



# Florida Department of Environmental Protection

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## PERMITTEE

White Springs Agricultural Chemicals, Inc.  
PO Box 300  
White Springs, FL 32096

Authorized Representative:  
Mr. Terry L. Baker, General Manager

Air Permit No. 0470002-074-AC  
Permit Expires: December, 31  
2011  
Issue Date: October 25, 2010  
Suwannee River/Swift Creek  
Complex  
ARMS ID No. 0470002  
Project: EU No. 074, Concrete  
Batch Plant

This is the final air construction permit, which authorizes construction of a concrete batch plant for the purpose of filling in a sinkhole which occurred at the facility in early 2010. The proposed work will be conducted at the existing Suwannee River/Swift Creek Complex, which is a phosphate mining and chemical production facility (Standard Industrial Classification No. 2874). The existing facility is located in Hamilton County east of State Road (SR) 137, east of US 41, north of White Springs, FL. The UTM coordinates are Zone 17: 328.3 km East; 3368.8 km North.

This final permit is organized by the following sections.

Section 1. General Information

Section 2. Administrative Requirements

Section 3. Emissions Unit Specific Conditions

Section 4. Appendices

Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section 4 of this permit.

This air pollution construction permit is issued under the provisions of: Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to conduct the proposed work in accordance with the conditions of this permit. This project is subject to the general preconstruction review requirements in Rule 62-212.300, F.A.C. and is not subject to the preconstruction review requirements for major stationary sources in Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

Upon issuance of this final permit, any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statutes by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection

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in the Office of General Counsel (Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000) and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within 30 days after this order is filed with the clerk of the Department.

Executed in Jacksonville, Florida



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Christopher L. Kirts, P. E.  
District Air Program Administrator

#### CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Permit package (including the Final Determination and Final Permit) was sent by electronic mail (or a link to these documents made available electronically on a publicly accessible server) with received receipt requested before the close of business on 10/25/10 to the persons listed below.

Mr. Pradeep Raval, Koogler and Associates, Inc. [praval@kooglerassociates.com](mailto:praval@kooglerassociates.com)  
Mr. John B. Koogler, Ph.D., P.E., Koogler and Associates, Inc. [jkoogler@kooglerassociates.com](mailto:jkoogler@kooglerassociates.com)  
Mr. Terry L. Baker, White Springs Agricultural Chemicals, Inc. [tbaker@pcsphosphate.com](mailto:tbaker@pcsphosphate.com)  
Mr. Bill Ellis, White Springs Agricultural Chemicals, Inc. [wjellis@pcsphosphate.com](mailto:wjellis@pcsphosphate.com)

Clerk Stamp

**FILING AND ACKNOWLEDGMENT FILED**, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated agency clerk, receipt of which is hereby acknowledged.



10/25/10

\_\_\_\_\_  
(Clerk)

\_\_\_\_\_  
(Date)

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**SECTION 1. GENERAL INFORMATION (DRAFT)**

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**FACILITY AND PROJECT DESCRIPTION**

This facility processes phosphate rock to produce several products at the Suwannee River/Swift Creek Complex (two plants). The facility consists of one rock grinder, two phosphoric acid plants, two defluorinated phosphate (DFP) plants, one dical process, two diammonium phosphate (DAP) plants, one monoammonium (MAP)/DAP storage building, one MAP/DAP screen/shipping building, four sulfuric acid plants, two phosphoric acid filters, four superphosphoric acid plants, one green superphosphoric plant, the Swift Creek Mine (SCM) rock dryer, and one acid clarification plant. The facility also has storage silos associated with the Swift Creek Mine and the DFP plant.

**Existing Facility**

**The existing facility consists of the following emissions unit(s).**

Facility ID No. 0470002	
ID No.	Emission Unit Description
001	#2 Phosphate Rock Grinder
003	"A" Defluorinated Phosphate (DFP) Plant
004	X-Train (Dical process)
008	"Y" Train-#1 Diammonium Phosphate (DAP) Plant
010	#1 Monoammonium (MAP)/DAP/Storage Building
015	MAP/DAP Shipping and Screening Facility
020	"B" Phosphoric Acid Plant
021	"C" Sulfuric Acid Plant
022	"D" Sulfuric Acid Plant
032	Z-Train (#2 DAP)
034	South Phosphoric Acid Filters
035	North Phosphoric Acid Filters
036	"A" and "B" Superphosphoric Acid Plants
038	"B" Defluorinated Phosphate (DFP) Plant
039	"C" Auxiliary Boiler
040	"D" Auxiliary Boiler
042	DFP Feed Prep
044	"A" and "B" DFP Coolers
054	Molten Sulfur System
061	Green Superphosphoric Plant
062	Defluorinated Phosphate (DFP) Silos
064	Swift Creek Mine (SCM) Rock Dryer
065	Swift Creek Mine Silos Mineral Storage and Conveyor System
066	"E" Sulfuric Acid Plant

