#### **ADDENDUM NO. 3**

**DATE:** July 31, 2025 **PROJECT NO:** RFB 2025-007

**PROJECT:** Howey-in-the-Hills Water Treatment Plant No. 3

# ALL PROSPECTIVE BIDDERS ARE HEREBY NOTIFIED OF THE CHANGES OR ALTERATIONS IN THE ABOVE-REFERENCED PROJECT

#### **General Information:**

- The Town is sole sourcing the chlorination gas feeder and detection system as supplied by Guardian Equipment, Inc. Bidders shall utilize the equipment price quote provided by Guardian Equipment, Inc.
- Specification Section 11345 Gas Detection System is now obsolete. Gas detection system is included in the revised Specification Section 11245.
- Septic Tank shall be a minimum of 900 gallons and the drain field shall have a minimum of 334 square foot bed.

#### **Attachments:**

- 1. Revised Specification Section 11245.
- 2. Scope and Quote from Guardian Equipment for Section 11245 Gas Feeder.
- 3. FDOH Onsite Sewage Treatment and Disposal System Construction Permit and associated attachments.

## ALL BIDDERS ARE REQUESTED TO ACKNOWLEDGE RECEIPT OF THIS ADDENDUM BY SIGNING BELOW AND SUBMITTING THE BID.

#### **ACKNOWLEDGE RECEIPT- ADDENDUM NO. 3**

NAME OF BIDDER		
SIGNATURE		
TITLE	DATE	

#### SECTION 11245 GAS FEEDER

#### PART 1 - GENERAL

#### 1.01 COMPLETENESS

A. The system shall be complete with all components, equipment, and appurtenances.

#### 1.02 QUALITY ASSURANCE

A. All materials and components shall be new and unused of first quality by well-known manufacturers. Inferior materials or components shall not be allowed.

#### PART 2 - MANUFACTURER

#### 2.01 MANUFACTURER

A. The manufacturer of the gas chlorination equipment shall be Hydro Instruments, Telford, PA, USA.

#### PART 3 – CHLORINATION SYSTEM

#### 3.01 GENERAL

- A. The Chlorination system shall be a vacuum operated, solution feed, and automatic switchover type for dispensing chlorine gas from industry standard one hundred fifty (150) pound cylinders.
- B. The Chlorination system shall have a chlorine gas feed capacity of not less than 250 PPD (pounds per day).
- C. The system shall convey the gas under vacuum from the cylinder mounted vacuum regulators to the ejector assemblies.
- D. The chlorination system shall automatically switch the gas supply from an empty cylinder to a full one to maintain an uninterrupted supply of chlorine to maintain continuous disinfection of the water.
- E. The system design shall permit the entire system to be vacuum checked in the field without the use of special tools.
- F. The system shall be constructed of materials suitable for wet or dry chlorine gas service.

#### 3.02 CYLINDER MOUNTED VACUUM REGULATORS

- A. The four (4) vacuum regulators shall mount directly on the gas cylinder valve by means of a closed, corrosion resistant yoke assembly that complies with the standards set forth by The Chlorine Institute, Inc. The sealing of these mating surfaces shall be achieved using a lead gasket.
- B. Each Vacuum Regulator shall have a maximum feed rate capacity of 250 PPD.
- C. Each vacuum regulator shall use an inlet capsule constructed of solid Hastelloy C-276 material, which shall carry a lifetime warranty.
- D. Each vacuum regulator shall have its bodies machined from solid PVC to avoid cracking and for maximum durability.

- E. Injection molded PVC or ABS body parts (which possess insufficient wall thickness), shall not be accepted.
- F. Vacuum regulator springs shall be Tantalum alloy and shall carry a lifetime warranty.
- G. Each vacuum regulator shall have a two-layer ECTFE (Halar) diaphragm, which controls vacuum and a spring loaded, normally closed inlet valve, which closes upon loss of vacuum.
- H. Each regulator shall possess an internal switchover mechanism to automatically shift from standby to inservice upon depletion of the on-line cylinder. The regulators shall have a clear status indicator (standby or in-service).
- I. Each regulator shall incorporate a pressure relief (vent) valve with separate ports for chlorine feed and chlorine vent. Connections and tubing shall be provided for venting gas away from the pressure relief (vent) port of each vacuum regulator to the outside atmosphere (outside of the building). The outside end of the vent tubing shall be equipped with an insect screen.
- J. Each regulator shall be equipped with a porous PTFE inlet filter to remove particulate matter from the gas before it enters the inlet safety valve.
- K. Each regulator shall be designed to accept an optional flow meter tube to indicate feed rate and which cylinder is in use.
- L. Each regulator shall have a mechanism to indicate when the cylinder is empty and requires replacement.

