

May 28, 2025

MEMORANDUM

TO: Jason Patterson, P.G., Senior Hydrogeologist, Environmental Flows and Levels Section

FROM: Tiffany Horstman, P.G., Senior Professional Geologist, Geohydrologic Data Section

SUBJECT: Central Florida Water Initiative Data, Monitoring, and Investigations Team Peace River at Ft. Meade Surficial Aquifer Monitor Well Construction Summary

The Southwest Florida Water Management District's (District) Geohydrologic Data Section was tasked to install a surficial aquifer monitor well at the Peace River at Ft. Meade well site in Polk County, Florida for the Central Florida Water Initiative (CFWI) Data, Monitoring, and Investigations Team (DMIT) (attachment 1). The well site is on a parcel of land granted by easement to the District by the City of Fort Meade (attachment 2). The CFWI DMIT will provide data to support minimum level research for three groundwater basins in five counties. Long-term water level data collected from this well will be available to relate changes in Peace River water levels to water level changes in the surficial aquifer due to groundwater withdrawals and will help ensure compliance with adopted minimum flows and levels.

National Environmental Technology, Incorporated (NET), installed the surficial aquifer monitor well on May 27, 2025, using a Geoprobe 7720DT (Geoprobe) drill rig and the hollow-stem auger method. NET used a post-hole digger to collect lithologic samples from land surface to 6 feet below land surface (bls) to ensure there were no underground utilities. Then, NET used the Geoprobe to advance a split-spoon sampler to collect continuous split-spoon samples from 6 to 20 feet bls. The samples were described by the on-site geologist (attachment 3). Wet sand was noted at 15 feet bls during sample collection; however, the well was dry after the well construction was completed.

After split-spoon sampling was completed, NET used 4.25-inch augers with a wooden plug on the bottom to drill an open hole to 15 feet bls. Next, NET installed the 2-inch, schedule 40, 0.010-inch slot, threaded, polyvinyl chloride (PVC) screen pre-packed with 20-40 silica sand from 5 to 15 feet bls, and 2-inch, schedule 40, threaded PVC casing from 3 feet above land surface to 5 feet bls. Then, NET installed 20-30 silica sand from 15 to 4 feet bls, 30-65 silica sand from 4 to 2 feet bls, and 20-30 silica sand from 2 to 0.5 feet bls while removing the augers and continuously tagging the sand depth with a tremie pipe. A locking metal well cover and a 2-foot by 2-foot by 6-inch concrete pad were placed around the well (attachments 4 and 5). A monitoring request was submitted to collect water level data.

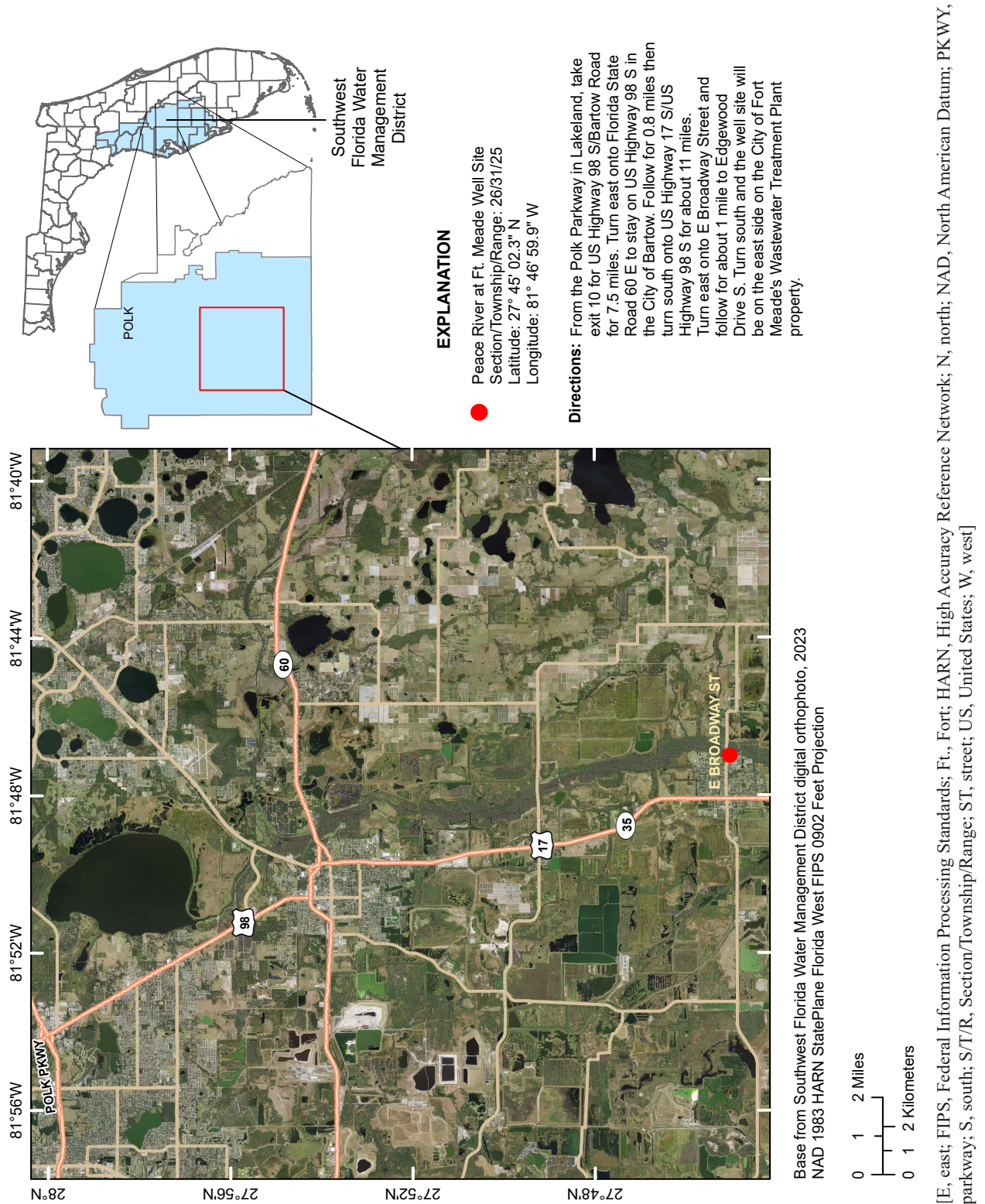
The following data are attached: maps showing the location and layout of the well site (attachment 1), easement agreement (attachment 2), the field lithologic log and photographs of the split-spoon samples collected at the well site (attachment 3), the well as-built diagram (attachment 4), a photograph of the finished well (attachment 5), and the daily drilling log detailing the well construction activities (attachment 6).

