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Via Email & Federal Express

March 29, 2018

Ms. Jacqueline Langston
Florida Department of Environmental Protection
Mining and Mitigation Program
Bartow/Homeland Regional Field Office
2001 Homeland-Garfield Road
Bartow, Florida 33830

**Re: REQUEST FOR RENEWAL OF VARIANCE NO. 0142476-010; MOS-FG VA-VR (2007)
MOSAIC FERTILIZER, LLC – FORT GREEN MINE**

Dear Ms. Langston:

Mosaic Fertilizer, LLC (Mosaic) requests the renewal of the current variance at the Fort Green Mine (No. 0142476-010; MOS-FG VA-VR) which was issued due to the closure of the Payne Creek/Fort Green Mines and beneficiation plants, and delayed reclamation dependent on these facilities.

Please refer to the attached variance renewal application (Reclamation Form No. 4) for specific details that summarize those reclamation activities. The original variance was issued on September 29, 2008. Since that time, Mosaic has completed much of the reclamation at the mine except for clay settling areas not yet utilized to full storage capacity and mined land for future clay settling areas needed for the Ona Mine.

If you have any questions, please don't hesitate to contact me at (813) 500 – 6913 or sandra.patrick@mosaicco.com. We look forward to working with the FDEP to complete this variance renewal request.

Sincerely,

Sandra Patrick

Sandra Patrick, CEP
Mine Permitting Specialist – Compliance/Reclamation

Attachments

cc (email): Orlando Rivera – FDEP, Tallahassee
Katy Collins – FDEP, Tallahassee
Marisa Rhian – FDEP, Homeland
Deb Butler - Hardee County
Alissa Powers – Manatee County
Kay Bourque – Mosaic

Gary Blitch – Mosaic
Laura Morris - Mosaic
Keith Hancock - Mosaic
Jessica Solis – Mosaic
Ashlee Harrison - Mosaic



**Department of
Environmental Protection
Bureau of Mine Reclamation
2051 East Dirac Drive
Tallahassee, FL 32310-3760**

Variance Application

Part I. General Information

1. Operator

- a. Name: Mosaic Fertilizer, LLC
b. Mine: Fort Green Mine

2. Applicant (Authorized Agent)

- a. Name: S. Kay Bourque
b. Title/ Position: Director Mine Services
c. Business Address: _____
d. Mailing Address: 6209 N. CR 663
e. City, State, Zip: Bowling Green, FL 33834
f. Telephone Number: (863) 486-3775

3. Person to Contact Regarding Contents of Application

- a. Name: Sandra Patrick
b. Title/Position: Mine Permitting Specialist - Compliance/Reclamation
c. Telephone Number: (813) 500-6913

Part II. Description of Variance

1. Statute or Rule from which a variance is requested
Statute 378.209(1), F.S. and Rule 62C-16.0051(12)(b), F.A.C. (Chapter, section, etc.)

2. Reason(s) for Variance (Check one or more)

- ☐ There is no practical means known or available to comply
☒ Compliance will necessitate the taking of measures that must be spread over a considerable amount of time.
☐ It will relieve or prevent hardship, including economic hardship, of a kind other than the two reasons above.

- ☐ It will accommodate specific phosphate mining, processing, or chemical plant uses that otherwise would be inconsistent with the requirements of Chapter 378, Part III, F.S. A variance will provide for an experimental technique that would advance the knowledge of reclamation and restoration methods.
- ☐ It will accommodate projects, including those proposing offsite mitigation that provide a significant regional benefit for wildlife and the environment.

3. Duration of Variance: From June 1, 2018 to June 1, 2028

Part III. SUPPORTING INFORMATION

1. Provide the language of the statute or rule from which a variance is sought.
2. Provide the facts that would show that a variance should be granted for the Reason(s) checked in Part II, item 2.
3. Provide the facts in support of the period of time for which the variance is sought.
4. Provide the requirements that can be met by the operator, including the date or Time when the requirements can be met.
5. Provide the measurements or steps the operator is taking or has taken to meet the requirements of the statute or rule from which the variance is sought.
6. Discuss the social, economic, and environmental impacts on the operator, the residents of the area, and the state if the variance is granted and if the variance is denied.

