



HARNETT COUNTY ENVIRONMENTAL HEALTH

File/Permit #: EH2507-0007

CDP #: _____

IMPROVEMENT PERMIT (IP)

☐ New☐ Expansion☐ Repair☐ System Relocation☐ Change of Use

Owner: _____

Applicant: _____

Property Location: _____

PIN/Lot Identifier: _____

Subdivision: _____

Lot #: _____ Block: _____ Section: _____

Facility Type: _____ Number of bedrooms: _____ Number of Occupants: _____ Other: _____

Design Daily Flow: _____ GPD LTAR (Initial): _____ gpd/ft² LTAR (Repair): _____ gpd/ft²

Wastewater System Type: _____ (Initial)

Pump Required: ☐ Yes ☐ No ☐ May be required

Usable Depth to Limiting Condition (Initial): _____

Wastewater System Type: _____ (Repair)

Pump Required: ☐ Yes ☐ No ☐ May be required

Usable Depth to Limiting Condition (Repair): _____

Effluent Standard: ☐ DSE ☐ HSE ☐ Other: _____ Type of Water Supply: ☐ Private well ☐ Municipal Supply ☐ Other: _____

Permit conditions: _____

The issuance of this permit in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This permit is subject to revocation if the site plan, plat, or the intended use changes. The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of 15A NCAC 18E and to the conditions of this permit.

Authorized Agent's Printed Name: _____

Date: 10/03/2025

Authorized Agent's Signature: _____

Expiration Date: _____

CONSTRUCTION AUTHORIZATION (CA)

☐ New☐ Expansion☒ Repair☐ System Relocation☐ Change of Use

Owner: GOUDEAU BENJAMIN RUSSELL & GOUDEAU ALISSA MARIE

Applicant: GOUDEAU BENJAMIN RUSSELL & GOUDEAU ALISSA MARIE

Property Location: 377 ADAMS POINTE CT ANGIER, NC 27501

PIN/Lot Identifier: 0663-51-6864.000

Subdivision: HONEYCUTT HILLS

Lot #: 23 Block: _____ Section: _____

Facility Type: EX SFD 35' x 40' Number of bedrooms: 3 Number of Occupants: 6 Other: _____

Design Daily Flow: 360 GPD LTAR: .25 gpd/ft²Effluent Standard: ☒ DSE ☐ HSE ☐ Other: _____ Type of Water Supply: ☐ Private well ☒ Municipal Supply ☐ Other: _____Installation Requirements/Conditions

Wastewater System Type: Existing 50% Reduction System

Pump Required: ☐ Yes ☒ No ☐ May be required

Septic Tank Size: Ex. 1,500 gallons

Total Trench Length: 240' feet

Trench Spacing: 9' feet on center

Pump Tank Size: Ex. 1,200 gallons

Maximum Trench Depth: 14" inches

Soil Cover: 6" inches

Trench Width: 36" inches

Distribution Method: ☐ Serial ☐ D-Box or Parallel ☒ Pressure Manifold ☐ Other: _____Artificial Drainage Required: Yes ☐ No ☒ If yes, please specify details: _____Management Entity Required: ☐ Yes ☒ No Minimum O&M Requirements: _____

Permit conditions: _____

Follow the Engineers Design for Replacing Drop Boxes with Pressure Manifold, and Replacing the Pump Panel Box with a Aqua Panel Box as shown on Design. Environmental Health Discovers the Bottom Line has only 3" of Cover due to Potential Grading or Cutting. Will Require the Appropriate 6" of Cover Needed. This will need to be Demonstrated During Inspection.

The requirements of 15A NCAC 18E are incorporated by reference into this permit and shall be met. Systems shall be installed in accordance with the attached site sketch. This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The Construction Authorization shall not be affected by a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of 15A NCAC 18E, or 15A NCAC 18A .1900, as applicable, and to the conditions of this permit.

Authorized Agent's Printed Name: Ren Levocz

Date: 10/03/25

Authorized Agent's Signature:

Expiration Date: 10/03/2030

Owner/Legal Representative Signature: _____

Date: _____

***See attached site sketch**

Harnett County Environmental Health

SITE SKETCH

PIN 0663-51-6864.000

Permit Number EH2507-0007

GOUDEAU BENJAMIN RUSSELL & GOUDEAU ALISSA MARIE

HONEYCUTT HILLS Lot 23

Applicant's Name

Ren Levocz

Subdivision/Section/Lot Number

10/03/2025

Authorized State Agent

Date

System components represent approximate contours only. The contractor must flag the system prior to beginning the installation to ensure that the proper grade is maintained.