TMH
Attachments (6)

SUBJECT: Central Florida Water Initiative Data, Monitoring, and Investigations Team Peace River at Ft. Meade Surficial Aquifer Monitor Well Construction Summary

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Attachment 1

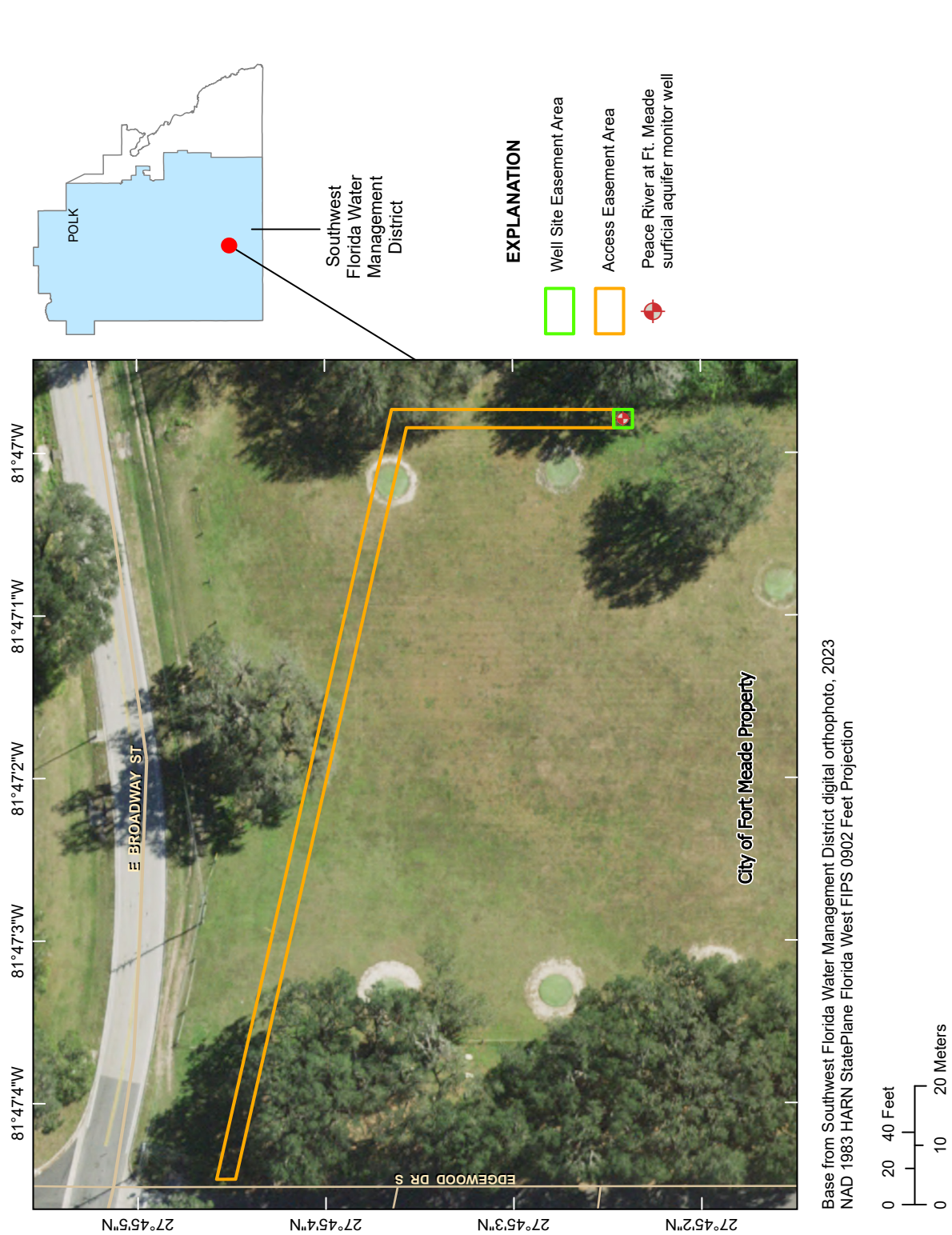


SUBJECT: Central Florida Water Initiative Data, Monitoring, and Investigations Team Peace River at Ft. Meade Surficial Aquifer Monitor Well Construction Summary

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Attachment 1



[DR, drive; E, east; FIPS, Federal Information Processing Standards; Ft., Fort; HARN, High Accuracy Reference Network; N, north; NAD, North American Datum; S, south; ST, street; W, west]

SUBJECT: Central Florida Water Initiative Data, Monitoring, and Investigations Team Peace River at Ft. Meade Surficial Aquifer Monitor Well Construction Summary

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Attachment 2

Prepared by:
Southwest Florida Water Management District
2379 Broad Street
Brooksville, FL 34604

Return recorded original to:
Southwest Florida Water Management District
2379 Broad Street
Brooksville, FL 34604
Attn. Land Resources Bureau

PERPETUAL EASEMENT

This Easement (this "Easement") is made and entered into this 14th day of January 2024, by and between the City of Fort Meade, a municipal corporation of Florida, having an address of 8 West Broadway Street, Fort Meade, FL 33841, hereinafter called "Grantor", and the Southwest Florida Water Management District, a public corporation, having an address of 2379 Broad Street, Brooksville, Florida 34604-6899, hereinafter referred to as "Grantee".