#### **MANUFACTURER**

The manufacturer shall be Hydro Instruments, Telford, PA, USA. The vacuum regulator shall be Hydro Instruments Model SVR-250-CL2.

#### 3.03 GAS FLOW METER

A. Three (3) gas flow meters shall be provided to indicate the gas flow rate. The gas flow meter shall be suitable for wall mounting.

Location	Feed Rate
Well No.5	100 PPD
Well No.6	100 PPD
Post Chlorination	100 PPD

- B. The gas flow meters shall be equipped with a rate control valve for manual feed rate adjustment.
- C. Flow meter tubes shall be a minimum of six (6) inches in length and indicate flow rates up to their maximum capacity and down to a minimum of 1/10 of the maximum value.

#### MANUFACTURER

The manufacturer shall be Hydro Instruments, Telford, PA, USA. The gas flow meter shall be Hydro Instruments Model RM-702.

#### 3.04 AUTOMATIC CONTROL VALVE (CHLORINATOR)

#### A. General

1. One (1) automatic control valve (chlorinator) shall be provided to control the chlorine gas feed.

Location	Feed Rate
Post Chlorination	100 PPD

- 2. The automatic control valve shall be comprised of a PID controller and variable area orifice rate valve. These devices shall be incorporated into one compact unit.
- 3. The microprocessor based automatic control valve shall adjust the gas feed rate based on up to three analog input signals or by means of one to four 12-24VDC inputs.
- 4. The automatic control valve shall allow for the following standard, field selectable control modes:
  - a Manual
  - b. Proportional control (Flow)
  - c. Set-Point control (Residual/ORP)
  - d. Compound Loop control (PID)
  - e. Step-Feed control
  - f. Dual Input Feed Forward control
  - g. Dual Set-Point control
- 5. Motion of the valve shall be achieved by means of a linear stepper motor.
- 6. Motion control shall be achieved without the use of a feedback potentiometer.
- 7. To ensure accurate feed rates throughout the range of operation, the software shall incorporate a 10-point valve linearization calibration.

#### B. Construction

- 1. The automatic valve shall be housed in a NEMA4X (IP66) rated enclosure.
- 2. Materials of construction shall be of the finest available for the use of chlorine gas.
- 3. For accurate feed rate control, the length of the variable area orifice portion of the rate valve stem shall be no less than 1.5 inches.
- 4. The automatic valve shall be installed onto a ½" thick high density polypropylene (HDPE) panel suitable for wall mounting.

#### C. User Interface

- 1. The automatic control valve shall include a 2-line, 20-character, alphanumeric, LCD display.
- 2. User controls shall be through a front panel 4-button keypad.
- 3. Menus and variables shall be displayed in plain English words using easy to read, alphanumeric characters for clear understanding.
- 4. Control mode and parameters shall be password protected and adjustable through the keypad while displayed on the screen.

#### D. Inputs and Outputs

- 1. The automatic control valve shall include three (3) analog input channels.
- 2. Each analog input signal shall be independently user selectable as either 4-20mA or 0-10V.

- 3. The first input channel shall be used only for proportional (flow) input signals. The second input channel shall be used only for set point (residual or ORP) input signals. The third input channel shall be used for one of the following:
  - a. Remote adjustment of dosage
  - b. Remote adjustment of set-point
  - c. Remote valve positioning
  - d. Additional input for Dual Set-Point control
- 4. Four 12-24VDC inputs shall be provided. These inputs can be used for:
  - a. Step-Feed control
  - b. External control of AUTO or MANUAL modes
  - External control of DUTY or STANDBY modes
- 5. Two (2) relay outputs shall be provided for remote indication of alarm conditions or indication of whether the valve is in AUTO or MANUAL mode. The use of these relays is user adjustable.
- 6. Two 4-20 mA output signals, proportional to the chemical feed rate, shall be provided.
- 7. The automatic control valve shall have a half-duplex, two wire interface type connection for Modbus RS-485 communication.

#### E. Remote Meter Panel

One (1) remote meter panel shall be incorporated into the assembly to indicate the gas flow rate.
 NOTE: REFER TO SECTION 3.3 FOR DETAILS.

#### F. Bypass Piping Arrangement

- 1. The automatic control valve shall be provided with a bypass piping and valve arrangement to allow for the selection of automatic feed control or bypass (manual) feed control. The selection of manual feed control shall isolate the automatic control valve.
- 2. The bypass piping arrangement shall be constructed of socket welded schedule 80 PVC pipe and pipe fittings.
- 3. The three (3) bypass valves shall be constructed with seals of suitable material for chlorine gas application.