Scale = NTS

* Follow Engineers Design Attached.

The Following will be Required

*Use the Engineers Design to Replace Drop Boxes with Pressure Manifold, and Replace the Pump Panel Box with a Aqua Panel Box as shown on Design.

*Environmental Health Discovered the Bottom Line has only 3" of Cover due to Potential Grading or Cutting. Will Require the Appropriate 6" of Cover Needed. This will need to be Demonstrated During Inspection.



Central Carolina Soil Consulting, PLLC

1900 South Main Street, Suite 110

Wake Forest, NC 27587

919-569-6704

September 16, 2025

Job # 3806

DRB Group
Christian St. James
1101 Slater Road
Suite 300
Durham, NC 27703

RE: Site meeting at lot 23, Honeycutt Hills SD, Harnett County, NC.

Dear Mr. James:

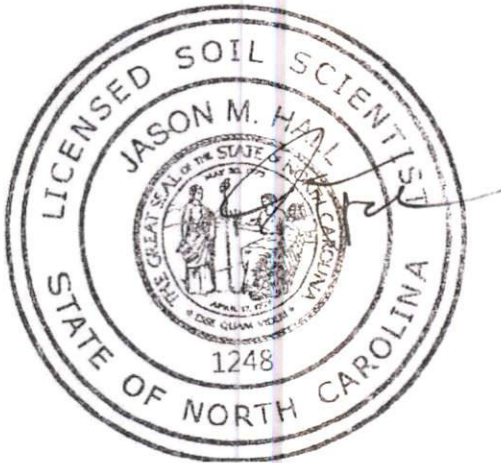
Central Carolina Soil Consulting, PLLC met with you and others from DRB Group at lot 23 in Honeycutt Hills SD due to previous effluent surfacing on the lot. Per the Construction Authorization completed by the Harnett County HD, the lot has a daily flow rate of 360 gal/day (3-bedroom) with a horizontal panel block drainfield. The system is pressure dosed with serial distribution (using drop boxes per paperwork provided). No effluent was surfacing on the date of the site meeting (8-19-25), although areas in the front yard showed evidence of previous effluent surfacing.

The installer mentioned to CCSC that some of the lines had been crushed after the initial installation and a partial repair had been completed. Central Carolina Soil recommends to install a manifold box with taps (see tap chart) to feed each of the 5 lines individually to better disperse the effluent. Additionally, the current control panel shall be replaced with an Aquaworx control panel to control the dosing of the system. The flow shall be split between 4 cycles per day (every 4 hours) away from a larger demand dose system. Water records need to be taken on the lot to ensure the system is not being over loaded based on the daily flow rate.

These proposed changes to the wastewater system need to be reviewed and have a permit issued by the Harnett County HD before installation. The recommended changes do not guarantee a fix to wastewater system, rather best professional judgement by CCSC. No soils work was completed on lot 23 on 8-19-25.

If you have any questions regarding the findings on the attached map or in this report, please feel free contact me at anytime. Thank you allowing Central Carolina Soil Consulting to perform this site evaluation for you.

Sincerely,



Jason Hall
NC Licensed Soil Scientist #1248
AOWE # 10004

Encl: tap chart, County Permit

Honeycutt Hills lot 23

T&J Panel Block, Tap Chart (Initial System)