Grantor, for and in consideration of the sum of Ten Dollars and no cents (\$10.00) and other good and valuable consideration from Grantee to Grantor, the receipt and sufficiency of which are hereby acknowledged, hereby grants, bargains, sells and conveys to Grantee a non-exclusive, perpetual easement to enter upon, over and across and to use any and all lands more particularly described below solely for the following purposes:

- a. To construct, maintain, repair, or replace one monitoring well and data monitoring equipment over the land more particularly described on Exhibit "A" (the "Well Site Easement Area"); and
- b. For ingress and egress upon, over and across the land more particularly described on Exhibit "A" (the "Access Easement Area") to access the monitoring wells and equipment in order to perform hydrologic measurements.

Grantee shall exercise all of its rights contained in this Easement in the least intrusive manner so as not to interfere with Grantor's use of its property. Grantor reserves the right to use the Well Site Easement Area and Access Easement Area in any manner not inconsistent with this Easement; provided, however, that Grantor shall avoid physically disturbing the well casing or cover (water meter box) of the monitoring well or wells in any way. Grantee hereby agrees to restore the Access Easement Area to the same condition as it was prior to any construction, maintenance, repair, or access by Grantee.

Grantee hereby agrees to protect, indemnify, and hold harmless the Grantor from and against any and all liabilities, losses, damages or expenses, reasonable attorneys' fees and costs, whether incurred out of court or in litigation including fees and costs incurred for representation on appeals, expert witness fees and costs for paralegal assistance, arising on account of, relating to, in connection with loss of life, bodily injury or damage to property, arising out of the use of the Well Site Easement Area or the Access Easement Area by the Grantee and its contractors and agents, except to the extent such liability is finally judicially determined to directly arise from the willful misconduct or negligence of the Grantor. Upon receiving knowledge of any suit, claim or demand asserted by a third party that Grantor believes is

Page 1 of 6

Peace River at Fort Meade Data Collection Site
SWF Parcel No. 20-020-189

Attachment 2

covered by this indemnity, the Grantor shall give the Grantee notice of the matter. Any failure or delay of the Grantor to notify the Grantee of any such suit, claim or demand shall not relieve the Grantee of its obligations under this provision but shall reduce such obligations to the extent of any increase in those obligations caused solely by any such failure or delay. This provision shall not be construed as a waiver of Grantee's sovereign immunity for torts or an extension of such liability beyond the limits established in Section 768.28, F.S.

All provisions of this instrument, including the benefits and burdens, run with the land and are binding upon and inure to the benefit of the respective assigns, successors, and tenants of the parties hereto. This Easement may be amended or modified only by an instrument signed by Grantor and Grantee.

The formation, interpretation and performance of this Easement shall be construed pursuant to and governed by the laws of the State of Florida. In the event of any dispute arising out of this Easement or any instrument given in connection herewith, or in the event it shall become necessary for any party to employ counsel to protect the party under this Easement or any instrument given in connection herewith, the prevailing party shall be entitled to recover reasonable attorneys' fees and costs, whether incurred out of court or in litigation including fees and costs incurred for representation on appeals, expert witness fees and costs for paralegal assistance, to the extent permitted under Section 768.28, F.S. This provision does not constitute a waiver of the Grantee's sovereign immunity or extend the Grantee's liability beyond the limits established in Section 768.28, F.S.

This grant shall not constitute a dedication to the public, and no parties shall have any rights or entitlements pursuant to the terms of this Easement except as specifically set forth herein.

[signature pages follow]

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IN WITNESS WHEREOF, Grantor has caused these presents to be executed the day and year first written above.

Grantor:

Signed, sealed and delivered
in the presence of:

City of Fort Meade

[Signature]
Witness #1 signature

Markeisha Smith Interim City Attorney
Print Witness #1 name

[Signature]
Witness #2 signature

Melissa Cannon Deputy City Clerk
Print Witness #2 name

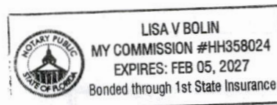
By: [Signature]
Name: Samuel Berrien
Title: Mayor

ACKNOWLEDGMENT

STATE OF FLORIDA
COUNTY OF Polk

The foregoing instrument was acknowledged before me this 14 day of January 2025, by Samuel Berrien. He/She ☒ is personally known to me or has produced _____ as identification.

(Seal)



[Signature]
Name of Notary
Lisa V. Bolin
(Name of Notary typed, printed or stamped)

Commission No. AH358024
My Commission
Expires: FEB. 5, 2027

SUBJECT: Central Florida Water Initiative Data, Monitoring, and Investigations Team Peace River at Ft. Meade Surficial Aquifer Monitor Well Construction Summary

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Attachment 2

IN WITNESS WHEREOF, Grantee has caused these presents to be executed in its name by its Governing Board acting by the Chair or Vice Chair of said board, the day and year aforesaid.

Grantee:

Southwest Florida Water Management District

By Michelle Williamson
Name: Michelle Williamson
Title: Chair

ACKNOWLEDGMENT

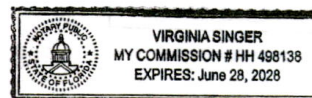
STATE OF FLORIDA
COUNTY OF Hillsborough

The foregoing instrument was acknowledged before me this 19 day of November 2024, by Michelle Williamson as Chair, for the Southwest Florida Water Management District, a public corporation, on behalf of the Southwest Florida Water Management District. He/She ☒ is personally known to me or has produced _____ as identification.

