



Mosaic Fertilizer, LLC
13830 Circa Crossing Drive
Lithia, FL 33547
www.mosaicco.com

Tel 813-500-6300
Fax 813-571-6926

January 9, 2025

Ms. Chanda Bennett
Comprehensive Planning Administrator
Land Development Division
330 W. Church Street
Drawer GM03 P.O. Box 9005
Bartow, FL 33831-9005

**Re: Polk County Operating Permit – Two Year Renewal
Mosaic Fertilizer, LLC – South Fort Meade Mine**

Dear Ms. Bennett,

Enclosed is an application from Mosaic Fertilizer, LLC (Mosaic) for the renewal of the South Fort Meade Mine's Polk County Operating Permit. The application being submitted is a two year renewal and covers the time period of April 1, 2025 through March 31, 2027.

Check number 001304 in the amount of \$1,212.00 is enclosed for the processing fee. No mining is proposed during the permit period of April 1, 2025 through March 31, 2027.

If you have any questions or require more information regarding this application, please contact me at (813) 500-6399, or allison.gordon@mosaicco.com.

Sincerely,

A handwritten signature in blue ink that reads "Allison Gordon".

Allison Gordon
Senior Permitting Engineer

Enclosures:

- One (1) copy of the operating permit application.
- One (1) CD containing digital copies of the operating permit application, Polk County Mining Ordinance 88-19 Article III Section 3-3 and current permits for the South Fort Meade Mine.

cc: Shelley Thornton
Brad De Neve
Vinette Godelia



**POLK COUNTY
COMMUNITY SERVICES DEPARTMENT
CODES COMPLIANCE DIVISION**

OPERATING PERMIT APPLICATION

PHOSPHATE MINING ORDINANCE, No. 88-19

COMPANY NAME: Mosaic Fertilizer, LLC
ADDRESS: 13830 Circa Crossing Drive
CONTACT PERSON: Allison Gordon **TELEPHONE:** 813-500-6399
MINE SITE: South Fort Meade Mine

One Year Application Annual Renewal Two Year Application Biennial Renewal

Proposed Time Frame: 04/01/2025 to 03/31/2027
Date Date

Have you included in your report:

A map delineating the boundaries of the Mining Site and the lands proposed to be mined and reclaimed during the permit period.

Yes X No _____

Mosaic's Response:

Please refer to the attached Map 1 for the mine boundary as well as the acres proposed to be reclaimed during this permit period.

A general description of those properties proposed to be mined and reclaimed during the permit period, giving, at a minimum, Section, Township and Range.

Yes X No _____

Mosaic's Response:

Please refer to the response for Section 3-3.a).a. included in Attachment A for a listing of the acres proposed to be reclaimed during this permit period.

Estimated acreage proposed to be mined and reclaimed during the permit period.

Yes X No _____

Mosaic's Response:

Please refer to the attached Map 1 for the estimated acreage proposed to be reclaimed during this permit period.

Location and identification of existing and planned facilities and permanent structures within the mining unit.

Yes X No _____

Mosaic's Response:

Please refer to the attached Map 2 for the location of the existing plant site. No additional facilities are proposed during this permit period.

Location, size and capacity of existing and anticipated future waste storage areas within the mining unit.

Yes No

Mosaic's Response:

Please refer to the attached Map 3 and the response for Section 3-3.a).b. included in Attachment A for a listing of the existing and future Clay Settling Areas (CSAs).

A topographical map showing the mining unit and its relationship to any county watershed. (pre-mining and proposed post-reclamation).

Yes No

Mosaic's Response:

Please refer to the attached Maps 4a and 4b for the pre-mining and post-reclamation topography including drainage basins.

A narrative explaining major differences between pre-mining topography and post-reclamation topography.

Yes No

Mosaic's Response:

The pre-mining topography and drainage is depicted on Map 4a. The currently approved post reclamation topography for the South Fort Meade Mine is shown on Map 4b. The drainage sub-basins identified on the map are consistent with the approved Florida Department of Environmental Protection (FDEP) Wetland Resource Permit No. 0146465-001/007/009/012/029/032/048/049 which was last modified on October 23, 2019. The post mining drainage patterns are similar to the pre-mining drainage patterns.

A map indicating mining operation areas, such as construction of roads or other means of access, pipelines, storage and recirculating water systems.

Yes No

Mosaic's Response:

Please refer to the attached Map 5 for the location of the current mine infrastructure.

A map indicating the twenty-five (25) year floodplain and any navigable waterbody, and distance from any proposed waste clay settling area (as measured to the toe of the dam).

Yes No

Mosaic's Response:

Please refer to the attached Map 6 for a map of the twenty-five (25) year floodplain as well as the location of the existing and future clay settling areas.

If this application includes a request for a variance to any terms of the ordinance, please attach a completed variance application form.

Mosaic's Response:

No Variance Request is included with this submittal, however, previously approved variances that remain active for the South Fort Meade Mine are listed below:

- 1. A request for the reduction of 50 feet of the road right-of-way setback requirement of 100 feet as outlined in Section 4-4 of the Phosphate Mining Ordinance 88-19 for the South Fort Meade Mine site along Mt. Pisgah Road, both east and west right-of-way boundaries, starting at Dishong Road and extending to County Line Road to the south in Sections 11, 14, 23, 26, and 35, Township 32 South, Range 25 East was approved by the Polk County Board of County Commissioners on April 29, 1997.*
- 2. A request for the reduction of the road right-of-way setback requirement of 100 feet as outlined in Section 4-4 of the Phosphate Mining Ordinance 88-19 for the South Fort Meade Mine site located along the north side of County Line Road 664, west and east of Mt. Pisgah Road, along the Polk\Hardee County Line, southeast of Fort Meade in Sections 35 and 36, Township 32, Range 25 and Sections 31, 32, 33, and 34, Township 32, Range 26, was approved by the Polk County Board of County Commissioners on September 3, 2003.*
- 3. A request to allow for the maximization of clay storage at the South Fort Meade Mine by increasing dam height up to 50 feet in the three remaining clay settling areas proposed for construction and for the permanent storage of clays generated by reserves mined in Hardee County was approved by the Polk County Board of County Commissioners on June 15, 2005. The site is on the north side of the Hardee\Polk County Line in Section 13, 23, 24, 25, and 26, Township 32S, Range 25E and Sections 18, 19, 20, 29, and 30, Township 32 South, Range 26 East, Polk County.*

Signature and Seal of a Professional Engineer, registered in the State of Florida:


Signature ★ No. 72325 Date 1/7/25
Brad E. De Neve, P.E.
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Filing Fee: ~~\$1,212.00 + \$.25 per acreage to be mined. Make check payable to: Board of County Commissioners.~~

***Submit Twelve (12), color coded, 8 ½" x 11" maps. One (1) original packet, AND (1) master map to scale-approximately 1" to 2000'.**

**No waste clays deposited, whether in clay settling areas or used in reclamation techniques, may be placed within 500 feet of the centerline of any paved, public road or within 500 feet of the 25 year floodplain of any navigable water body (as measured to the toe of the dam, toe of the berm, or edge of the pit).