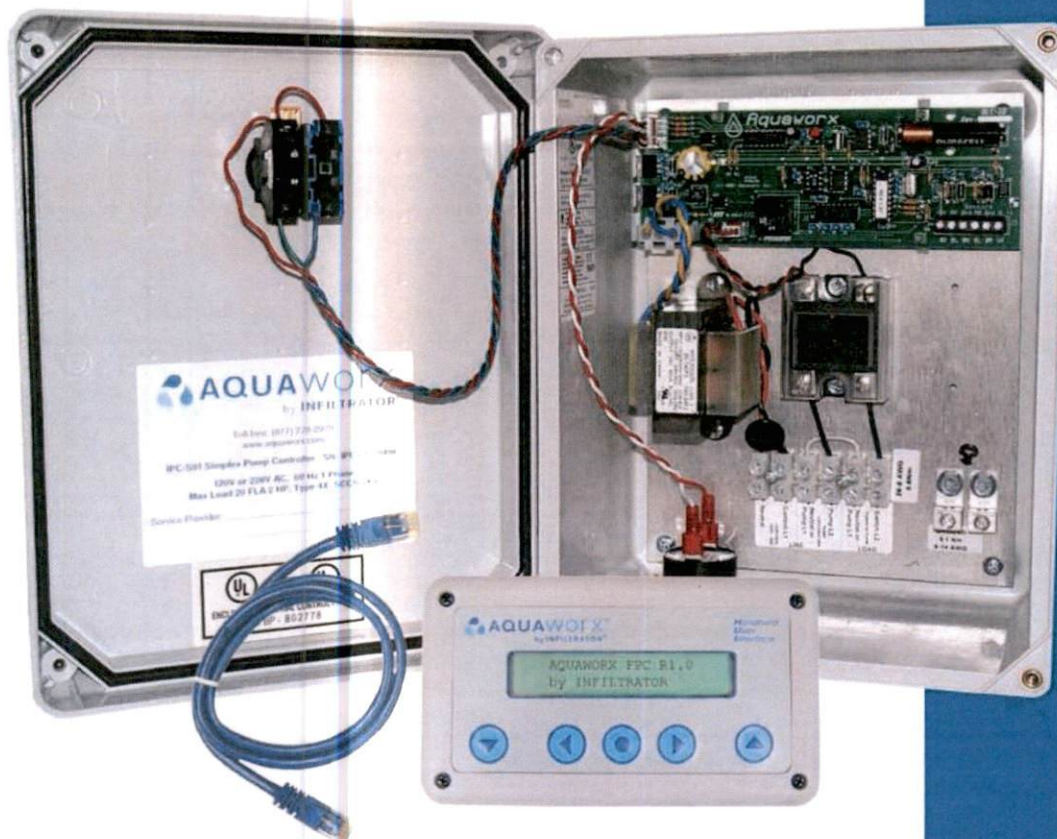
Bench Mark:		is = 100.00		Location of BM:		Elevation Head:		2.30				
Pump tank elev.		100.00		Pump elev.		94.60		Manifold elevation:		96.90		
line	color	4	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	# of Panels	Spacing of Panels (in)	Feet of 1.5in PVC
1		4.10	95.90	30	1/2in SCH 80	5.48	51.55	90	0.5728	7	4.8	24
2		4.30	95.70	65	3/4in SCH 80	10.1	95.01	195	0.4872	15	5.6	56
3		4.40	95.60	55	3/4in SCH 80	10.1	95.01	165	0.5758	13	4.4	48
4		4.60	95.40	50	1/2in SCH 40	7.11	66.88	150	0.4459	12	3.7	44
5		4.80	95.20	40	1/2in SCH 80	5.48	51.55	120	0.4296	9	6.6	32

		total		feet =	240	gal/min =	38.27	Total Number of Panels:		56	T&J Panel Block Orientation:		Horizontal
								LTAR =		0.3000			
% of Dose Volume		0		Des. Flow		360		LTAR + %5		0.3150			
Dose Volume		201.60		Pump Run=		9.41		(ltar W/ INOV)		0.6000			
Dose Pump Time		5.27		Tank Gal/IN		19.65		(ltar W/ INOV + 5%)		0.6300			
Drawdown in Inches		10.26											
				Backfill Sand Needed:		40.8 tons		Total Footage of 1.5in PVC:		204			
				backfill sand needed + 5%:		42.84 tons							



IPC™ Panels Installation Manual

MAR-04



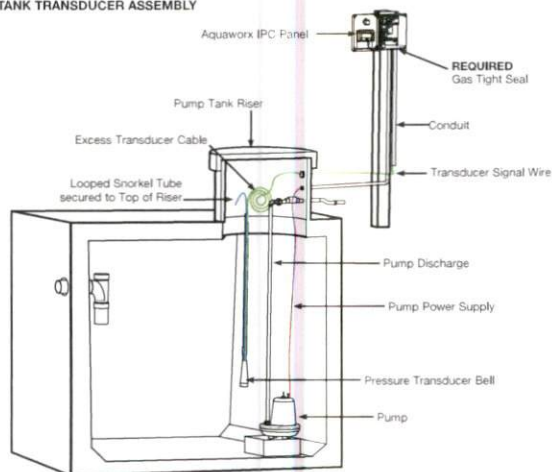
To download
the complete manual
visit
www.aquaworx.com

AQUAWORX IPC PANEL INSTALLATION INSTRUCTIONS

The Aquaworx IPC (Intelligent Pump Control) Panel provides an innovative approach to pump control. Designed specifically for the onsite industry, the IPC Panel leverages simple pressure transducer technology for the enhancement of pump system performance, and ease of installation. Relying on an embedded microprocessor in the pump controller and a floatless pressure transducer in the pump chamber, the IPC Panel monitors liquid levels, controls pumping time intervals, and logs events in real time. Using the Mountable and Removable Controller (MARC) as the user interface, the IPC Panel offers a cost-effective solution with expanded capability.