(Seal)

Virginia Singer
Name of Notary
Virginia Singer
(Name of Notary typed, printed or stamped)

Commission No. 14498138
My Commission
Expires: June 28, 2028



SUBJECT: Central Florida Water Initiative Data, Monitoring, and Investigations Team Peace River at Ft. Meade Surficial Aquifer Monitor Well Construction Summary

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Attachment 2

IN WITNESS WHEREOF, Grantee has caused these presents to be executed in its name by its Governing Board acting by the Secretary of said board, the day and year aforesaid.

Grantee:

Southwest Florida Water Management District

By: [Signature]
Name: Paul J. Bispham
Title: Secretary

ACKNOWLEDGMENT

STATE OF FLORIDA
COUNTY OF Hillsborough

The foregoing instrument was acknowledged before me this 19 day of November 2024, by Paul Bispham, as Secretary, for the Southwest Florida Water Management District, a public corporation, on behalf of the Southwest Florida Water Management District. He/She ☒ is personally known to me or has produced _____ as identification.

(Seal)

Virginia Singer
Name of Notary

Virginia Singer
(Name of Notary typed, printed or stamped)

Commission No. HH 498138

My Commission

Expires: June 28, 2028



Attachment 2

EXHIBIT "A"

Legal Description Parcel 20-020-189 (Well Site Easement Area)

A parcel of land lying and being in the Southeast 1/4 of Section 26, Township 31 South, Range 25 East, Polk County, Florida, being more particularly described as follows:

COMMENCE at a found 5/8" iron rod (no identification) marking the Southwest corner of the Southeast 1/4 of Section 26, Township 31 South, Range 25 East, Polk County, Florida; thence coincident with the West Boundary of the Southeast 1/4 of said Section 26, N 00°07'10" W a distance of 1168.78 feet; thence departing said West Boundary, S 90°00'00" E a distance of 178.12 feet to a point marking the intersection of East Right-of-way Boundary of Edgewood Drive with the South Right-of-way Boundary of East Broadway Street per Florida Department of Transportation Section 16040-000; thence departing said East Right-of-way Boundary, coincident with said South Right-of-way Boundary, S 77°32'40" E a distance of 435.69 feet; thence departing said South Right-of-way Boundary, S 00°00'00" E a distance of 119.47 feet to the POINT OF BEGINNING; thence S 00°00'00" E a distance of 10.00 feet; thence N 90°00'00" W a distance of 10.00 feet; thence N 00°00'00" W a distance of 10.00 feet; thence S 90°00'00" E a distance of 10.00 feet to the POINT OF BEGINNING.

Containing an area of 100.00 square feet, 0.002 acres, more or less.

Legal Description Parcel 20-020-189 (Access Easement Area)

A strip of land lying and being in the Southeast 1/4 of Section 26, Township 31 South, Range 25 East, Polk County, Florida, being more particularly described as follows:

COMMENCE at a found 5/8" iron rod (no identification) marking the Southwest corner of the Southeast 1/4 of Section 26, Township 31 South, Range 25 East, Polk County, Florida; thence coincident with the West Boundary of the Southeast 1/4 of said Section 26, N 00°07'10" W a distance of 1168.78 feet; thence departing said West Boundary, S 90°00'00" E a distance of 178.12 feet to a point marking the intersection of East Right-of-way Boundary of Edgewood Drive with the South Right-of-way Boundary of East Broadway Street per Florida Department of Transportation Section 16040-000, said point also being the POINT OF BEGINNING; thence departing said East Right-of-way Boundary, coincident with said South Right-of-way Boundary, S 77°32'40" E a distance of 435.69 feet; thence departing said South Right-of-way Boundary, S 00°00'00" E a distance of 119.47 feet; thence N 90°00'00" W a distance of 10.00 feet; thence N 00°00'00" W a distance of 111.44 feet to a point coincident with a line being 10.00 feet South of and parallel to said South Right-of-way boundary; thence coincident with said South parallel line, N 77°32'40" W a distance of 425.40 feet to a point coincident with the aforesaid East Right-of-way Boundary of Edgewood Drive; thence departing said South parallel line, coincident with said East Right-of-way boundary, N 00°13'42" W a distance of 10.25 feet to the POINT OF BEGINNING.

Containing an area of 5460.01 square feet, 0.125 acres, more or less.

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Attachment 2

Sketch & Description
Peace River at Ft Meade CFWI DMIT
Permanent Easement
Section 26, Township 31 South, Range 25 East
Polk County, Florida

Permanent Easement: As Written by SurvTech Solutions

A parcel of land lying and being in the Southeast 1/4 of Section 26, Township 31 South, Range 25 East, Polk County, Florida, being more particularly described as follows:

COMMENCE at a found 5/8" iron rod (no identification) marking the Southwest corner of the Southeast 1/4 of Section 26, Township 31 South, Range 25 East, Polk County, Florida; thence coincident with the West Boundary of the Southeast 1/4 of said Section 26, N 00°07'10" W a distance of 1168.78 feet; thence departing said West Boundary, S 90°00'00" E a distance of 178.12 feet to a point marking the intersection of East Right-of-way Boundary of Edgewood Drive with the South Right-of-way Boundary of East Broadway Street per Florida Department of Transportation Section 16040-000; thence departing said East Right-of-way Boundary, coincident with said South Right-of-way Boundary, S 77°32'40" E a distance of 435.69 feet; thence departing said South Right-of-way Boundary, S 00°00'00" E a distance of 119.47 feet to the POINT OF BEGINNING; thence S 00°00'00" E a distance of 10.00 feet; thence N 90°00'00" W a distance of 10.00 feet; thence N 00°00'00" W a distance of 10.00 feet; thence S 90°00'00" E a distance of 10.00 feet to the POINT OF BEGINNING.