Rev6\00\forms\phosopmt.wpd

Enclosed as Attachment A are the responses to meet the permitting requirements of the Polk County Mining Ordinance 88-19, Article III, Section 3-3: Operating Permits.

**POLK COUNTY
ANNUAL OPERATING PERMIT RENEWAL
SOUTH FORT MEADE POLK MINE
APRIL 1, 2025– MARCH 31, 2027**

**Polk County Mining Ordinance 88-19
Article III Permitting Requirements**

Compliance Information:

Section 3-3 Operating Permits

a) Information required in Section 3-2 but addressing only the specific mine unit under consideration in the application;

- a. A boundary map depicting the total acreage in the project; the proposed annual sequencing of mining and reclamation activities; and the projected life of mine;**

Mosaic's Response:

On September 16, 2009, the Polk County Board of County Commissioners approved the Conceptual Mine Plan Change for the South Fort Meade Polk Mine. The current mine boundary contains approximately 17,508 acres.

There are approximately 327.1 acres of proposed initial reclamation within the South Fort Meade Polk Mine during the 2025-2027 permit period. Please refer to Map 1, "Boundary Map" depicting the acres to be reclaimed during the 2025-2027 permit period.

The reclamation activities proposed for April 1, 2025 through March 31, 2027 includes the contouring and re-vegetation of approximately 327.1 acres of mined-out land. Upon completion of the contouring, the reclamation areas are typically seeded with a mixture of bahia, bermuda and seasonal grasses such as millet and rye. Various species of vegetation that are planted for herbaceous wetlands may include pickerelweed, arrowhead, sofrush, and maiden cane; forested wetlands may include wetland shrubs, maple, laurel oak, loblolly bay, swamp tupelo, and water hickory; forested uplands may include various oaks, maples, pines, and hickory.

Reclamation Activities – April 1, 2025 through March 31, 2027

FDEP Program Area	Reclamation Acres	Section, Township, Range
GB	55.3	S36 T32S R25E
GU(2)	76.2	S25, 26 T32S R25E
Plant Site	112.4	S25 T32S R25E S19, 30 T32S R26E
SFM 6-7	83.2	S19, 30 T32S R26E
Total:	327.1	

Repair and maintenance on the unreleased reclamation areas will continue during the 2025-2027 permit period. These activities will consist primarily of erosion repair, herbicide of nuisance and exotic vegetation and fill-in revegetation with grass, herbaceous plants and upland and/or wetland trees where necessary.

b. The planned locations, size, and capacity of future waste storage areas and the estimated heights of their dams;

Mosaic’s Response:

Located at the South Fort Meade Polk Mine are six active clay settling areas; SFM-2, SFM-3, SFM-4, SFM-5, SFM-6 and SFM-7.

Listed below are the characteristics of existing and future clay settling areas at the South Fort Meade Polk Mine location.

Clay Settling Area Characteristics

Clay Settling Area	Effective Area (acres)	Dike Height (ft)	Effective Depth (ft)	Storage Volume (ac-ft)
SFM-1	593	36	34.8	20,636
SFM-2	869	42	40.3	35,021
SFM-3	444	50	65.3	28,993
SFM-4	394	35	54.1	21,261
SFM-5	890	35	50.5	41,541
SFM-6	439	50	57.8	25,349
SFM-7	494	50	62.0	30,617
SFM-8	535	50	60.7	32,450

Please note that dam heights are fixed but effective area, depth and storage may vary with future calibration and modeling.

On June 15, 2005, the Polk County Commission approved a variance to the Polk County Mining Ordinance 88-19 to allow for the maximization of clay storage at Mosaic’s South Fort Meade Polk Mine on approved permitted settling areas SFM-6, SFM-7, and SFM-8. This variance increases dam height by 15 feet to a maximum height of 50 feet and allows the permanent storage of clays generated by reserves mined in Hardee County.

Please refer to Map 3, “Waste Storage Areas”, for the locations.

c. The planned location of beneficiation operations;

Mosaic’s Response:

There are no new plans for a beneficiation plant within the existing mine boundary. The location of the existing plant can be seen on Map 2, “Facility and Permanent Structures”.

- d. A topographical map showing the mine site and its relationship to any watershed;**

Mosaic's Response:

Please refer to Map 4A, "Pre-Mining Topography", and Map 4B, "Post-Reclamation Topography" for this information.

- e. A location map of any existing or proposed permanent right-of-ways within the project site;**

Mosaic's Response:

Please refer to Map 2, "Facility and Permanent Structures" for the existing right-of-ways. There are no proposed right-of-ways within the project site.

- f. The location and identification of all existing and planned facilities and other permanent structures required by the operator in its mining activities within the mining unit covered by the application;**

Mosaic's Response:

Please refer to Map 2, "Facility and Permanent Structures" for this information.

- g. A copy of the reclamation and restoration program submitted to the state.**

Mosaic's Response:

Reclamation plans are in accordance with the approved FDEP Wetland Resource Permit No. 0146465-001/007/009/012/029/032/048/049 which was last modified on October 23, 2019.

- b) Drainage information sufficiently detailed to insure adequate definition of all drainage characteristics of the applicant's lands and their effects upon neighboring lands provided that information submitted to Southwest Florida Water Management District in satisfaction of the SWFWMD surface water (MSSW) criteria shall be sufficient to meet the requirements of this paragraph**

Mosaic's Response:

A "Memorandum of Understanding" was issued between the Southwest Florida Water Management District (SWFWMD) and the FDEP exempting phosphate mining from the MSSW permitting.

Drainage characteristics within a project and effects on neighboring lands are addressed through the Conceptual Reclamation Plans filed with the FDEP and Environmental Resource Permits for new mines. Permit compliance is ensured

through a thorough review of the drainage characteristics during the agency review of the conceptual plan. The FDEP inspects all mine properties on a quarterly basis to ensure compliance.

c) Estimates of the amounts (volume and weight) of Phosphatic clays and tailings to be created, plans for their storage or disposal, and the proposed time schedules for disposal, together with the location of any treatment facilities.

Mosaic's Response:

After separation from the phosphate minerals in the beneficiation process, clay is distributed in slurry form to a clay settling area (CSA). The clay undergoes a decantation process in which the clay settles from the water column within the CSA and becomes part of the clay volume remaining in the CSA. The clarified water remaining after the clay has settled is reused in the plant water recirculation system. Excess water entrained within the system through ground water seepage or rainfall is discharged through an NPDES outfall. Sand separated from the phosphate minerals is pumped into voids created by mining and is used as reclamation fill.

Periodic updates to the Life of Mine Waste Disposal Plan and Tailings Schedule are submitted to the FDEP. These plans and schedules include both the Polk County and Hardee County areas. A copy of the most recent Life of Mine Waste Disposal Plan submitted July 22, 2024 and a copy of the most recent Tailings Schedule submitted June 28, 2024 is attached in this submittal.

d) Description of erosion control measures (both during and after mining specifying the type, density and extent of vegetation utilized as part of such measures.