#### G. Electronic Vacuum Monitoring

1. An electronic vacuum monitor shall be supplied and installed on the panel. The vacuum monitor shall have the following features:

Input Voltage: 90-265 VAC, 50/60 Hz @ 0.1 Amps

Alarm Relays (SPDT)

240V AC at 5 Amps Resistive

115V AC at 5 Amps General Use

30V DC at 5 Amps General Use

Enclosure: NEMA 4X

Vacuum Measurement range: 0 to 30 in. Hg.

Low Alarm range: 0 to 15 in. Hg.

High Alarm range: 15 to 30 in. Hg.

Over Pressure: 85 PSI

Delay Timer: 1 to 100 seconds

**Analog Output** 

Voltage: 0-3 VDC

Current: 0-3 mA DC (standard) or 4-20 mA DC with optional mA transmitter board installed

Reset Switch: IP 65 protection

External connectors: IP 68 protection

Indicators

Vacuum: 3 digit digital LED display

Alarms: 3 LED indicators – High, Low and Latch

Polarity: 1 LED

#### MANUFACTURER

The manufacturer shall be Hydro Instruments, Telford, PA, USA. The automatic control valve shall be Hydro Instruments Model WPOV-110.

#### 3.05 EJECTORS

- A. A total of three (3) ejectors shall be supplied. The ejector shall be water operated Venturi nozzle type. The Ejector shall provide the operating vacuum for the chlorination system.
- B. The ejector shall incorporate a spring loaded, normally closed check valve to prevent the backflow of water into the chlorine gas equipment. The check valve shall be suitable for backpressures of no less than 140 psi.
- C. The ejector check valve shall automatically close upon the loss of vacuum in the ejector.
- D. Each ejector shall have body parts machined from solid PVC stock for maximum durability and to avoid cracking.

Injection molded PVC or ABS body parts (which possess insufficient wall thickness), shall not be accepted.

Location	Size	Nozzle/Throat	Feed Rate
Well No.5	3/4"	#12	100 PPD
Well No.6	3/4"	#12	100 PPD
Post Chlorination	3/4"	#12	100 PPD

E. The ejectors shall be installed with a water inlet assemblies consisting of a true union ball valve, y-strainer, pressure gauge and union.

#### MANUFACTURER

The manufacturer shall be Hydro Instruments, Telford, PA, USA. The ejector shall be Hydro Instruments Model EJO-100-CL2. The water inlet assembly shall be Hydro Instruments Model WIA-PVC-100-BV.

#### 3.06 GAUGES

- A. Furnish and install gauges where shown on the plans.
- B. All gauges shall be diaphragm protected and suitable for chlorine gas service.

#### **MANUFACTURER**

The manufacturer shall be Hydro Instruments, Telford, PA, USA or approved equal.

#### 3.07 MAINTENANCE

- A. Furnish operation & maintenance manuals with pertinent parts drawings for all equipment.
- B. Where required, provide one (1) set of special tools for complete assembly and/or disassembly of system components for each type specified.
- C. Spare Parts Provide spare parts and maintenance kits in accordance with manufacturer's recommendations for the following items:
  - 1. Vacuum regulators
  - 2. Automatic control valve
  - 3. Gas flow meter
  - 4. Ejector

#### PART 4 - GAS ALARM

#### 4.01 AUTOMATIC CONTROL VALVE (CHLORINATOR)

- A. The gas detector shall be a device including a monitor and up to sixteen electrochemical gas sensors.
- B. The gas detector shall include a microprocessor-based monitor operating the electrochemical sensors.
- C. The microprocessor-based monitor shall be enclosed in a NEMA 4X (IP66) rated housing. The monitor shall include a two (2) line twenty (20) character, alphanumeric, backlit, liquid crystal, display, one alarm LED, a 90 dB audible alarm, and four front panel push buttons.
- D. For every four gas sensors ordered, an additional enclosure will be provided. The single display will be mounted in the main enclosure (sensor enclosure 1-4). All enclosures will be mounted on a wall panel for easy access.
- E. A self-diagnostic alarm shall be provided to detect any communication errors for the electrical hardware.
- F. Alteration of the gas detector settings shall be password protected.
- G. The gas detector monitor shall include an external acknowledge contact input to allow remote acknowledgement of alarms.
- H. The gas detector shall provide an RS-485 (Modbus) digital output signal to allow external recording of the gas detector readings and alarms.
- I. The gas detector shall provide an isolated 4-20 mA output signal for each sensor.

- J. A standard twenty-five (25) feet of shielded signal cable shall be provided to connect each sensor to the monitor. Additional cable lengths may be provided up to 300 ft. as required.
- K. The gas detector shall operate from 85 to 264 Volts (50-60 Hz) AC Power.