Aquaworx offers three models of the IPC Panel: Simplex, Duplex and Sand Filter, to meet a variety of system design requirements. The Simplex Panel has the ability to time control a single pump, while the Duplex Panel can control two pumps in an alternating design with independent timing. The Sand Filter Panel has the ability to time control two individual pumps having independent level sensors, allowing for a design which can time-dose a treatment system and drainfield.

FIGURE 1: PUMP TANK TRANSDUCER ASSEMBLY



I. General

Unpack the Aquaworx IPC Panel and check for any visible damage both external and internal. Also verify that there are no cracks or damage to the pressure transducer bell. Note: You will need to identify the number on the pressure transducer bell as it is needed during the MARC setup. Notify Aquaworx immediately at 1-877-278-2979 if any damage has occurred.

ALL INSTALLATIONS MUST BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODE.

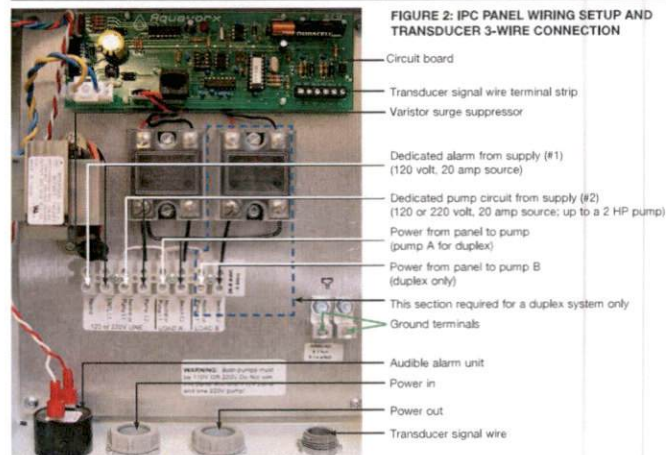
AQUAWORX IPC PANEL INSTALLATION INSTRUCTIONS

II. Installing the IPC Panel

NOTE: A qualified electrician must perform all wiring. Complete wiring diagram available at www.aquaworx.com

The following components and tools may be required for installation:

- Screwdriver (sm and med size flat head)
- Pipe cutter and tape measure
- Fish tape
- Wire strippers/cutters
- Electrical tester
- Drill
- 3/4" to 1" screws
- 1" PVC coupler
- Step bit
- Hole saw
- Electrical conduit
- Electrical tape
- Splice box for pump connection
- Waterproof wire connectors
- 1" PVC (for transducer handle, amount determined by tank depth (6' length typical))



1. Mount the IPC Panel to the wall or post. Position the IPC Panel so that the power supply enters the IPC Panel through the bottom approximately 1" to the right of the audible alarm unit.

2. On Simplex Panels drill two holes (3 holes for duplex) in the bottom of the enclosure spaced approximately 2" apart and in line with the audible alarm unit. When facing the panel, the order of conduit connections from left to right is shown below, as well as illustrated in Figure 2:

Power in: 2 dedicated 20 amp circuits from house to power the panel, 120V (1) and pump, 120V or 220V(2)

Power out: Power supply from panel to pump

Transducer signal wire: Signal transmission from panel to pump

NEMA 4X fittings must be installed in each field-drilled hole to retain the integrity of the enclosure's 4X rating.