## SECTION 1. GENERAL INFORMATION (DRAFT)

067	"F" Sulfuric Acid Plant
068	"E" Auxiliary Boiler
069	"D" Phosphoric Acid Plant
070	"C" and "D" Superphosphoric Acid Plants
071	Acid Clarification Plant
072	Molten Sulfur System for "E" & "F" Sulfuric Acid Plants

### Proposed Project

The applicant has requested the authorization to construct a concrete batch plant for the purpose of filling in a sinkhole which occurred at the facility in early 2010. The entire concrete batch plant and auxiliary equipment will be trailer mounted for ease of movement. Aggregate and cement will be received in bags and/or by truck. Raw materials will be stored in bins, transferred via screw conveyor to a dry blender, and then fed with water to the mixing truck(s). The trucks will deliver the concrete to a staging area where it will be pumped to the desired location. The storage bin and dry blender will be equipped with a cartridge filter for particulate matter control. Auxiliary equipment includes a diesel engine generator, diesel engine power screen, and a diesel engine air compressor. The diesel engines will fire ultra low sulfur No. 2 fuel oil with a maximum sulfur content of 15 ppm. This project will add the following emissions unit:

Facility ID No. 0470002	
ID No.	Emission Unit Description
074	Concrete Batch Plant

Pursuant to Rule 62-212.400, F.A.C., White Springs Agricultural Chemicals, Inc. provided information to show that the project will not exceed the significant emissions rates that require preconstruction review for the Prevention of Significant Deterioration (PSD) of Air Quality.

### FACILITY REGULATORY CLASSIFICATION

- The facility is a major source of hazardous air pollutants (HAP).
- The facility does not operate units subject to the acid rain provisions of the Clean Air Act.
- The facility is a Title V major source of air pollution in accordance with Chapter 213, F.A.C.
- The facility is a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.

## SECTION 2. ADMINISTRATIVE REQUIREMENTS (DRAFT)

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1. Permitting Authority: The permitting authority for this project is the Northeast District Office, Air Resources Section, Florida Department of Environmental Protection (Department). The Northeast District Office's mailing address is 7825 Baymeadows Way, Suite 200B, Jacksonville, Florida 32256-7590. All documents related to applications for permits to operate an emissions unit shall be submitted to the Northeast District Office. The Permitting Authority's telephone number is 904/807-3300.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Northeast District Office. The mailing address and phone number of the District Office is: 7825 Baymeadows Way, Suite 200B, Jacksonville, Florida 32256. The Compliance Authority's telephone number is 904/807-3300.
3. Appendices: The following Appendices are attached as part of this permit:
  - a. Appendix A. Citation Formats and Glossary of Common Terms;
  - b. Appendix B. General Conditions;
  - c. Appendix C. Common Conditions
  - d. Appendix D. Common Testing Requirements
4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296, and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.
5. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]
6. Modifications: The permittee shall notify the Compliance Authority upon commencement of construction. No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1) (a), F.A.C.]
7. Source Obligation:
  - a. At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.
  - b. At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the

## SECTION 2. ADMINISTRATIVE REQUIREMENTS (DRAFT)

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enforceable limitation) solely by exceeding its projected actual emissions, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.

[Rule 62-212.400(12), F.A.C.]

8. Application for Title V Permit: This permit authorizes construction of the permitted emission unit and initial operation to determine compliance with Department rules. A Title V air operation permit is required for regular operation of the permitted emissions unit. The permittee shall apply for a Title V air operation permit revision at least 90 days prior to expiration of this permit, but no later than 180 days after the emissions unit commences operation. To apply for a Title V operation permit revision, the applicant shall submit the appropriate application form, required compliance test results, and such additional information as the Department may by law require. The application shall be submitted to the appropriate Permitting and Compliance Authority.  
[Rules 62-4.030, 62-4.050, 62-4.220 and 62-213.420(1)(a)3., F.A.C.]

### SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (DRAFT)

#### Concrete Batch Plant (EU 074)

This section of the permit addresses the following emissions unit.