#### 4.01 ALARM RELAYS

- A. The gas detector shall be provided with two selectable common alarm outputs standard. These two common alarm outputs shall be capable of monitoring the following conditions: any sensor low, any sensor high, any sensor signal loss, AC power loss, and low battery.
- B. For every four sensors ordered an additional eight relays shall be provided.
- C. The two adjustable relays per sensor shall indicate low-level alarm reading (odd relays) and high-level alarm reading (even relays). The low and high level settings shall be adjustable using the password protected keypad/display interface. Each relay may also be programmed to indicate: any sensor low, any sensor high, any signal loss, AC power loss, and low battery.
- D. The high-level alarm relay shall be user selected as either latching or non-latching and either failsafe or non-failsafe.
- E. The low-level and common alarm relays shall always be non-latching and non-failsafe.
- F. Relays shall be dry contacts and rated for a maximum power of 10 A at 250 VAC / 10A at 24 VDC.

#### 4.02 GAS SENSORS

- A. All gas sensors will be of the electrochemical type capable of monitoring the specified gas.
- B. All gas sensors will operate with a 4-20 mA output loop powered signal.
- C. The chlorine gas sensor will have a measurement range of 0.0 to 10.0 ppm and a resolution of 0.1 ppm.
- D. The chlorine gas sensors will have a zero drift of less than 0.03 PPM change per year and an accuracy of within +/- 0.2 PPM.
- E. The gas sensor response time will allow the reading to reach 90% of scale within 30 seconds or less.
- F. The gas sensor recovery time will be such that after exposure to the target gas, the sensor reading will recover to 90% or less within 3 minutes or less.
- G. The gas sensors will not require the addition or replacement of electrolyte.
- H. Gas sensor and transmitter boards will be housed in a NEMA4X enclosure.

#### 4.03 BATTERY BACKUP

- A. The gas alarm will be capable of including an integral battery backup. The integral battery backup will be mounted inside the monitor and enabled or disabled in the password protected setup.
- B. The battery backup will be able to power the gas alarm without AC power for at least 12 hours. For units using more than four sensors, one battery will be provided for each set of four sensors.

#### 4.04 TEMPERATURE MONITORING

- A. The gas alarm monitor will be capable of monitoring and displaying air temperature with up to two (2) Type K thermocouples.
- B. The Type K thermocouple will have ten (10) feet of shielded copper wire provided to connect to the monitor.

- C. The monitor will provide two (2) adjustable temperature alarm trip points. One rising alarm for high temperature and one falling alarm for low temperature.
- D. One (1) dedicated alarm relay will be provided for high temperature alarm indication. The common alarm relays and gas sensor alarm relays will be programmable to also indicate a high temperature alarm or a low temperature alarm.

#### 4.05 DATA LOGGING

- A. The gas alarm will be capable of automatically recording and storing data for: Date, Time, Gas sensor reading and Temperature.
- B. The frequency at which data is collected and stored will be adjustable, with a minimum setting of every 5 seconds.
- C. Data will be written to and stored on a MicroSDHC memory card. The memory card will be installed and physically accessed from inside the gas alarm monitor without the need for perforations in the enclosure that would compromise its NEMA (IP) rating.
- D. Data will be written in a comma separated value format and able to be read by simple text readers and able to be imported into spreadsheet programs.

#### **MANUFACTURER**

The manufacturer shall be Hydro Instruments, Telford, PA, USA. The gas alarm shall be Hydro Instruments Model GA-180.

#### PART 5 – GAS ALARM

#### 5.01 INSTALLATION

A. Install equipment and accessories in accordance with manufacturer's recommendations.

#### 5.02 SERVICES

- A. Provide on-site startup, operator training and final equipment adjustment services for a minimum of one day. These services shall be provided by a factory trained and certified technician.
- B. Installing contractor must have a minimum of 5 years of experience installing gaseous chlorination systems and provide at least three references.
- C. Demolition of existing system(s) and installation of the new chlorination system(s) must be coordinated with the City of Howey. If necessary, the successful bidder / installer shall provide a temporary chlorination system to ensure that the treatment system can provide disinfected potable water to the City without interruption.

#### **END OF SECTION**



## **GUARDIAN EQUIPMENT, INC.**

330 Hickman Drive, Sanford, FL 32771 PH:888-928-3700 / 407-936-2216 FX:407-936-2217

July 29th, 2025

Ref: Howey-in-the-Hills Water Treatment Plant No. 3 Project No. 055783.001 Owner/Bid No. RFB2025-007

Ladies & Gentlemen:

We are pleased to offer the following information for your review and consideration.