Mosaic's Response:

Appropriate erosion control measures are used during and after mining, and include the following:

1. Revegetation: Where appropriate, the area will be vegetated with grasses such as bahia, bermuda, rye or millet. Typically, the grasses are planted at a rate of 75 pounds per acre each and are disked and rolled into the surface soils. This will provide for a minimum 90% ground cover in the area.
2. BMP Berms: Berms are constructed around the perimeters of active mining areas to prevent any turbid runoff from leaving the project. Stormwater is captured and clarified in the mining recirculation system and clay settling areas.
3. Turbidity Barriers: Turbidity barriers such as silt screens function as a temporary control measures during initial site preparation, or in areas where it is impractical to revegetate. The properly installed barrier intercepts surface water runoff from the project site.
4. Hay Bales: In areas requiring a temporary or short-term solution to erosion,

staked hay bales will be used to impede and filter the runoff before it leaves the site.

In addition, staff involved with erosion control and stormwater management is required to attend stormwater management and erosion control training.

e) Estimates of the quantity, temperature, chemical, and physical properties of effluent including points and methods of disposal from the applicant's property through permitted discharge points.

Mosaic's Response:

The South Fort Meade Mine effluent limitations are stipulated in its National Pollution Discharge Elimination System (NPDES) Permit, issued by FDEP. This five-year permit was last renewed on December 5, 2022. The effluent limitation table excerpts from the NPDES permit are included at the end of this section. An electronic copy of the NPDES permit is included on the enclosed CD.

Effluent Limitations and Monitoring:

Parameter	Units	Max/Min	Effluent Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Flow	MGD	Max Max	Report Report	Monthly Average Daily Maximum	Continuous	Recording Flow Meter with Totalizer	EFF-001, EFF-002 EFF-003, EFF-004	
Stream Flow	MGD	Max	Report	Daily Maximum	Monthly	Instantaneous	SWD-001 SWB-002, SWD-002 SWB-003, SWD-003 SWB-004, SWD-004	See I.A.13. Table 5
Specific Conductance	µmhos/cm	Max	1275	Daily Maximum	Monthly	Grab	EFF-001, EFF-002 EFF-003, EFF-004	See I.A.16.
Specific Conductance	µmhos/cm	Max	Report	Daily Maximum	Monthly	Grab	SWD-001 SWB-002, SWD-002 SWB-003, SWD-003 SWB-004, SWD-004	See I.A.16. & See I.A.13. Table 5
Turbidity	NTU	Max	29	Daily Maximum	Monthly	Grab	EFF-001, EFF-002 EFF-003, EFF-004	See I.A.17.
Turbidity (Instream)	NTU	Max	Report	Daily Maximum	Monthly	Grab	SWD-001 SWB-002, SWD-002 SWB-003, SWD-003 SWB-004, SWD-004	See I.A.17. & See I.A.13. Table 5
Solids, Total Suspended	mg/L	Max Max	30 60	30-Day Average Daily Maximum	Weekly	Grab	EFF-001, EFF-002 EFF-003, EFF-004	See I.A.2.
Solids, Fixed Suspended	mg/L	Max Max	12 25	30-Day Average Daily Maximum	Weekly	Grab	EFF-001, EFF-002 EFF-003, EFF-004	See I.A.2. & I.A.13. Table 5
pH	s.u.	Min Max	6.0 8.5	Daily Minimum Daily Maximum	Weekly	Grab	EFF-001, EFF-002 EFF-003, EFF-004	
pH (Instream)	s.u.	Max	Report	Daily Maximum	Monthly	Grab	SWD-001 SWB-002, SWD-002 SWB-003, SWD-003 SWB-004, SWD-004	See I.A.13. Table 5
Phosphorus, Total (as P)	mg/L	Max Max	3 5	30-Day Average Daily Maximum	Weekly	Grab	EFF-001, EFF-002 EFF-003, EFF-004	See I.A.4.
Phosphorus, Total (as P) (Instream)	mg/L	Max	Report	Daily Maximum	Monthly	Grab	SWD-001 SWB-002, SWD-002 SWB-003, SWD-003 SWB-004, SWD-004	See I.A.13. Table 5
Phosphorus, Total (as P)	lb/day	Max Max	Report Report	Monthly Average Daily Maximum	Monthly	Calculated	EFF-001, EFF-002 EFF-003, EFF-004	See I.A.5.
Phosphorus, Total (as P)	lb/mth	Max	Report	Monthly Total	Monthly	Calculated	EFF-001, EFF-002 EFF-003, EFF-004	See I.A.5. & I.A.8
Phosphorus, Total (as P)	lb/yr	Max	Report	Annual Total	Annually	Calculated	EFF-001, EFF-002 EFF-003, EFF-004	See I.A.5. & I.A.8. Table 4
Nitrogen, Total (as N)	mg/L	Max	Report	Daily Maximum	Monthly	Grab	EFF-001, EFF-002, EFF-003, EFF-004	
Nitrogen, Total (as N)	mg/L	Max	3.0	Annual Geometric Mean	Annually	Calculated	EFF-001, EFF-002 EFF-003, EFF-004	See I.A.10.
Nitrogen, Total (as N) (Instream)	mg/L	Max	Report	Daily Maximum	Monthly	Grab	SWD-001 SWB-002, SWD-002 SWB-003, SWD-003 SWB-004, SWD-004	See I.A.13. Table 5
Nitrogen, Total (as N)	lb/day	Max	Report	Daily Maximum	Monthly	Calculated	EFF-001, EFF-002 EFF-003, EFF-004	See I.A.5.
Nitrogen, Total (as N)	lb/mth	Max	Report	Monthly Total	Monthly	Calculated	EFF-001, EFF-002 EFF-003, EFF-004	See I.A.5. &
Nitrogen, Total	lb/yr	Max	Report	Annual Total	Annually	Calculated	EFF-001, EFF-002 EFF-003, EFF-004	See I.A.5. & I.A.6. Table 4
Oxygen, Dissolved Percent Saturation	percent	Min	38	Daily Average	Monthly	Grab	EFF-001, EFF-002 EFF-003, EFF-004	See I.A.22
Oxygen, Dissolved Percent Saturation (Instream)	percent	Min	Report	Daily Minimum	Monthly	Grab	SWD-001 SWB-002, SWD-002 SWB-003, SWD-003 SWB-004, SWD-004	See I.A.22 & See I.A.13. Table 5
Temperature (C), Water	Deg C	Max	Report	Daily Maximum	Monthly	Grab	EFF-001, EFF-002 EFF-003, EFF-004	See I.A.22
Temperature (C), Water (Instream)	Deg C	Max	Report	Daily Maximum	Monthly	Grab	SWD-001 SWB-002, SWD-002 SWB-003, SWD-003 SWB-004, SWD-004	See I.A.22 & See I.A.13. Table 5
Sulfate, Total	mg/L	Max	Report	Daily Maximum	Quarterly	Grab	EFF-001, EFF-002 EFF-003, EFF-004	
Fluoride, Total (as F)	mg/L	Max	10.0	Daily Maximum	Quarterly	Grab	EFF-001, EFF-002 EFF-003, EFF-004	See I.A.23.
Fluoride, Total (as F) (Instream)	mg/L	Max	Report	Daily Maximum	Quarterly	Grab	SWD-001 SWB-002, SWD-002 SWB-003, SWD-003 SWB-004, SWD-004	See I.A.13. Table 5
Chlorophyll a	µg/L	Max	Report	Daily Maximum	Quarterly	Grab	EFF-001, EFF-002 EFF-003, EFF-004	
Chlorophyll a (Instream)	µg/L	Max	Report	Daily Maximum	Monthly	Grab	SWD-001 SWB-002, SWD-002 SWB-003, SWD-003 SWB-004, SWD-004	See I.A.13. Table 5
Alpha, Gross Particle Activity	pCi/L	Max	15	Daily Maximum	Semi-Annually; twice per year	Grab	EFF-001, EFF-002 EFF-003, EFF-004	See I.A.18.
Radium 226 + Radium 228, Total	pCi/L	Max	5	Daily Maximum	Semi-Annually; twice per year	Grab	EFF-001, EFF-002 EFF-003, EFF-004	See I.A.18.
Whole Effluent Toxicity, Chronic	percent	Min	100	Single Sample	Annually	24-hr TPC	EFF-001, EFF-002 EFF-003, EFF-004	See I.A.19.