3/20/18
Date Submitted

S Kay Baugher
Signature of Authorized Agent

Part III. SUPPORTING INFORMATION
File Number 0142476-010
Reclamation Variance MOS-FG-VA (2007)
Fort Green Mine CPJ
March 29, 2018

1. Provide the language of the statute or rule from which a variance is sought.

378.209 Timing of Reclamation. -

(1) "Reclamation should be completed within 2 years after the completion of mining operations, exclusive of a growing season required to ensure establishment of vegetation. For purposes of this section, completion of reclamation occurs when initial revegetation is completed and not at the time of final release of the reclamation area. For the purpose of s. 378.208, the schedule for complete reclamation is as prescribed in paragraphs (a)(e)."

2. Provide the facts that would show that a variance should be granted for the Reason(s) checked in Part II, item 2.

Due to the permanent closure of the Payne Creek/Fort Green Mines and beneficiation plants in 2006, timing of reclamation required by 378.209(1), F.S. is not attainable within the prescribed timeframe and compliance with state requirements will necessitate taking measures that must be spread over a considerable amount of time. A variance from timing of reclamation was originally issued to Mosaic in September 2008 and expires June 1, 2018. Mosaic is requesting additional time to complete reclamation within remaining mined and disturbed areas, as outlined below. This renewal request is for ten (10) years with an end date of June 1, 2028.

Since the original approval of the variance, Mosaic has completed reclamation on many of the areas that are required to meet the rule. Most of the unreclaimed areas remaining are associated with clay settling area storage, long-term operations corridors or water control support features for current and future mining. See Table 1 for a summary of the acres for each reclamation program requested for the variance renewal. They include the following:

Mining & Support Areas Not Reclaimed (3,731 acres):

- **Clay Settling Areas:**
 - FG-GSB(4 and 5) – FGH-3 CSA – in use for water control
 - FG-HC(13) – FGH-4 CSA – in use for water control
 - FG-WFHC(1) – O-1A (future)
 - FG-WFHC(2) – O-1A, B (future)
 - FG-WFHC(3) – O-1A, B (future)
 - FG-WFHC(4) – O-1B, C, D (future)
 - FG-HC(15) – O-1C (future)



- **Other Future Reclamation:**

- FG-HC(14) – this program contains unreclaimed lands surrounding the water clarification pond associated with the MFG-D-004 outfall.
- FG-MYR(1) – this program contains unreclaimed lands surrounding a water control pond supporting the Fort Green and Wingate mines.
- FG-PC(6)/FG-PC(10)/FG-SP(13A) – Payne Creek Restoration Project; the former Fort Green Plant site was mined/disturbed in 2011 and 2012. Future reclamation of this area is associated with the Ona Mine and includes restoring the historic features of Payne Creek and removing the re-route ditch.

Mosaic has posted security on all areas within the Fort Green Mine not reclaimed in accordance with the approved conceptual plan IMC-FG-CPJ (Bond #105187667). The amount of the security is updated on an annual basis and was most recently updated in November 2017 for \$35,373,752.09.

3. Provide the facts in support of the period of time for which the variance is sought.

Due to the long-term need to utilize some unreclaimed areas for mining support and future clay storage, Mosaic is requesting this variance be renewed for another 10-year period. Mosaic will keep the Department updated on reclamation activities and timing in its Annual Report as required by the variance.

4. Provide the requirements that can be met by the operator, including the date or Time when the requirements can be met.

Mosaic is committed to reclaiming outstanding areas at the Fort Green Mine as quickly as possible. Mosaic expects to complete reclamation outside of the clay settling areas and mining support features needed for the future Ona Mine by June 1, 2028.

5. Provide the measurements or steps the operator is taking or has taken to meet the requirements of the statute or rule from which the variance is sought.

Mosaic is compliant with the current variance including providing security for areas not reclaimed since the issuance of the variance in 2008 and is committed to updating the amount of the security on an annual basis. Annual Reports are also provided to the Department detailing reclamation progress at the mine.



Since the original approval of the variance, Mosaic has completed reclamation activities on most areas that are not required for support of water control, clay settling areas or other mining support functions.

Mosaic has posted security on all areas within the Fort Green Mine not reclaimed in accordance with the approved conceptual plan IMC-FG CPJ.

6. Discuss the social, economic, and environmental impacts on the operator, the residents of the area, and the state if the variance is granted and if the variance is denied.

