers are recommended			
Sq. feet: 1388.33 1425	Trench depth: 18" on downhill side	Depth of stone: Polyst. aggr.			
Trench width: 36"	See Site Plan and Tap Chart for details				
Length of Trenches: 44 ft (475 actual)					
Number of Taps: 5	Manifold Length: 42 54 in (minimum)				
Manifold Diameter: 4-inch Sch. 80 PVC	Tap configuration: 5 taps, one side (6" min. spacing),				
Supply Line length: 40 ft	Diameter: 2" Sch. 40 pvc		actual I.D. = 2.067		
Friction Loss + Fitting Loss: 1.73 ft					
Design Head: 2.00 ft	Elevation Head: 3.10 ft				
Total Head: 6.83 ft	Pump to Deliver: 44.00 gpm @		6.83 ft head		
Dosing Volume: 225 gallons	Drawdown: 9 inches				
Pump & Controls:					
pump: Zoeller N978 1 phase, 115 volts.		panel: Rhombus panel, 1121W914H, 8AC, 15A (NEMA 4X box) w/ event counter, elapsed time meter, separate alarm circuit, 2 circuit breakers			
other equipment that meets or exceeds the specifications may be substituted. Contact designer if questions.					

The plans and specifications for this On-site Sewage Disposal & Treatment System have been prepared according to criteria in North Carolina's rules and regulations governing On-site Systems, to additional county standards (if applicable), and to generally-accepted design principles. February Associates, Inc., makes no representation regarding soils conditions on this property. Long-term acceptance rates, trench dimensions, and waste loads are determined by the county Health Department (or other soil science professionals), and are included as conditions of the permit issued by the Health Department. February Associates, Inc., accepts no responsibility for changes in these plans & specifications, unless we specifically authorize such changes in advance. If changes in specifications or locations of components are needed, please feel free to contact us for assistance in making alterations before the component in question is installed.

repair: pressure manifold to innovative trenches -

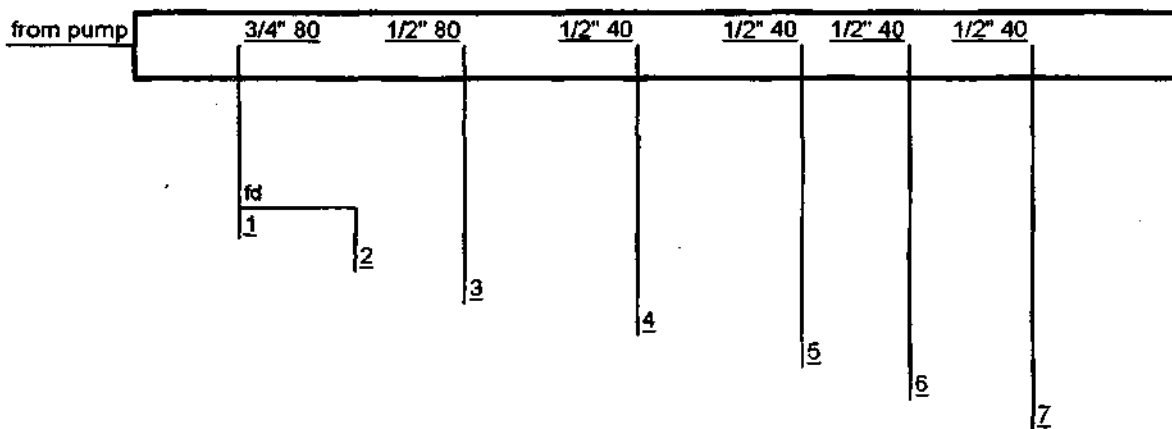
TAP CHART

Lot 12 Devon - revision

initial

Bench Mark	14.20	is = 100.00	set at	eip, 20' offset, right front					
Pump tank elev.		109.00	Pump elev.	104.00	Manifold elev.	107.10			
line	color	rod read	Elevation	length	tap size	flow/tap	gal/day	trench area	LINE LTAR
1	purple	7.6	106.60	50	3/4" 80 w/ fd	5.05	55.09	150	0.367
2	blue	8.4	105.80	60	above	5.05	55.09	180	0.306
3	green/whit	9.40	104.80	65	1/2" 80	5.5	60.00	195	0.308
4	purple	10.30	103.90	75	1/2" 40	7.1	77.45	225	0.344
5	blue	11.80	102.40	75	1/2" 40	7.1	77.45	225	0.344
6	green/whit	12.80	101.40	75	1/2" 40	7.1	77.45	225	0.344
7	blue	13.90	100.30	75	1/2" 40	7.1	77.45	225	0.344
		total	feet =	475	gal/min =	44.00	LTAR =	0.270	
% of Dose Vol.		72.9		<u>Dos. Flow</u>	480		(ltar + 5%)	0.284	
Dose Volume		225.08		Pump Run=	10.91		(ltar w/ INOV)	0.360	
Dose Pump Time		5.12		Tank Gal/MN	25		(ltar + 5%)	0.378	
Drawdown in inches		9.00		Elevation Head	3.10				

Manifold schematic not to scale



TAP CHART **repair**

Lot 12 Devon - revision

Bench Mark	14.20	is = 100.00	set at	eip, 20' offset, right front					
Pump tank elev.		109.00	Pump elev.	104.00					
			Manifold elev.	104.40					
line	color	rod read	Elevation	length	tap size	flow/tap	gal/day	trench area	LINE LTAR
1	orange	10.3	103.90	51	3/3" 80 w/ fd	5.05	57.17	153	0.374
2	blue	11.3	102.90	60	1/2" 80	5.5	62.26	180	0.346
3	pink	12.30	101.90	75	1/2" 40	7.1	80.38	225	0.357
4	green/whl	13.10	101.10	75	1/2" 40	7.1	80.38	225	0.357
5	blue	13.80	100.40	75	1/2" 40	7.1	80.38	225	0.357
6	green/wht	14.80	99.40	55	1/2" 80	5.5	62.26	165	0.377
7	purple	15.90	84.10	55	see line 1	5.05	57.17	165	0.346
		total	feet =	446	gal/min =	42.40		<u>LTAR =</u>	0.270
% of Dose Vol.		77.6		<u>Des. Flow</u>	480			(ltar + 5%)	0.284
Dose Volume		224.96		Pump Run=	11.32			(ltar W/ INOV)	0.360
Dose Pump Time		5.31		Tank Gal/M	25			(ltar + 5%)	0.378
Drawdown in inches		9.00		Elevation Head	0.40				

Manifold schematic not to scale