#### **SECTION 11245 GAS FEEDER**

ONE (1) WPOV-110-C-3-100M6-2-0-M Hydro Instruments Wall Panel Omni Valve <sup>1</sup>/<sub>2</sub>" NPT Inlet/Outlet, Flowmeter & V-Notch Stem, Manual Bypass w/ vacuum monitor, 6" Meter

TWO (2) RM-702-CL2 Hydro Instruments 100 PPD 6" Remote Meter Panel

### FOUR (4) SVR-250-CL2-250-0-US-0 Hydro Instruments Automatic Switchover Vacuum Regulator 250 PPD

25' vacuum tubing, 25' vent tubing, 10 lead gasket, vent tube insect screen & cap, small squeeze bottle for ammonia (ammonia not included), filter media, twisted cylinder wrench

#### THREE (3) Hydro Instruments EJH-250-CL2 Injector

#### TWO (2) Force Flow Model GR150-2 Electronic Dual Chlor-Scale 150

2-Channel SOLO G2 Digital Indicator w/4-20mA Outputs, PVC Platforms, Chaining Brackets, Electronic Load Cells

#### TWO (2) Hydro Instruments VM-150 Vacuum Monitor

1/4" ID Tube Barb Vacuum Connection, 0-30" Hg, Adjustable Alarms, 90-265VAC

#### **ONE (1) Lot of Spare Parts**

Kit # KT9-250-CL2 Vacuum Regulator Kit – two each Kit # KTI-250-OV Omni Valve Kit – two each Kit # MPH-250-CL2 – Meter Kit – two each

#### **SECTION 11345 GAS DETECTION SYSTEM**

#### ONE (1) Hydro Instruments GA-180 Gas Detector, Model GA-180-1-0-0-0-1-2-1-1-1

One Sensor, battery back-up, light and horn, 25' sensor cable, 120V AC input

#### ONE (1) Hydro Instruments GA-AL-110 Remote alarm light with 90 dB horn (120VAC)

#### **ASSOCIATED ACCESSORIES**

#### TWO (2) 0-160 PSI Pressure Gauges

Stainless steel body, 2-1/2" dial

#### TWO (2) 0-160 PSI Pressure Gauges with Isolators

½" CPVC Isolator, stainless steel body, 2-1/2" dial

#### THREE (3) 3/4" Thick White Polypropylene Mounting Panels

(2) 4' x 8' (1) 8' x 2'

#### ONE (1) 3" Wye-Strainer Hayward

Sch 80 PVC, Grey

#### ONE (1) 2" Wye-Strainer Hayward

Sch 80 PVC, Grey

#### TWO (2) 1" ASCO Solenoid Valves 8210G004-120V

120 VAC, Normally Closed

#### **THREE (3) Hydro Instruments Injection Quill**

1-1/2" corporation stop, 1" Sch 80 PVC quill

#### ONE (1) 2" Asahi True Union Ball Valve

Sch 80 PVC/Viton

#### EIGHT (8) 1/2" Asahi True Union Ball Valves

Sch 80 PVC/Viton

#### SIXTEEN (16) 1/2" Asahi True Union Ball Valves

Sch 80 PVC/Viton

#### **ONE (1) Booster Pump Goulds 25GBC10**

1" Discharge, 1" Suction, NPT, 1 HP, 1 Phase, 115/230V, 3500 RPM, ODP, 7 Stage, Cast Iron, GB Series

TOTAL FOR ABOVE	\$47,000.00
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\*Guardian Equipment does not offer the Halogen valve shut off system.

- Freight has been included.
- No sales or use taxes have been included.
- Start up and training has been included in the above pricing.
- Please allow 4-6 weeks for delivery after receipt of approved submittals.

Please feel free to contact me if you have any questions.

Sincerely,

Alan Cliburn/Kim Newman

Guardian Equipment Inc.