Effluent samples shall be taken at the monitoring site location as described below:

<u>Sample Point</u>	<u>Description of Monitoring Location</u>
EFF-001	Outfall D-001 at the weir
SWD-001	Downstream of D-001 in the Peace River

f) The location and description of all existing and proposed monitoring stations.

Mosaic’s Response:

The South Fort Meade Polk Mine has one (1) permitted discharge point, Outfall D-001. Please refer to Map 2 and the below Table for the location of Outfall D-001. The permitted outfall is used in accordance to NPDES (National Pollutant Discharge Elimination System) and Industrial Wastewater Facility Permit #FL0037958 issued by the FDEP on December 5, 2022. A copy of the Industrial Wastewater Facility Permit #FL0037958 is attached in this submittal.

Discharges from the South Fort Meade Mine are dependent upon the rainfall contributions to the system in excess of the available storage capacity and the inflow of ground water into mining cuts.

The existing Outfall D-001 discharges excess mine recirculation water and stormwater into an unnamed swale, a tributary of the Peace River (Class III Freshwaters). The D-001 outfall is an 8-foot concrete weir with end contractions, which discharges at an invert elevation of 72.0ft. NGVD and a receiving channel bottom elevation of 70.0 ft. NGVD.

Outfall No.	Latitude	Longitude	Invert Elevation	Channel Bottom Elevation	Sample Point	Class
D-001	27°39’30”N	81°47’48”W	72.0 ft NGVD	70.0 ft NGVD	EFF-001	III Freshwater

g) Reclamation plan as submitted to the Florida Department of Environmental Protection, Bureau of Mines, Tallahassee.

Mosaic’s Response:

Reclamation plans are in accordance with the approved FDEP Wetland Resource Permit No. 0146465-001/007/009/012/029/032/048/049 which was last modified on October 23, 2019.

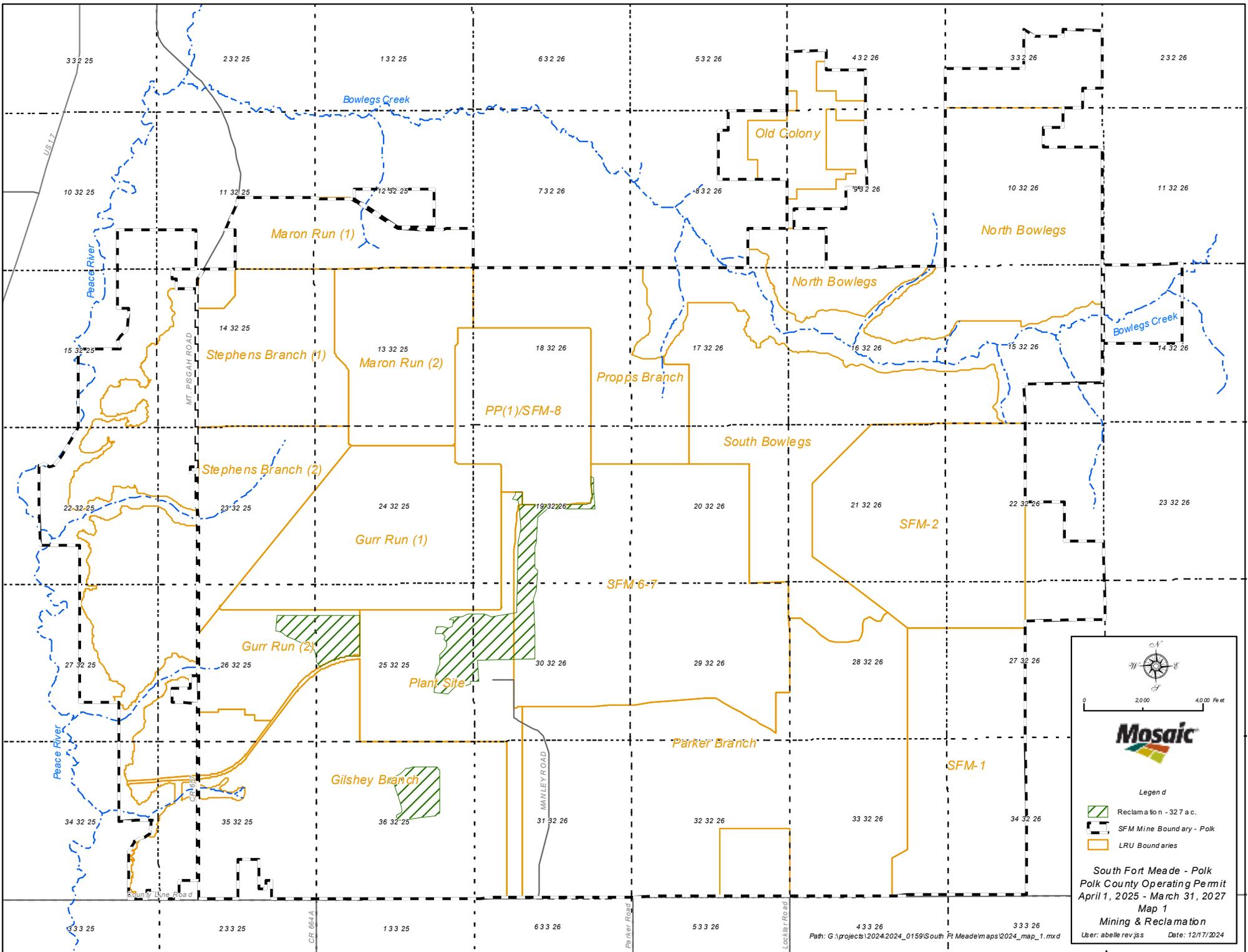
The ACOE/FDEP “Annual Mining and Reclamation Report” submitted to FDEP, Bureau of Mine Reclamation and the U.S. Army Corps of Engineers is due each year on March 1st. The report provides an updated account for all reclamation programs for the previous calendar year. A copy of this report is provided to Polk County each year.

h) Copies of permits required by Water Management Districts, Florida Department of Environmental Protection, and Environmental Protection Agency. Copies of any permits submitted previously under the foregoing provisions need not be re-submitted so long as the permits are still valid.