Mosaic plans the construction, use and reclamation of all clay settling areas for the most efficient utilization of the available resources. This means not reclaiming clay settling areas, if possible, until they are filled to design capacity and their useful life is complete. Initiating reclamation on clay settling areas prematurely or when not appropriately dewatered, may make efficient reclamation difficult and costly.

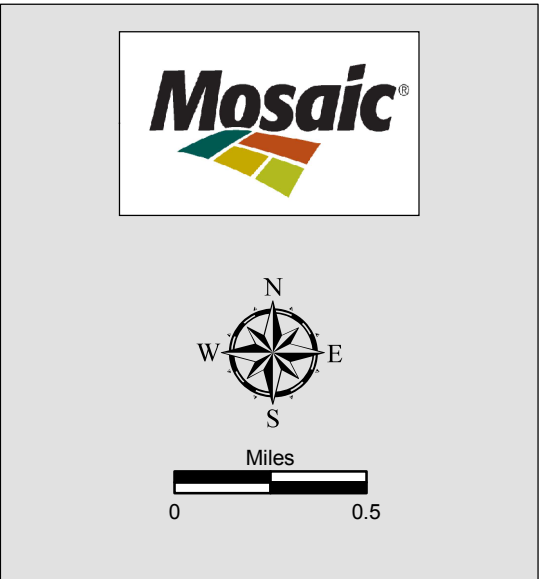
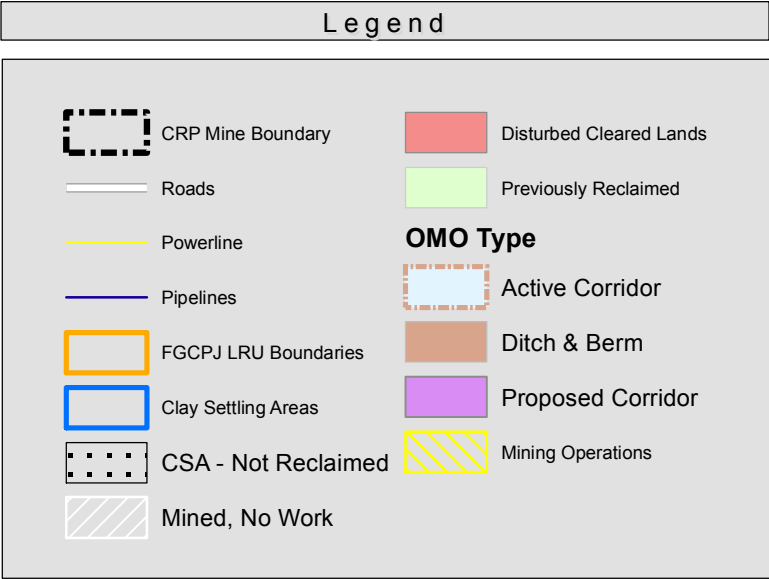
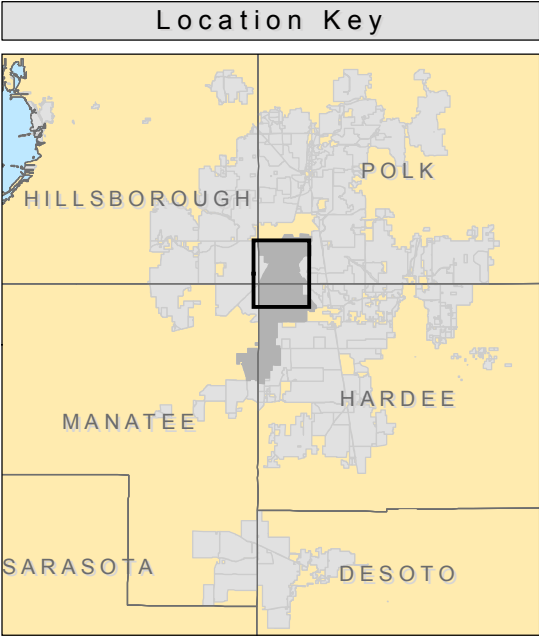
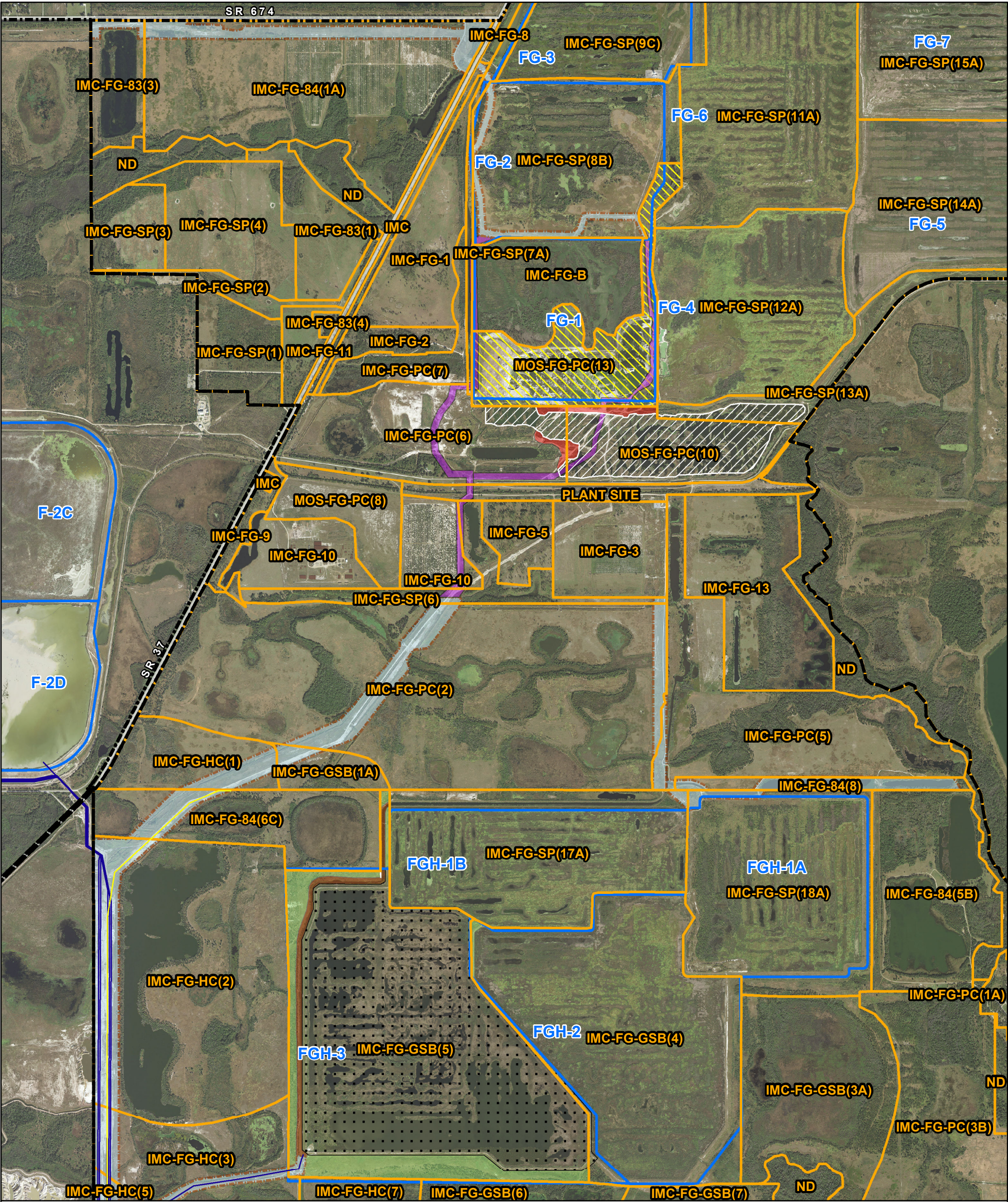
**Mosaic Fertilizer
Fort Green Mine Variance Renewal Acreage Summary
March 29, 2018**