## STATE OF FLORIDA DEPARTMENT OF HEALTH ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM

PERMIT #: 3	35-ST-3167460
APPLICATION #: /	AP2239982
DATE PAID: _	
FEE PAID: _	
RECEIPT #:_	

DOCUMENT #: PR2295685

CONSTRUCTION PERMIT

CONSTRUCTION PERMIT	FOR: OSTDS New			
APPLICANT: (TOWN	OF HOWEY IN THE HILL	.S-WTP#3 BLG)	-	
· · · ·	CR 48 Howey In The			
LOT:		SUBDIVISION:	METES & BOUNDS	
<b>PROPERTY ID #:</b> 301	8273		[SECTION, TOWNSHIP, RANG [OR TAX ID NUMBER]	GE, PARCEL NUMBER]
SATISFACTORY PERFO WHICH SERVED AS PERMIT APPLICATION ISSUANCE OF THIS	RMANCE FOR ANY S A BASIS FOR ISSUE	F.A.C. DEPART PECIFIC PERIOD ANCE OF THIS P. IONS MAY RESULT EXEMPT THE APP	MENT APPROVAL OF SYST OF TIME. ANY CHANG ERMIT, REQUIRE THE AP IN THIS PERMIT BEING PLICANT FROM COMPLIANCE	E IN MATERIAL FACTS, PLICANT TO MODIFY THE MADE NULL AND VOID.
SYSTEM DESIGN AND SE	PECIFICATIONS			
A [ ] GALLO N [ ] GALLON		CAPACITY [MAXIMU		
	FEET [*] STANDARD [	SYSTEM [] FILLED	MOUND []	
N F LOCATION OF BENCHM			.64' NAVD)	
I ELEVATION OF PROPO	SED SYSTEM SITE	[ 43.00 ] [ INCHES	FT ] [ ABOVE / BELOW BENC	
	LD TO BE	[ 73.00 ] [ INCHES	FT ] [ ABOVE / BELOW ] BENC	HMARK/REFERENCE POINT
L D FILL REQUIRED:	[ 0.00 ] INCHES	EXCAVATION REQU	TIRED: [ ] INCHES	
0				
н				
E				
R				
SPECIFICATIONS BY:	John Gharles Katsan	tonis '	FITLE: Owner	
APPROVED BY:	Steven Bunkley	TITLE: Environme	ental Specialist I	Lake CHD
DATE ISSUED:	07/28/2025		EXPIRATION	DATE: 01/28/2027
DEP 4015, 06-21-2022 Incorporated 62-6.00	· -	editions which ma	y not be used)	Page 1 of 3



#### STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM (OSTDS)

WESTICKLION FOR	CONSTRUCTION	PERMIT		
APPLICATION FOR:    X   New System     Exist:     Repair     Abando	ing System	[ ] Holding Tank [ ] Innovative [ ]		
APPLICANT: Town of Howey in t	the Hills - WTF	P #3 blg jkenvironmental@gmail.com		
AGENT: JK ENVIRONMENTAL	SERVICES, L	LC TELEPHONE: 352-406-6879		
MAILING ADDRESS: PO BOX 2107				
APPLICANT'S RESPONSIBILITY TO PRO	489.105(3)(m) O OVIDE DOCUMENTAT	ORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED OR 489.552, FLORIDA STATUTES. IT IS THE FION OF THE DATE THE LOT WAS CREATED OR OF STATUTORY GRANDFATHER PROVISIONS.		
PROPERTY INFORMATION		OSTDS REMEDIATION PLAN? [Y/🕅]		
LOT: N/A BLOCK: N/A SUBDI	VISION: METE	S & BOUNDS PLATTED: N/A		
		ING: A I/M OR EQUIVALENT: [Y/N]		
· · · · · · · · · · · · · · · · · · ·		PRIVATE PUBLIC [ ]<=2000GPD [ x ]>2000GPD		
IS SEWER AVAILABLE AS PER 381.00	65, FS? [ Y / 🔞	DISTANCE TO SEWER: >500 FT		
PROPERTY ADDRESS: COUNTY RO		EY IN THE HILLS, FL 34737		
DIRECTIONS TO PROPERTY: -SEE MAP-				
BUILDING INFORMATION [	] RESIDENTIAL	(x) COMMERCIAL		
Unit Type of No. No. Establishment Bed	of Buildin hrooms Area Sq	ng Commercial/Institutional System Design off Table I, Chapter 62-6, FAC		
<sub>1</sub> Proposed water N/	'A 3,814	-This is for a building housing the water		
treatment plant blg		treatment plant no. 3 for the town, including		
3		-Includes 198 sf office (30 gpd) or max.4		
4		employees (60 gpd). Therefore use min.200		
		gpd for system sizing (62-6fac)		
[ ] Floor/Equipment Drains [	] Other (Spec	eify)		
SIGNATURE: SKILL	<u> </u>	DATE: 6115105		

DEP 4015, 06-21-2022 (Obsoletes previous editions which may not be used)



## STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM

PERMIT	NO.		