Mosaic's Response:

The following permits are for the South Fort Meade Polk Mine and have previously been submitted to the County:

1. Florida Department of Environmental Protection – NPDES Discharge and Industrial Wastewater Facility Permit #FL0037958, expiration December 4, 2027.
2. Southwest Florida Water Management District – Individual Water Use Permit #20011400.025, expiration of October 30, 2032.
3. Florida Department of Environmental Protection – Wetland Resource Permit #0146465-001/007/009/012/029/032/048/049, Life of Mine.
4. Florida Department of Environmental Protection – Conceptual Reclamation Plan CAR-SFM-CPC.
5. Florida Department of Environmental Protection – Environmental Resource Permit #0146465-010/052 for Old Colony, expiration of December 17, 2024. A 10-year time extension request and minor modification was submitted on December 13, 2024 to FDEP and is included on the enclosed CD.
6. Florida Department of Environmental Protection – Environmental Resource Permit #0146465-046 for Thompson Grove and Mott, expiration of February 27, 2029.
7. Florida Department of Environmental Protection – Environmental Resource Permit #0146465-047 Transfer to Operational Phase for Devane & Best Issued July 17, 2019.
8. U.S. Army Corps of Engineers – Dredge and Fill Permit #199300450, expired April 4, 2021.

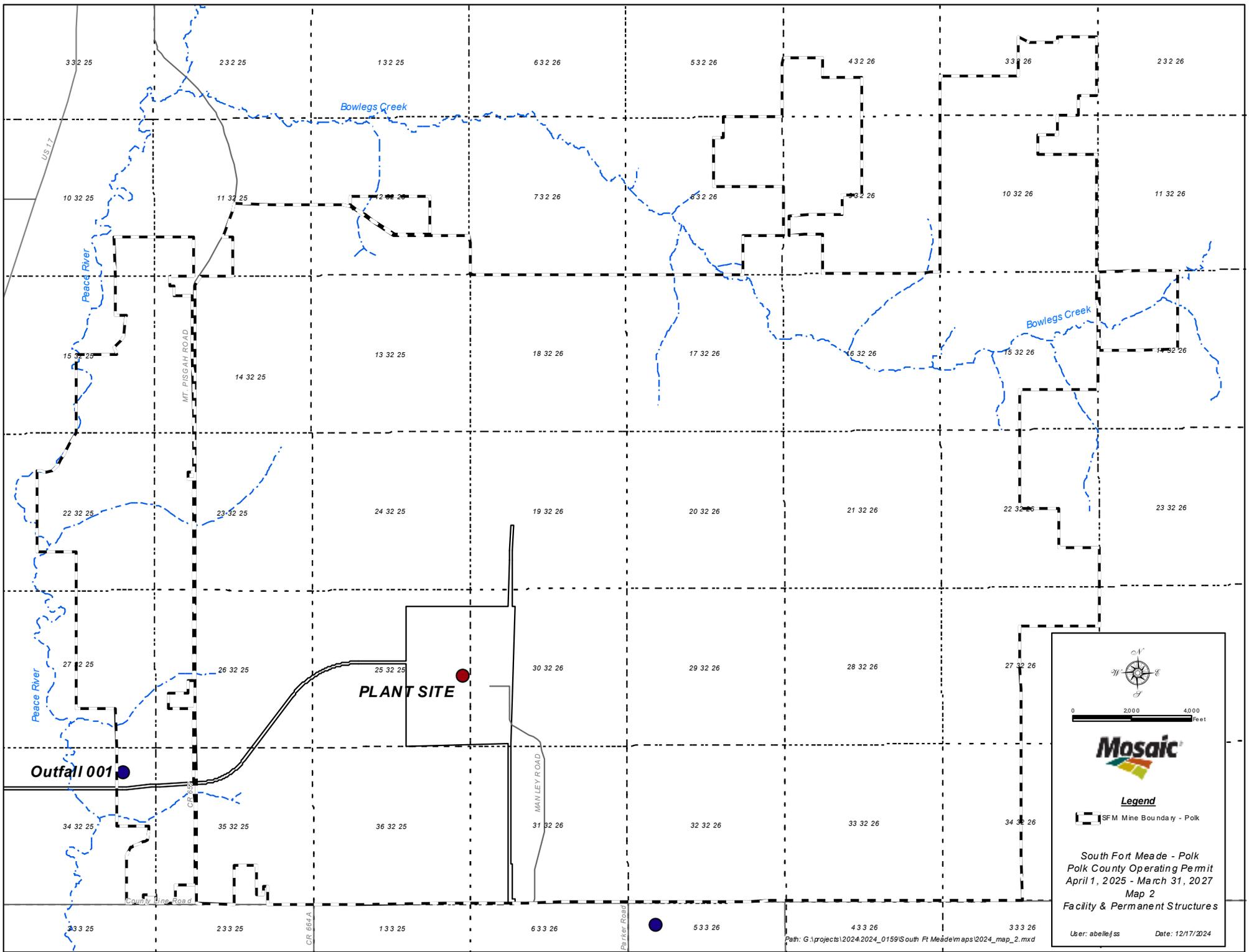


Mosaic

Legend

- Reclamation - 327 a.c.
- SFM Mine Boundary - Polk
- LRU Boundaries

South Fort Meade - Polk
Polk County Operating Permit
April 1, 2025 - March 31, 2027
Map 1
Mining & Reclamation
 User: abelle rev.jss Date: 12/17/2024