III. MARC CONTROLLER SETUP

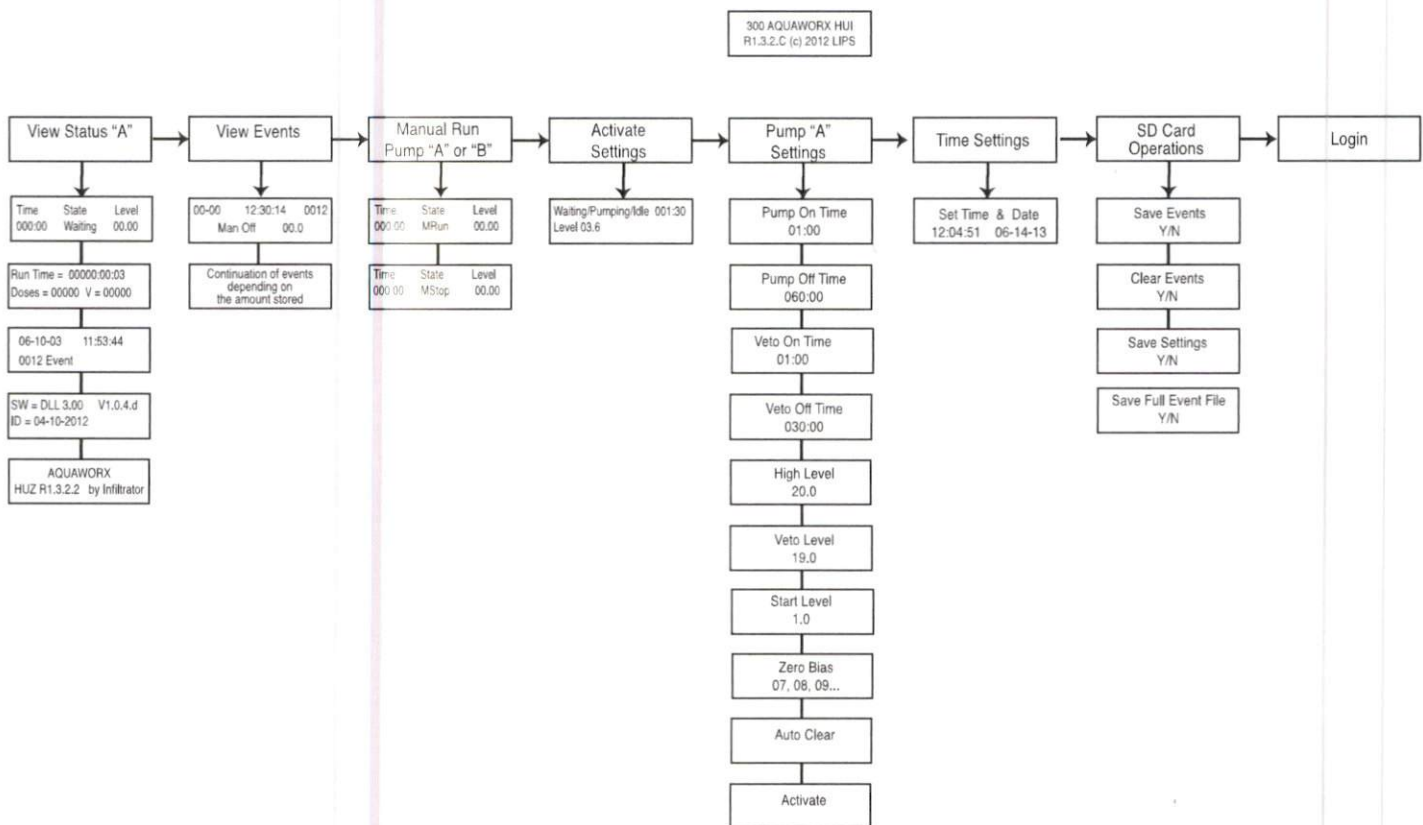
The MARC will power up and log in when plugged into the control panel. Upon power up the MARC will recognize the panel model and Mode settings and initiate the proper software.

A system flow chart for a simplex panel is presented below. Menu categories are listed across the top of the flow chart. To move laterally press the +,- or the right/ left pointing arrows. To enter a menu category item tap the "Enter" or down pointing arrow. To exit a menu category tap the up or exit button.

Duplex systems controlling two pumps will have a similar flow pattern with the addition of View Status B, Manual Run B and Pump B Settings.

Press "Enter" or the down button to enter each menu option. Once in a menu option press the +,- or the right/ left pointing arrows to navigate the menu options. "Enter" is also used to turn pumps On & Off in the manual mode and when finished making a change to a setting or value.

FIGURE 3: MARC SIMPLEX MENU OPTIONS MAPPING



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U.S. Patents: 4,759,661; 5,017,041; 5,156,488; 5,336,017; 5,401,116; 5,401,459; 5,511,903; 5,716,163; 5,588,778; 5,839,844 Canadian Patents: 1,329,959; 2,004,564 Other patents pending. Infiltrator, Equalizer, Quick4, and SideWinder are registered trademarks of Infiltrator Systems Inc. Infiltrator is a registered trademark in France. Infiltrator Systems Inc. is a registered trademark in Mexico. Contour, MicroLeaching, PolyTuff, ChamberSpacer, MultiPort, PosiLock, QuickCut, QuickPlay, SnapLock and StraightLock are trademarks of Infiltrator Systems Inc. PolyLok is a trademark of PolyLok, Inc. TUF-TITE is a registered trademark of TUF-TITE, INC. Ultra-Rib is a trademark of IPEX Inc.

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Contact Infiltrator Systems' Technical Services Department for assistance at 1-800-221-4436