#### SITE EVALUATION AND SYSTEM SPECIFICATIONS

			SPECIF ICATIO		
APPLICANT: Town of I	Howey in the Hills - W	TP #3 blg	AGENT:	JK ENVIRONMENTAL SERV	ICES, LLC
LOT: N/A BLOC	ck: <u>N/A</u>	SUBDIVISION:	METES & BOUNDS		
PROPERTY ID #: 30°	18273		[Section/To	wnship/Parcel No. or	Tax ID Number
			· ·	THER QUALIFIED PERSON OF SUBMITTAL. COMPLET	
TOTAL ESTIMATED SI	EWAGE FLOW: 200	(MIN. PER 62-6 FA	C) GALLONS PE	ABLE AREA AVAILABLE: R DAY TABLE I / OTHE [1500 GPD/ACRE OR 2500 TED AREA REQUIRED: 350	R]
BENCHMARK/REFERENCE ELEVATION OF PROPO				37.64' NAVD) TE/BELOW] BENCHMARK/RE	FERENCE POINT
SURFACE WATER: N/A WELLS: PUBLIC: 200 BUILDING FOUNDATION SITE SUBJECT TO FI 10 YEAR FLOOD ELEV	FT DI  OH FT LIMI  ONS: 5+ FT  REQUENT FLOODING  VATION FOR SITE	TCHES/SWALES: TED USE: N/A PROPERTY LINE	15+ FT PRIVATE ES: 10+ FT  [×] NO FT MSL/NGVD		] YES [x] NO BLE: N/A FT NES: 20+ FT  ] YES [x] NOFT MSL/NGVI
SOIL PROFILE INFOF	***************************************				
MUNSELL #/COLOR 10YR 4/1	SAND	0 TO 3	MUNSELL # 10YR 2/1	SAND	0 TO 3
10YR 5/4	SAND	3 TO 8	10YR 3/2		3 TO 8
10 11 ( 5/4 10 YR 6/6	SAND	8 TO 72	10 / R 6/6	SAND	8 TO 72
		TO	<u></u>	· · · · · · · · · · · · · · · · · · ·	TO
		TO			TO
		TO			ТО
		TO			TO
		TO			
		TO			TO
USDA SOIL SERIES	: 8-CANDLER SAN	D, 0-5% SLOPES	USDA SOII	SERIES: 8-CANDLER SAM	ND, 0-5% SLOPES
ESTIMATED WET SEA: HIGH WATER TABLE ' SOIL TEXTURE/LOAD:	SON WATER TABLE VEGETATION: [ ] ING RATE FOR SY	E ELEVATION: <u>}</u>   YES [x] NO   STEM SIZING: _	WSWT INDICATOR  0.80 (SAND)	: [ ] YES [x] NO DED  DEPTH OF EXCAVATION:	ISTING GRADE PTH: N/A INCHES N/A INCHES
DRAINFIELD CONFIGUREMARKS/ADDITIONAL				CIFY)	
SITE EVALUATED BY				DATE:	6/1/25

Incorporated: 62-6.004, FAC Page 3 of 4



## AUTHORIZATION LETTER (Please print)

I TOWN OF HOWEY IN THE HILLS	ner of property)
(ow	ner of property)
authorization toJK ENVIRONMENTAL (n	SERVICES LLC ame of agent)
to act on my behalf in all aspects of an ap	plication for an Onsite Sewage Treatment &
Disposal System.	
(OSTDS) for lot N/A Block N/A Subdivision METES & BOUNDS	Unit N/A
Subdivision METES & BOUNDS Section 23 Township 20 Alternate Key # 3946511	Range
Metes & Bounds (Please attach legal desc	ription)
Signature of Owner	1/9/2025
Signature of Owner	'Date
If any questions please call (352) 253-6130 mailed or hand delivered to:	). This form can be Faxed to (352) 253-6133 or,
Lake County Environmental Healt 315 W. Main Street P.O. Box 1305	h
Tavares, FL 32778	
Authorization 10/2005	
REVISED 05/14/2007	EHShare/OSTDS Forms/Authorization Letter 2007

### Lake County Health Department Septic System Permit Application Addendum

Any features marked "Yes" below must be indicated on the site plan. Failure to indicate such features will cause your application to be delayed. For "new" or "existing evaluations" the site plan MUST be to scale. All site plans must show all property dimensions.