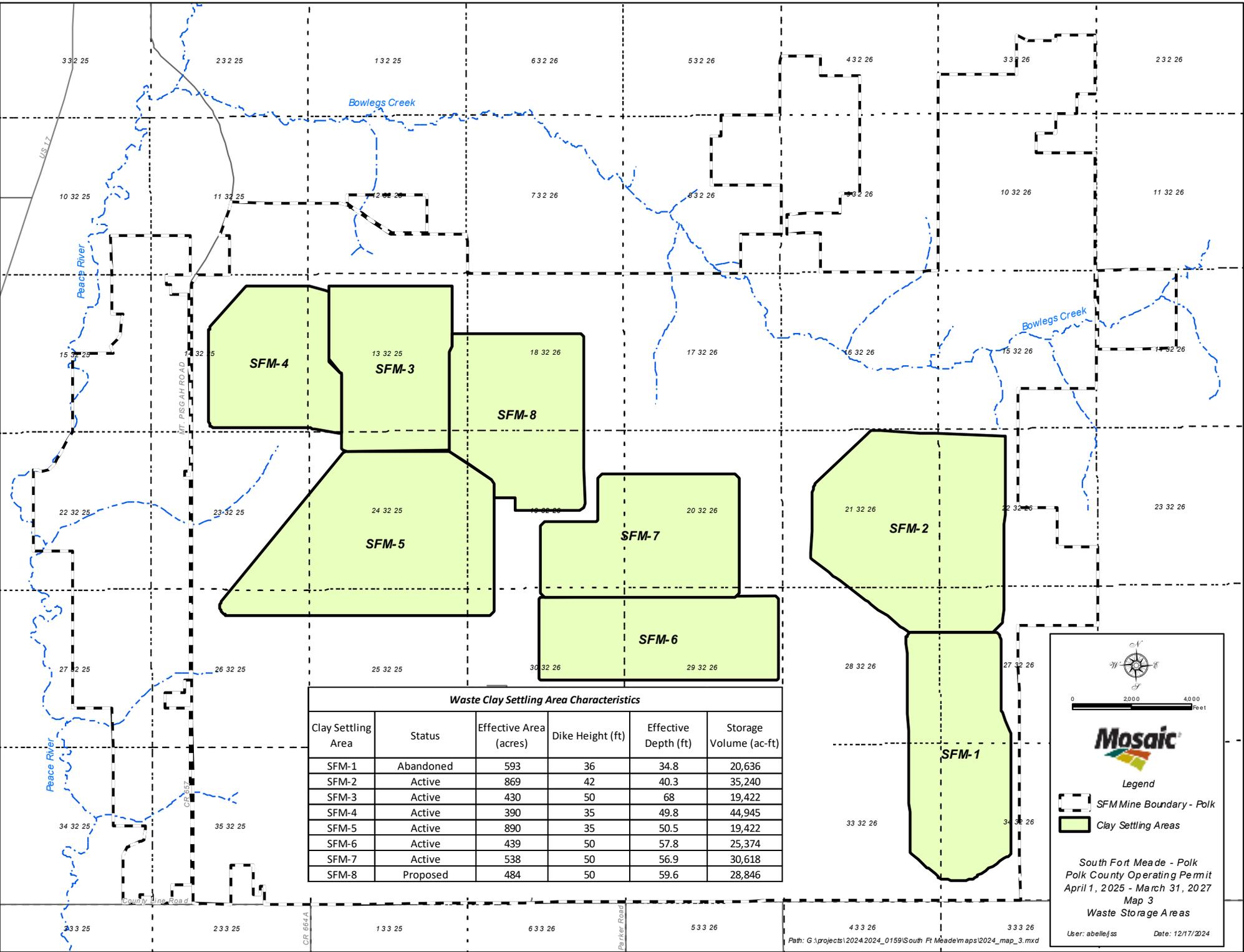





Legend
 SF Mine Boundary - Polk

South Fort Meade - Polk
 Polk County Operating Permit
 April 1, 2025 - March 31, 2027
 Map 2
 Facility & Permanent Structures

User: abellejss Date: 12/17/2024



Waste Clay Settling Area Characteristics

Clay Settling Area	Status	Effective Area (acres)	Dike Height (ft)	Effective Depth (ft)	Storage Volume (ac-ft)
SFM-1	Abandoned	593	36	34.8	20,636
SFM-2	Active	869	42	40.3	35,240
SFM-3	Active	430	50	68	19,422
SFM-4	Active	390	35	49.8	44,945
SFM-5	Active	890	35	50.5	19,422
SFM-6	Active	439	50	57.8	25,374
SFM-7	Active	538	50	56.9	30,618
SFM-8	Proposed	484	50	59.6	28,846



0 2000 4000 Feet

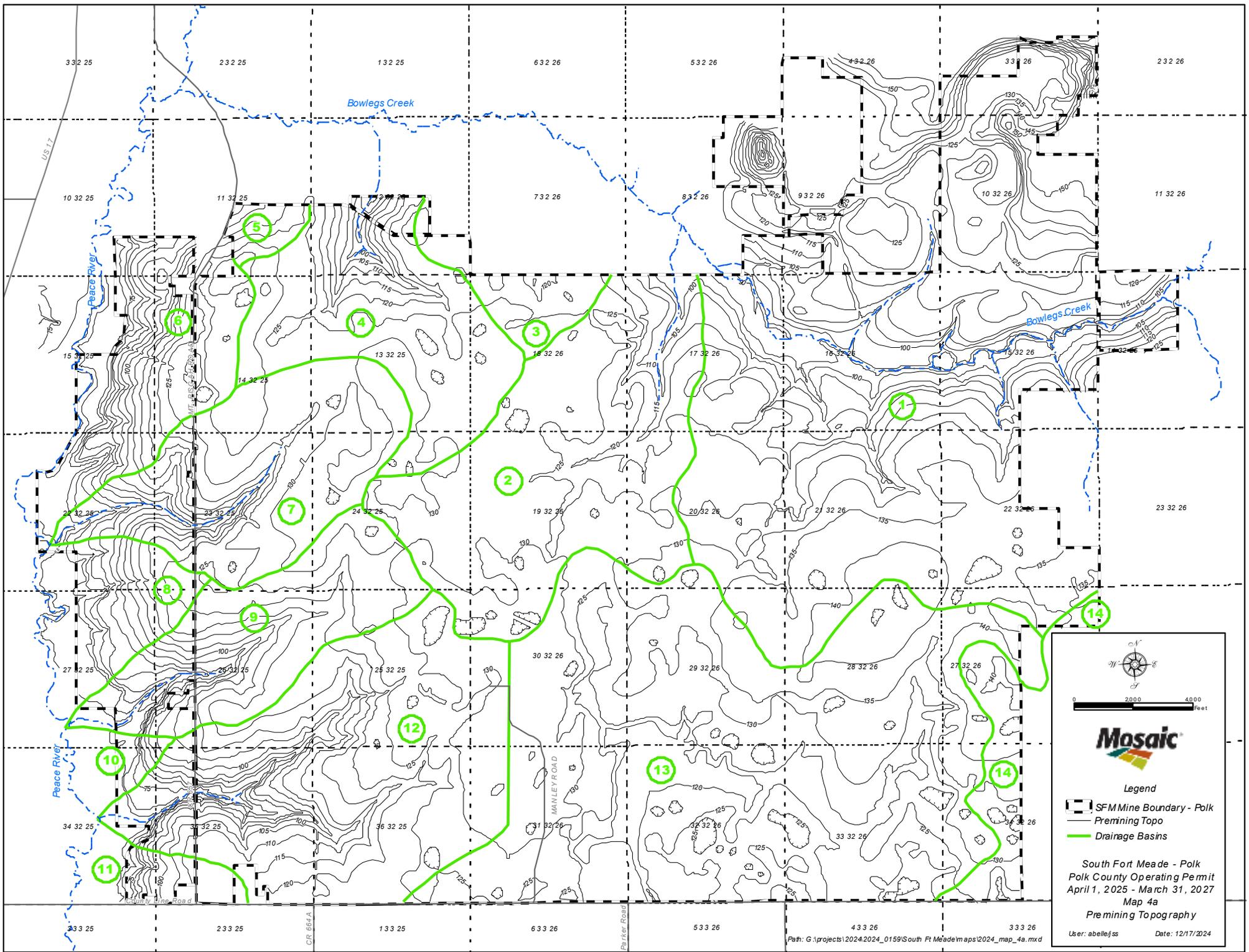


Legend

-  SFM Mine Boundary - Polk
-  Clay Settling Areas

South Fort Meade - Polk
Polk County Operating Permit
April 1, 2025 - March 31, 2027
Map 3
Waste Storage Areas