Containing an area of 100.00 square feet, 0.002 acres, more or less.

Legend

●	Found Iron Rod or Pipe
PSM	Professional Surveyor and Mapper
Id.	Identification
LB	Licensed Business
FDOT	Florida Department of Transportation

SURVEY NOTES:

- 1.) Paper copies of this survey are not valid without the original signature and raised seal of a Florida Licensed Surveyor and Mapper. Digital copies are not valid without the digital signature of a Florida Licensed Surveyor and Mapper.
- 2.) The bearing structure for this survey is based on a Florida West State Plane grid bearing of N 89°52'17" E for the South Boundary of the SE 1/4 of Section 26-31S-25E.
- 3.) THIS IS NOT A BOUNDARY SURVEY.

Stacy L. Brown P.S.M. No. 6516
SurvTech Solutions, Inc. LB No. 7340

Drafted By: T. McClintic
Date Drafted: 05/09/24

Approved By: S. Brown
Date Approved: 05/17/24

Last Field Date: 03/21/24
Field Book/Page: 24-06/44

Project No.: 240419
Ref. No.: N/A

Drawing Name: 240419_SK1
Revision Date: 08/13/24

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SURVTECH SOLUTIONS, INC. SURVEYORS AND MAPPERS

10220 U.S. Highway 92 East, Tampa, FL 33610

phone: (813)-621-4929, fax: (813)-621-7194, Licensed Business #7340

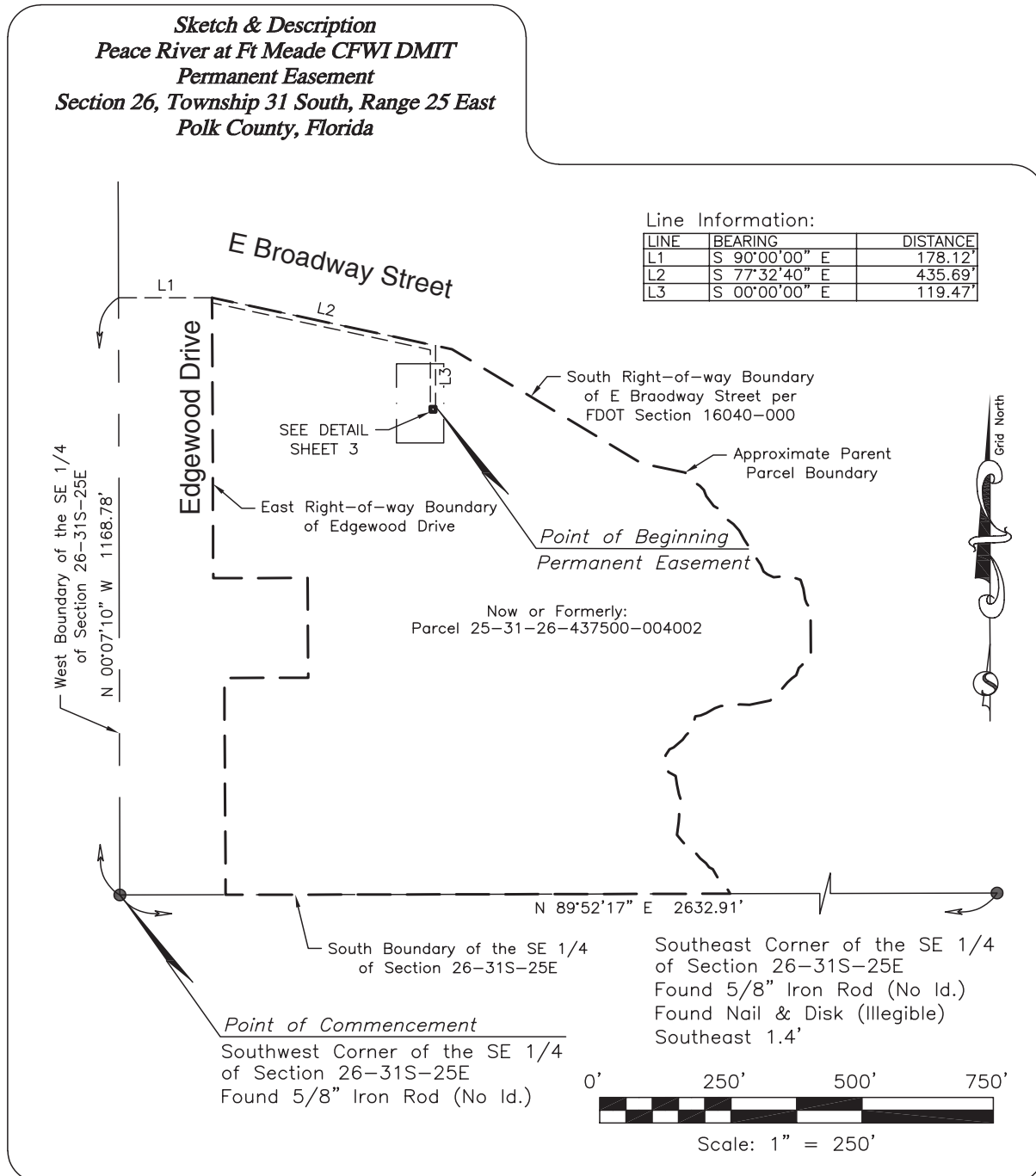
email: sbrown@survtechsolutions.com <http://www.survtechsolutions.com>

SUBJECT: Central Florida Water Initiative Data, Monitoring, and Investigations Team Peace River at Ft. Meade Surficial Aquifer Monitor Well Construction Summary