General Information				2018 Reclamation Acreage Information - Variance Renewal				
Program (LRU)	Total Program Acres	CSA	County	CSA - Not Reclaimed	Disturbed / Cleared Lands	Mined, Contoured Only	Mined, No Work	Grand Total Requiring Variance
IMC-FG-GSB(4)	938	FGH-3 ^a	Hardee	12				12
IMC-FG-GSB(5)	1,217	FGH-3 ^a	Hardee	1,002				1,002
IMC-FG-HC(13)	712	FGH-4 ^a	Hardee	523				523
IMC-FG-HC(14)	148	NA	Hardee		1		31	32
IMC-FG-WFHC(2)	596	O-1A, B ^b	Hardee			84	498	582
IMC-FG-WFHC(3)	165	O-1A, B ^b	Hardee			65	97	162
IMC-FG-WFHC(1)	615	O-1A ^b	Hardee			64	409	473
IMC-FG-WFHC(4)	700	O-1-B, C, D ^b	Hardee		17	34	514	565
IMC-FG-HC(15)	315	O-1C ^b	Hardee			22	63	85
IMC-FG-MYR(1)	30	NA	Manatee				13	13
IMC-FG-PC(6)	415	NA	Polk		10		32	42
IMC-FG-SP(13A)	158	NA	Polk				30	30
MOS-FG-PC(10)	256	NA	Polk		15		196	211
Grand Total				1,537	43	269	1,883	3,731