ID No.	Emission Unit Description
074	Concrete Batch Plant

#### PROPOSED WORK

1. Concrete Batch Plant: The applicant has requested the authorization to construct a concrete batch plant for the purpose of filling in a sinkhole which occurred at the facility in early 2010. The entire concrete batch plant and auxiliary equipment will be trailer mounted for ease of movement. Aggregate and cement will be received in bags and/or by truck. Raw materials will be stored in bins, transferred via screw conveyor to a dry blender, and then fed with water to the mixing truck(s). The trucks will deliver the concrete to a staging area where it will be pumped to the desired location. The storage bin and dry blender will be equipped with a cartridge filter for particulate matter control. Auxiliary equipment includes a diesel engine generator, diesel engine power screen, and a diesel engine air compressor. The diesel engines will fire ultra low sulfur No. 2 fuel oil with a maximum sulfur content of 15 ppm.

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#### PERFORMANCE RESTRICTIONS

2. Capacities: The plant has a capacity of producing 120 cubic yards of concrete per hour. The plant will be restricted to a maximum production of concrete, while at this facility, to 120,000 cubic yards per year. The cement and cement additive silo(s) shall be equipped with high efficiency dust collections devices (baghouses). The baghouses shall be operated at all times that the silo(s) are in operation.

[Rule 62-4.070(3), F.A.C. and Application No. 0470002-074-AC]

3. Hours of Operation: The hours of operation shall not be limited (i.e., 8760 hours per year).

[Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]

#### EMISSION LIMITING STANDARDS

4. Visible Emissions: Emissions from silos, weigh hoppers (batchers), and other enclosed storage and conveying equipment shall be controlled to the extent necessary to limit visible emissions to 5 percent opacity.

[Rule 62-296.414(1), F.A.C.]

5. The owner or operator shall take reasonable precautions to control unconfined emissions from hoppers, storage and conveying equipment, conveyor drop points, truck loading and unloading, and unpaved roads. The following shall constitute reasonable precautions:

- a. Management of unpaved roads which shall include the following:

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## SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (DRAFT)

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### Concrete Batch Plant (EU 074)

- (i) Wetting of unpaved roads used in this project will be required twice daily unless rainfall or previous wetting has eliminated visible fugitive road dust emissions.
  - (ii) Reduce truck speeds as necessary to minimize visible dust from truck traffic.
- b. Use of spray bar, chute, or partial enclosure to mitigate emissions at the material drop point into the truck.

[Rule 62-296.320(4)(c), Rule 62-296.414(2), F.A.C.]

### SPECIFIC TESTING REQUIREMENTS

6. Visible Emissions. Visible Emissions test method shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C. The initial VE test shall be conducted within 30 days of start-up of the concrete batch plant at the site. Testing shall be conducted at the dust control emission point (EP), including but limited to the storage silo(s) and the blender. Testing at each EP shall be performed while loading a tanker truck into the silo and loading material into the blender respectively. The permittee shall notify the Department of the start-up date of the concrete batch plant in writing or by e-mail at [jerry.woosley@dep.state.fl.us](mailto:jerry.woosley@dep.state.fl.us).

[Rules 62-4.070, 62-213.420(1)(a)3., 62-297.310 and 62-297.401, F.A.C.]

7. Visible emissions tests of silo dust collector exhaust points shall be conducted while loading the silo at a rate that is representative of the normal silo loading rate. The minimum loading rate shall be 25 tons per hour unless such rate is unachievable in practice. If emissions from the weigh hopper (batcher) operation are also controlled by the silo dust collector, the batching operation shall be in operation during the visible emissions test. The batching rate during the emissions test shall be representative of the normal batching rate and duration. Each test report shall state the actual silo loading rate during emissions testing and, if applicable, whether or not batching occurred during emissions testing.

[Rule 62-296.414(3)(c), F.A.C.]

8. If emissions from the weigh hopper (batcher) operation are controlled by a dust collector which is separate from the silo dust collector, visible emissions tests of the weigh hopper (batcher) dust collector exhaust point shall be conducted while batching at a rate that is representative of the normal batching rate and duration. Each test report shall state the actual batching rate during emissions testing.

[Rule 62-296.414(3)(d), F.A.C.]

### RECORDKEEPING AND REPORTING REQUIREMENTS

9. The permittee shall maintain daily records of the amount of wetting of the haul road including number of applications, approximate quantity of water applied, and reason if less than two



### SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (DRAFT)

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#### Concrete Batch Plant (EU 074)

applications of water were applied daily. These records shall be made available to the Department upon request.

[Rule 62-212.300, Rule 62-4.070, F.A.C.]

10. Notification of compliance testing and submittal of compliance test reports shall be conducted in accordance with Section 4. Appendix D of this permit.

[Rules 62-297.310(7)(a)9., 62-297.310(8)(b), F.A.C.]