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PROJECT NO.: 240419
REF. No.: N/A
LAST FIELD DATE: 03/21/24



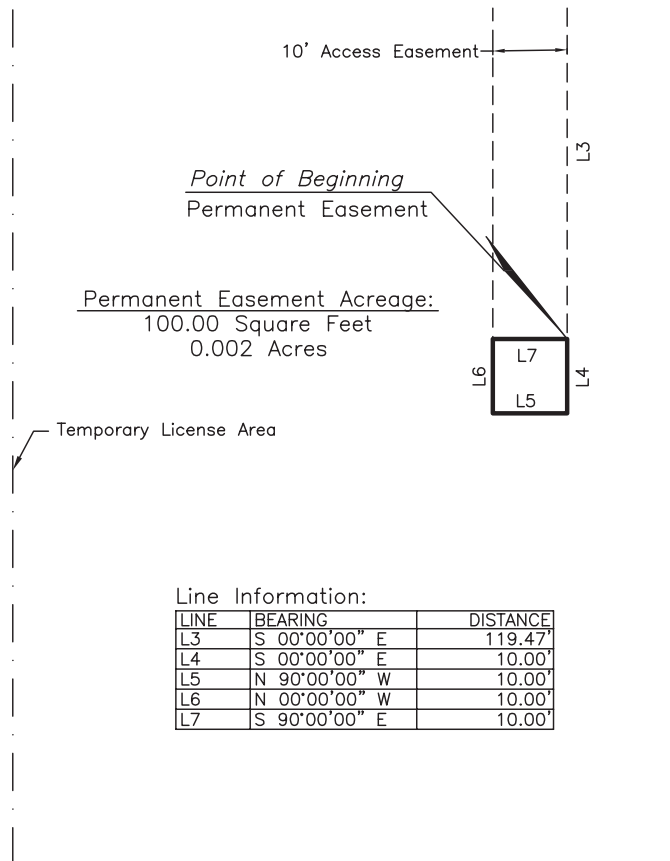
SURVTECH SOLUTIONS, INC. SURVEYORS AND MAPPERS
10220 U.S. Highway 92 East, Tampa, FL 33610
phone: (813)-621-4929, fax: (813)-621-7194, Licensed Business #7340
email: sbrown@survtechsolutions.com <http://www.survtechsolutions.com>

Date Plotted: 8/15/2024 12:31:04 PM By: Tim McClintic

Drawing Name: 240419_SK1 Revised 08/13/24 SHEET: 2 OF 3

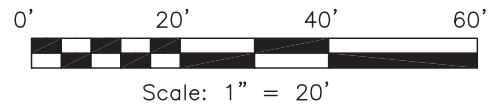
Attachment 2

Sketch & Description
Peace River at Ft Meade CFWI DMIT
Permanent Easement
Section 26, Township 31 South, Range 25 East
Polk County, Florida



Line Information:

LINE	BEARING	DISTANCE
L3	S 00°00'00" E	119.47'
L4	S 00°00'00" E	10.00'
L5	N 90°00'00" W	10.00'
L6	N 00°00'00" W	10.00'
L7	S 90°00'00" E	10.00'



PROJECT NO.: 240419
REF. No.: N/A
LAST FIELD DATE: 03/21/24



SURVTECH SOLUTIONS, INC. SURVEYORS AND MAPPERS
10220 U.S. Highway 92 East, Tampa, FL 33610
phone: (813)-621-4929, fax: (813)-621-7194, Licensed Business #7340
email: sbrown@survtechsolutions.com <http://www.survtechsolutions.com>

Attachment 3

HYDROGEOLOGY FIELD LOG

Site Name: Peace River at Ft. Meade

Geologist: Tiffany Horstman/Bethanie Brown

Page: 1 of 2

Date (MM/DD/YYYY)	Box No.	Geology	Hydrogeology	Hydrostrat.	Depth (ft bis)	Recovery (%)	Lithology	Porosity (%)	Description	Test Interval	Comments	Comments (Driller)
5/27/2025	1	und			0 - 2				Sand, grayish brown, fine to medium grained, round and subangular grains, organics, roots			
5/27/2025	1	if			2 - 3				Sand, dark yellowish brown, fine to coarse grained, sand concretions			
5/27/2025	1	er			3 - 4				Sand, moderate yellowish brown, fine to medium grained			
5/27/2025	1	nt			4 - 6				Sand, grayish orange, fine-grained, sand concretions, subangular grains			
5/27/2025	1	ted			6 - 7				Sand, dark yellowish orange, fine-grained			
5/27/2025	1	sab			7 - 8.5				Sand, slightly clayey, dark yellowish orange mixed with grayish orange, fine-grained			
5/27/2025	1&2	and			8.5 - 12.5				Sand, very pale orange, coarse-grained with silt			
5/27/2025	2	cy			12.5 - 13.5				Sand, moderately clayey, very pale orange, coarse-grained with silt			
5/27/2025	2				13.5 - 14				Sand, moderately clayey, grayish orange, coarse-grained with silt			

[Ft., ft bis, feet below land surface; Hydrostrat., hydrostratigraphy; MM/DD/YYYY, month/day/year; No., number]