User: abellejss Date: 12/17/2024

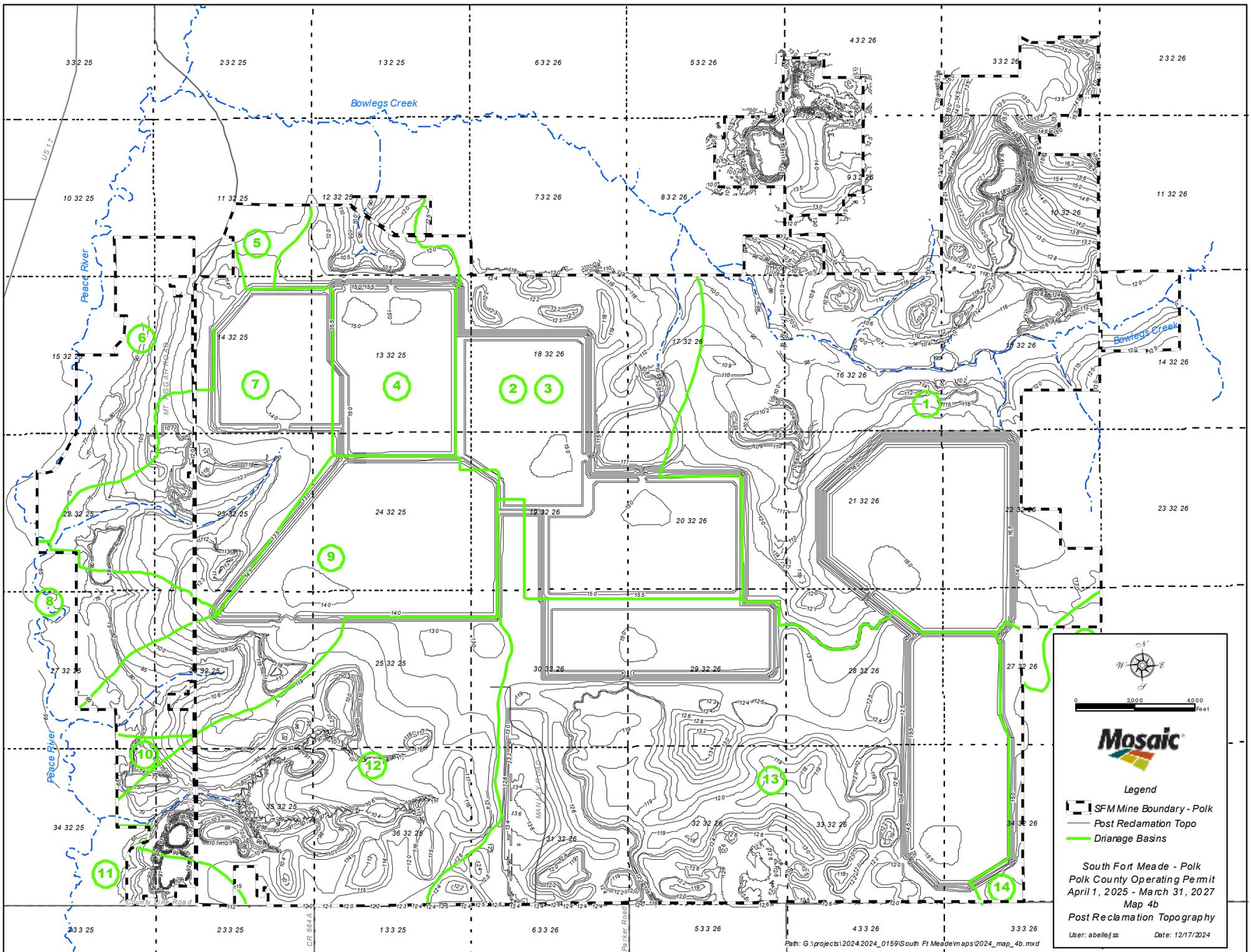





Legend
 SFM Mine Boundary - Polk
 Premining Topo
 Drainage Basins

South Fort Meade - Polk
 Polk County Operating Permit
 April 1, 2025 - March 31, 2027
 Map 4a
 Premining Topography
 User: abellejss Date: 12/17/2024