1. Are there any public wells within 200' of your property line?	YesNo_✓
2. Are there any EXISTING OR PROPOSED wells on your property?	Yes ✓ No
3. Are there any neighboring wells within 75' of your property line?	YesNo
4. Are there any EXISTING OR PROPOSED septic systems on your property?	Yes_No_
5. Are there any existing NEIGHBORING septic systems within 75' of your property?	YesNo
6. Are there bodies of water on or within 100' of your property line? Included are any lakes, streams, canals or standing water bodies.	Yes_No_
7. Are there any drainage features on or within 100' of your property? Included are any ditches, swales or water retention areas.	Yes No
8. Are there any easements or right-of-ways that are <u>on or abut</u> your property?	Yes_No_
9. Are there any EXISTING OR PROPOSED driveways, sidewalks, pools or other impervious areas on your property?	Yes <u>✓</u> No
10. Is there any slope on your property?  What is the slope? 1-3 % (eg 1' fall in 100' is 1% slope)	Yes_No_
11. Is the property served by public water? If so, mark the location of the water meter and service line into the house.	Yes_No_ (FUBLIC WELL)

#### PROPERTY RECORD CARD

#### General Information

Name:	TOWN OF HOWEY	Alternate Key:	3946511
Mailing Address:	PO BOX 128 HOWEY IN THE HILLS, FL 34737- 0128	Parcel Number: •	23-20-25-0004- 000-01400
		Millage Group and City:	000H Howey in the Hills
		2024 Total Certified Millage Rate:	20.5764
		Trash/Recycling/Water/Info:	My Public Services Map <b>⊕</b>
Property Location:	COUNTY ROAD 48 HOWEY IN THE HILLS FL, 34737	Property Name:	Submit Property Name
		School Information:	School Locator & Bus Stop Map & School Boundary Maps &
		WEST CORNER OF THE SOUTHWE	
	53-14 EAST 1171.08 WAY LINE OF COUL CONCAVE NORTHE A CHORD BEARING FEET, THENCE ALC SAID NORTHERLY EAST ALONG SAID A OINT OF CURVAT	ISHIP 20 SOUTH RANGE 25 EAST R  FEET TO A POINT ON THE NORTH NTY ROAD 48, SAID POINT LYING C  EASTERLY HAVING A RADIUS OF 56  AND DISTANCE OF SOUTH 69-35-  ONG THE ARC OF SAID CURVE TO  RIGHT OF WAY LINE 1188.29 FEET,  NORTHERLY RIGHT OF WAY LINE  TURE OF A CURVE CONCAVE SOUT  OF 2341.83 FEET AND A CHORD BE	ERLY RIGHT OF ON A CURVE 579.58 FEET AND 43 EAST 1186.12 THE LEFT AND SOUTH 75-35-20 1460.31 FEET TO THWESTERLY

Property

BEGINNING, THENCE LEAVING SAID NORTHERLY RIGHT OF WAY LINE Description: NORTH 15-36-38 EAST 52.62 FEET, NORTH 75-08-12 EAST 258.80 FEET, NORTH 75-51-45 EAST 298,35 FEET TO A POINT OF CURVATURE OF A CURVE CONCAVE NORTHWESTERLY HAVING A RADIUS OF 133.42 FEET AND A CHORD BEARING AND DISTANCE OF NORTH 62-15-27 EAST 62.77 FEET, THENCE ALONG THE ARC OF SAID CURVE TO THE LEFT, A DISTANCE OF 63.36 FEET, THENCE SOUTH 41-20-52 EAST 270.88 FEET TO A POINT ON THE NORTHERLY RIGHT OF WAY LINE OF STATE ROAD 19, THENCE SOUTH 75-06-54 WEST ALONG SAID NORTHERLY RIGHT OF WAY LINE 531.94 FEET TO A POINT ON THE NORTHERLY RIGHT OF WAY LINE OF COUNTY ROAD 48 AND A POINT ON A CURVE CONCAVE SOUTHWESTERLY HAVING A RADIUS OF 2341.83 FEET AND A CHORD BEARING AND DISTANCE OF NORTH 66-12-04 WEST 299.49 FEET, THENCE ALONG THE ARC OF SAID CURVE TO THE LEFT AND ALONG SAID NORTHERLY RIGHT OF WAY LINE 299.69 FEET TO THE POINT OF BEGINNING ORB 6068 PG 2222

DISTANCE OF SOUTH 72-35-58 EAST 223.25 FEET, THENCE ALONG

THE ARC OF SAID CURVE TO THE RIGHT AND ALONG SAID NORTHERLY RIGHT OF WAY LINE 223,33 FEET TO THE POINT OF

NOTE: This property description is a condensed/abbreviated version of the original description as recorded on deeds or other legal instruments in the public records of the Lake County Clerk of Court. It may not include the Public Land Survey System's Section, Township, Range information or the county in which the property is located, it is intended to represent the land boundary only and does not include assements or other interests of record. This description should not be used for purposes of conveying property title. The Property Appraiser assumes no responsibility for the consequences of inappropriate uses or interpretations of the property description.

#### **Land Data**

Line Land Use	Frontage Depth Notes Units	Type Class Value	Land Value	
1900 1900 1900 1900 1900 1900 1900 1900	and accompanies that the contract of the contr		end of the control of	C 25