Attachment 3

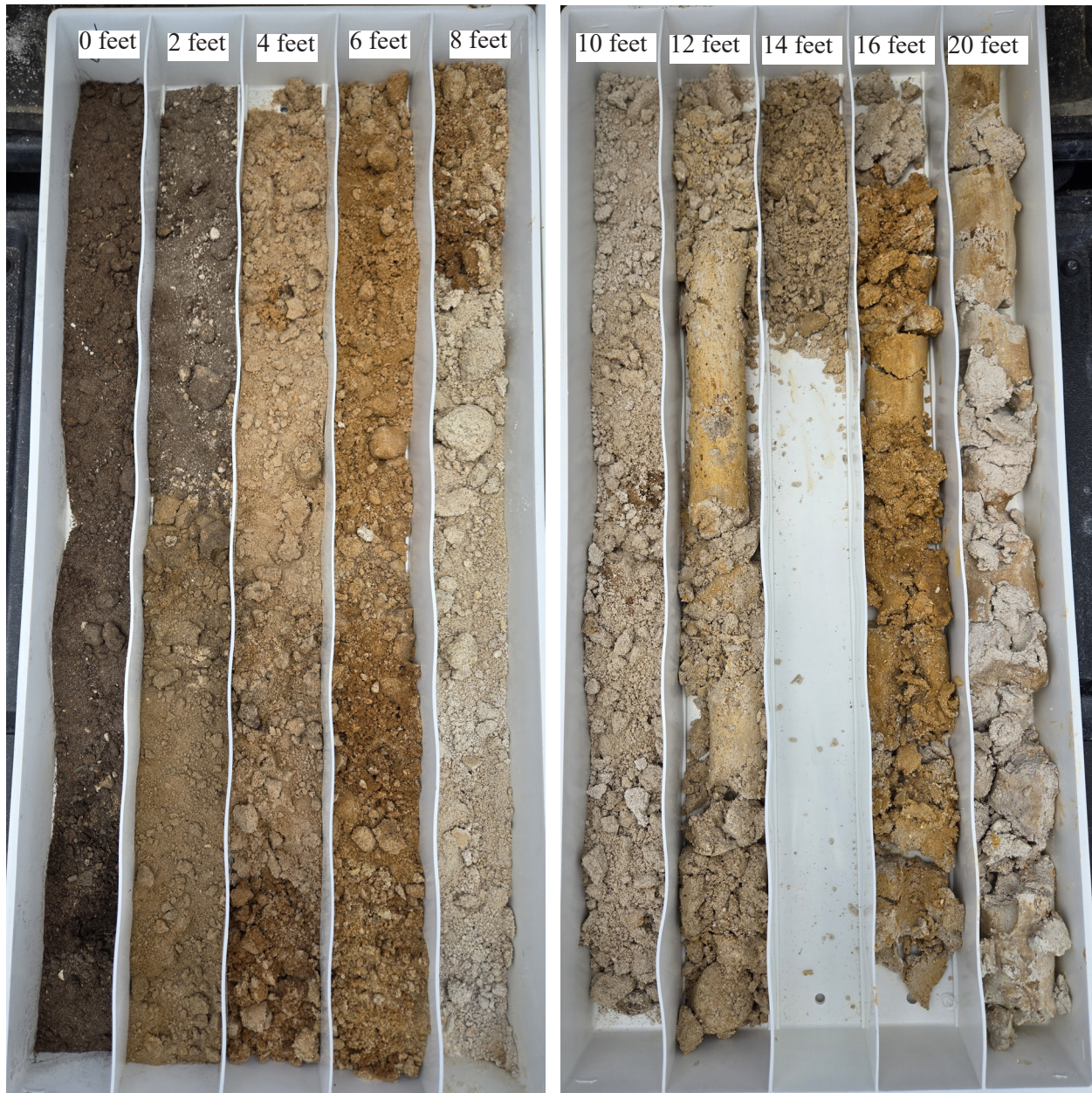
HYDROGEOLOGY FIELD LOG
 Site Name: Peace River at Ft. Meade
 Geologist: Tiffany Horstman/Bethanie Brown

Page: 2 of 2

Date (MM/DD/YYYY)	Box No.	Geology	Hydrogeology	Hydrostrat.	Depth (ft bls)	Recovery (%)	Lithology	Porosity (%)	Description	Test Interval	Comments	Comments (Driller)
5/27/2025	2	undiff	perm	SA	14 - 16				Sand, very pale orange, coursed-grained with silt		Moist sediments at 15 feet bls	
5/27/2025	2	sand	not	conf	16 - 18				Sand, very clayey, grayish orange to dark yellowish orange, coarse-grained			
5/27/2025	2	and	perm	conf	18 - 19.5				Sand, very clayey, very pale orange, medium-grained			
5/27/2025	2	clay	bl	un	19.5 - 20				Clay, sandy, very pale orange, medium-grained			
									Lithologic sampling total depth is 20 feet			

[Ft., Fort; ft bls, feet below land surface; Hydrostrat., hydrostratigraphy; MM/DD/YYYY, month/day/year; No., number; perm, permeable; SA, surficial aquifer; Undiff, undifferentiated]