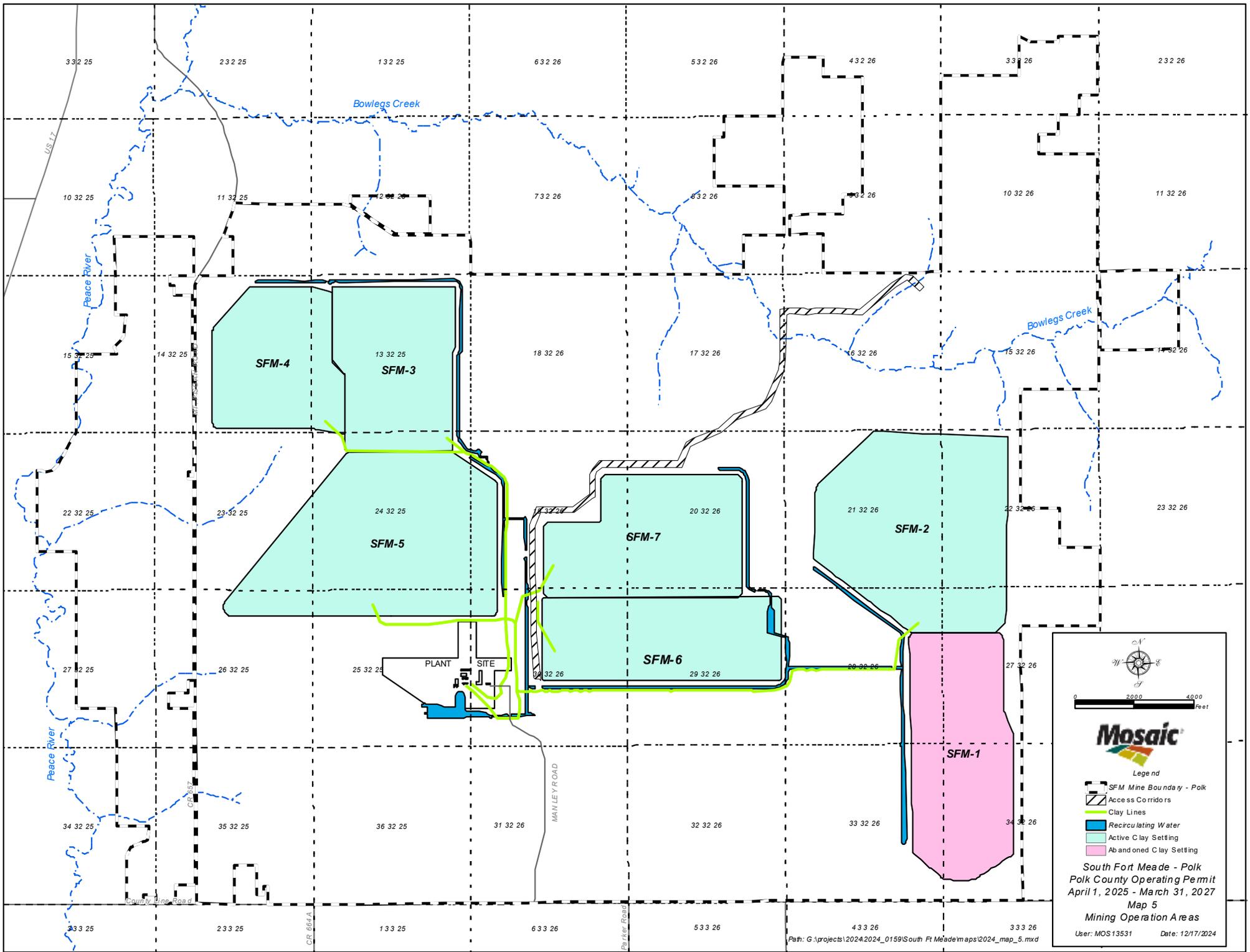
Path: G:\projects\2024\2024_0159\South Ft Meade\maps\2024_map_4a.mxd






Legend
 SFM Mine Boundary - Polk
 Post Reclamation Topo
 Drainage Basins

South Fort Meade - Polk
 Polk County Operating Permit
 April 1, 2025 - March 31, 2027
 Map 4b
 Post Reclamation Topography
 User: abellejss Date: 12/17/2024



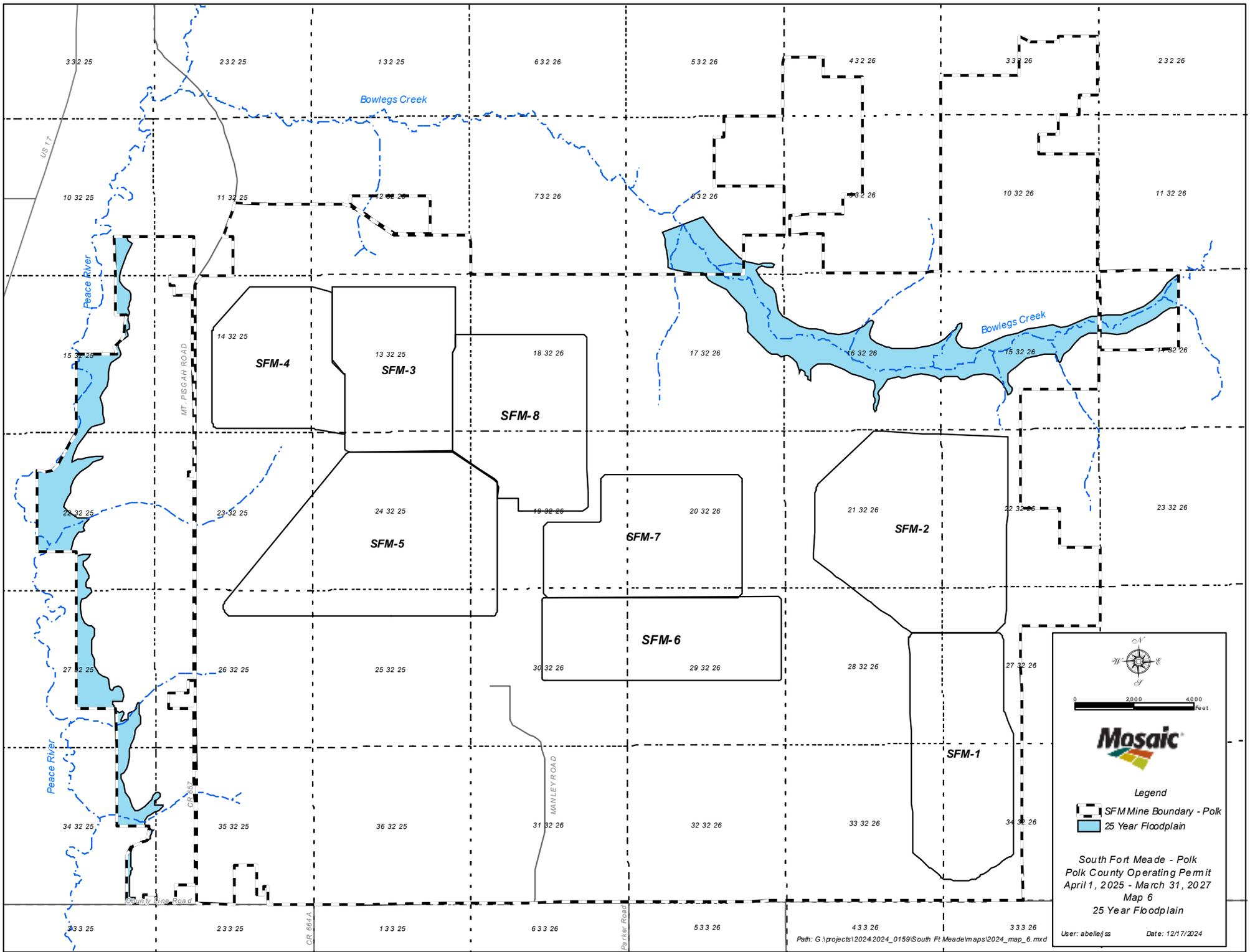



 Legend

-  SFM Mine Boundary - Polk
-  Access Corridors
-  Clay Lines
-  Recirculating Water
-  Active Clay Setting
-  Abandoned Clay Setting

South Fort Meade - Polk
Polk County Operating Permit
April 1, 2025 - March 31, 2027
Map 5
Mining Operation Areas
 User: MOS13531 Date: 12/17/2024

Path: G:\projects\2024\2024_0159\South Ft Meade\maps\2024_map_5.mxd




 0 2000 4000 Feet

Legend
 SFM Mine Boundary - Polk
 25 Year Floodplain

South Fort Meade - Polk
 Polk County Operating Permit
 April 1, 2025 - March 31, 2027
 Map 6
 25 Year Floodplain

User: abellejss Date: 12/17/2024