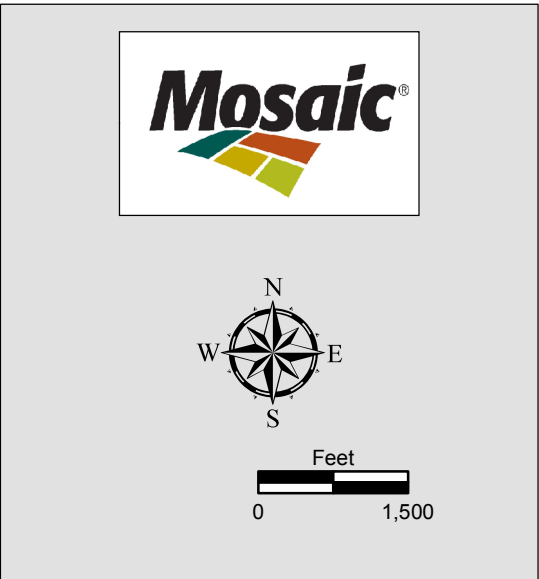
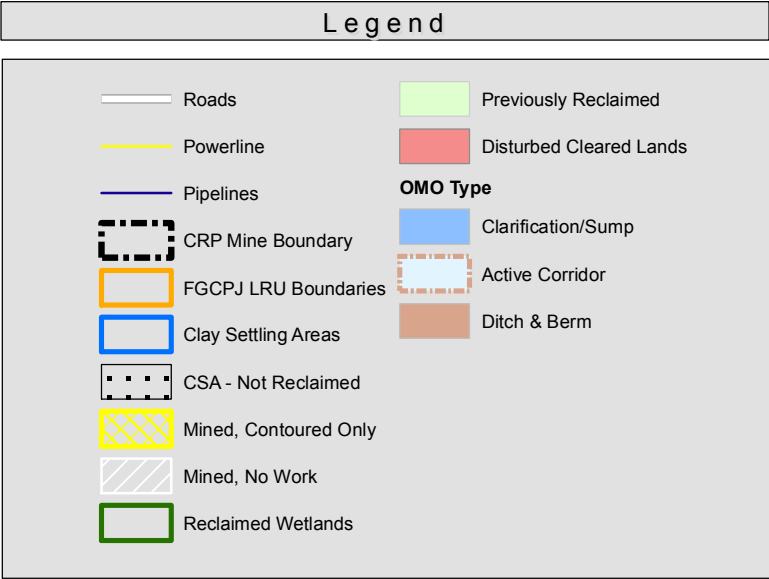
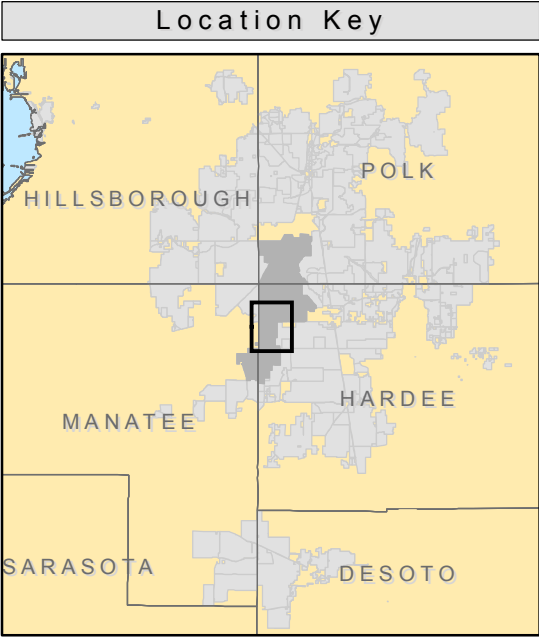
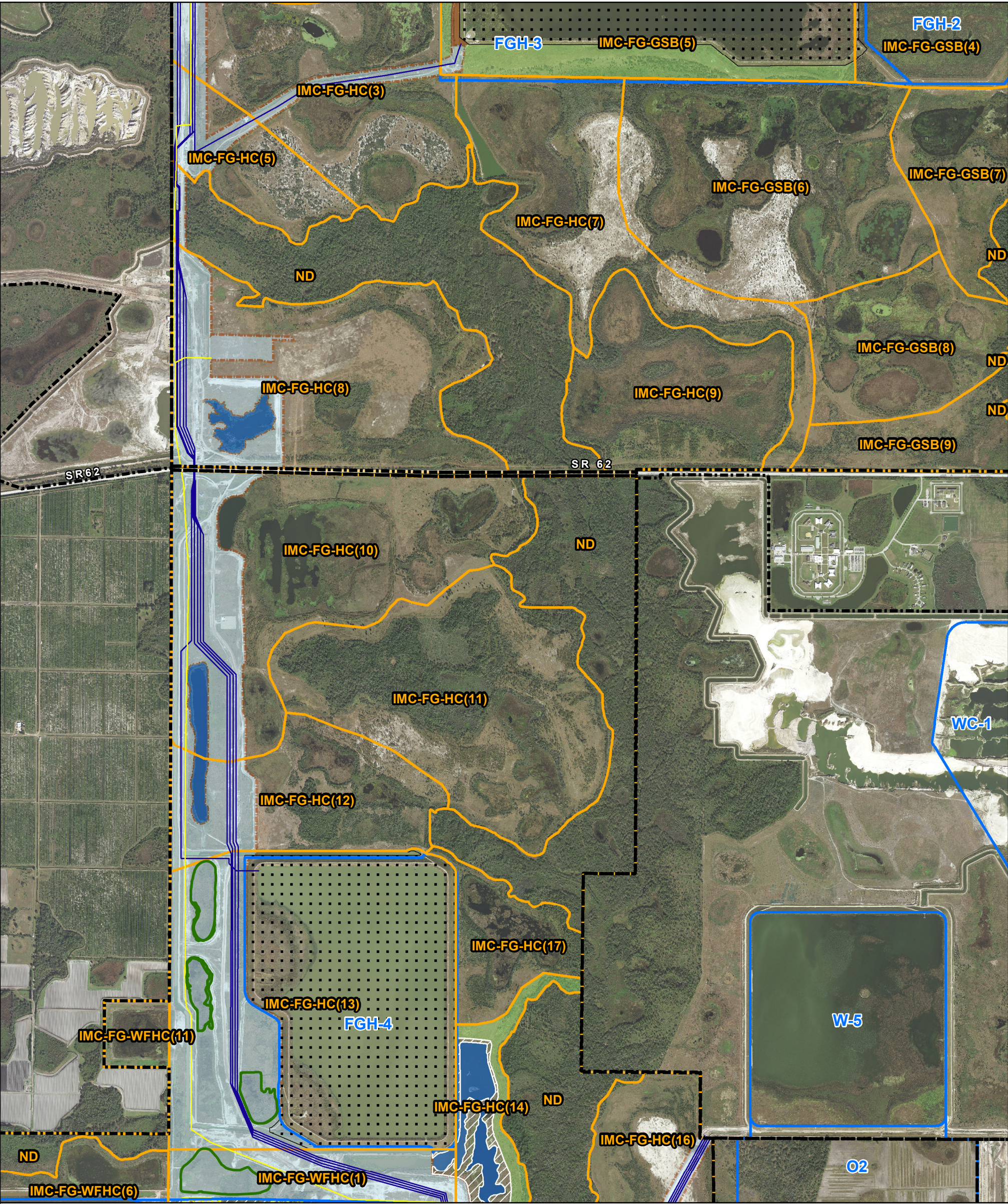
^a Clay Settling Area (CSA) in use for water control

^b Area has been mined, but CSA has not been built - future Ona Mine

2018 Variance Renewal Fort Green North



2018 Variance Renewal Fort Green Central



2018 Variance Renewal Fort Green South