Attachment 3

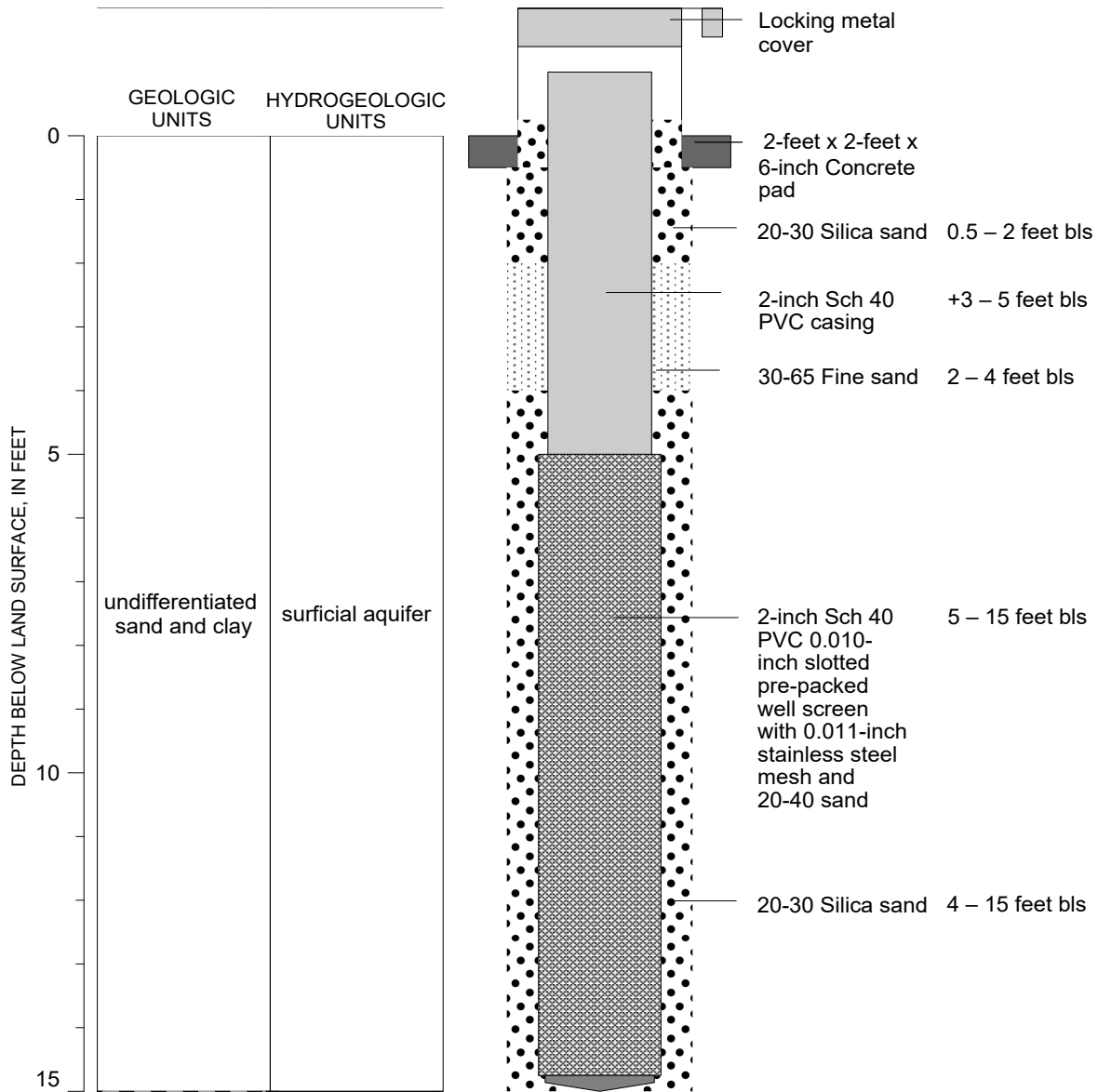


SUBJECT: Central Florida Water Initiative Data, Monitoring, and Investigations Team Peace River at Ft. Meade Surficial Aquifer Monitor Well Construction Summary

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Attachment 4



Well Name:	Peace River at Ft. Meade Surf Aq Monitor
SID:	1042184
WCP:	952368
S/T/R:	26/31/25
Latitude:	27° 45' 02.3" N
Longitude:	81° 46' 59.9" W
Reporting Category:	PRFM
Const. Began:	05/27/2025
Const. Complete:	05/27/2025

EXPLANATION

	20-30 sand		Pre-packed screen
	Concrete		PVC casing
	Fine sand		Well head protector
	Nose cone		

Note: As-built is not to scale above land surface.

[bls, below land surface; Const., construction; N, north; PVC, polyvinyl chloride; Sch, schedule; SID, station identification; S/T/R, Section/Township/Range; WCP, well construction permit; W, west]

SUBJECT: Central Florida Water Initiative Data, Monitoring, and Investigations Team Peace
River at Ft. Meade Surficial Aquifer Monitor Well Construction Summary

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Attachment 5



Attachment 6

**SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
GEOHYDROLOGIC DATA SECTION
DAILY CORE DRILLING LOG**

REPORT #	SITE GEOLOGIST	DATE	DATE ON-SITE	SID
1	T Horstman / B. Brown	5-27-2025	5-27-2025	1042184

CONTRACTOR	CREW	PROPOSED T.D.	PROGRESS	DEPTH
NET	Bill, Tim	~15	20'	20'

WELL SITE NUM-NAME	WELL NAME/ID
Peace River at Ft. Meade	Surf. Ag. Monitor

TIME LOG		DEPTH	DETAILS OF OPERATIONS
FROM	TO		
0930			Geologists and NET onsite.
0932			Locate Easement - measure segments from survey
0933			NET prepping equipment, set up rig for SPT
0950			Post hole dig 0-6 ft to ensure no utilities, collect portion for lithologic samples. Collected in 1 foot increments
1003			Begin SPT sampling with Geoprobe collect 6-11 ft, 11-15 ft, requested additional run from 15-20 ft
			moist sediments at 15 feet, clayey sand begins at 16 ft and sandy clay at 19.5 ft.
1024			Begin auger w/ 4.25-inch augers from 0-5 ft bls, put wood plug in bottom of auger
1026			auger 5-10 ft
1028			auger 10-15 ft
1030			Install 2-inch pre pack sch 40 2010 slot screen from 5-15 ft and 2-inch sch 40 PVC blank casing from 13 to 5 ft bls
			Tremie 20-30 sand while pulling augers add fine sand 1 foot above screen, then continue 20-30 sand to 0.5 ft bls
1045			Add metal cover with 20-30 sand and cement pad around cover.
			Equipment: Geoprobe 7720, flatbed truck, equipment trailer
			Well was dry
1130			off site

District Representative	T Horstman	Contractor Representative	
-------------------------	------------	---------------------------	--