Department of the Army
Permit Number SAJ-1993-01395 (SP-JPF)

Attachment A
This map and all data contained within are supplied as is with no warranty. ENTRIX, Inc. expressly disclaims responsibility for damages or liability from any claims resulting from the use or misuse of this map. It is the sole responsibility of the user to determine if the data on this map meets the user’s needs. This map was not created as survey data, nor should it be used as such. It is the user’s responsibility to obtain proper survey data, prepared by a licensed surveyor, where required by law.
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Figure 3A
ACOE Jurisdictional / Non-Jurisdictional Wetlands
Compensatory Mitigation Plan
CF Industries South Pasture Extension
Hardee County, FL
Compensatory Mitigation Plan
CF Industries South Pasture Extension
Hardee County, FL

Figure 3B
ACOE Jurisdictional / Non-Jurisdictional Wetlands

ACOE Jurisdictional
ACOE Non-Jurisdictional
Utility Corridor/Drainline Crossing
No Mine

CF South Pasture Extension Boundary - 7,512.8 ac. +/-
Figure EN-7 Existing Land Use
CF Industries South Pasture Extension
Hardee County, FL
This map and all data contained within are supplied as is with no warranty. ENTRIX, Inc. expressly disclaims responsibility for damages or liability from any claims that may arise out of the use or misuse of this map. It is the sole responsibility of the user to determine if the data on this map meets the user’s needs. This map was not created as survey data, nor should it be used as such. It is the user’s responsibility to obtain proper survey data, prepared by a licensed surveyor, where required by law.

Coordinate System: NAD 1983 UTM Zone 17N feet

Existing Crossings to Remain

South Pasture Extension Boundary

Clay Settling Area Footprints

No Mine

Figure RP-3 Post-Reclamation Land Use

CF Industries
South Pasture Extension
Hardee County, FL
FIGURE 2 PROPOSED PROTECTION LEVELS TO UPDATE THE CMP

Planned Habitat Areas
Immediate Protection Level 1 - South Pasture Extension - 1094.7 ac. +/-
Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-
Other Habitat Restoration
Post Reclamation Land Use
200

MOSAIC FERTILIZER, LLC.
SOUTH PASTURE EXTENSION
HARDEE COUNTY, FLORIDA

Source: Dec. 2014 Mosaic Imagery

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SOUTH PASTURE EXTENSION
Mosaic Fertilizer, LLC
FIGURE 2
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP
FIGURE 2
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP

SOUTH PASTURE
EXTENSION
Mosaic Fertilizer, LLC

Post-Reclamation Land Use

Immediate Protection Level 1 - South Pasture Extension - 1894.7 ac. +/-
Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-
Figure 2

Proposed Protection Levels to Update the CMP

South Pasture Mine
South Pasture Extension
No Mine Boundary
Planned Habitat Areas
Immediate Protection Level 1 - South Pasture Extension - 1094.7 ac. +/-
Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-
SOUTH PASTURE EXTENSION
Mosaic Fertilizer, LLC
FIGURE 2
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP

South Pasture Mine
South Pasture Extension
No Mine Boundary
Planned Habitat Areas
Immediate Protection Level 1 - South Pasture Extension - 1094.7 ac. +/-
Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-

Other Habitat Restoration
Post Reclamation Land Use

200
300
400
500
600
700
800

1 in = 400 feet

SAJ-2013-01395  November 10, 2016  Sheet 17 of 88
Service Layer Credits:
SOUTH PASTURE EXTENSION
Mosaic Fertilizer, LLC
FIGURE 2
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP

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P:\0010CFI\005-South Pasture Misc. Services\GIS\PROTECTION LEVELS 8X11 400

1 in = 400 feet

Sheet 8 of 56

South Pasture Mine
South Pasture Extension
No Mine Boundary
Planned Habitat Areas
Immediate Protection Level 1 - South Pasture Extension - 1894.7 ac. +/-
Post Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-
Other Habitat Restoration
Land Use
Post Reclamation

Mosaic
SOUTH PASTURE EXTENSION
Mosaic Fertilizer, LLC
FIGURE 2
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP

Sheet 8 of 56
South Pasture Mine
South Pasture Extension
No Mine Boundary
Planned Habitat Areas
Immediate Protection Level 1 - South Pasture Extension - 1094.7 ac. +/-
Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-
Other Habitat Restoration
Post Reclamation Land Use

1 in = 400 feet

Sheet 9 of 56

SOUTH PASTURE EXTENSION
Mosaic Fertilizer, LLC
FIGURE 2
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP

P:\002\CF\005-South Pasture Misc. Services\GIS\PROTECTION LEVELS 8X11 400
South Pasture Extension

Planned Habitat Areas

Immediate Protection Level 1 - South Pasture Extension - 1094.7 ac. +/-

Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-

Other Habitat Restoration

Post Reclamation Land Use

SAJ-2013-01395    November 10, 2016    Sheet 20 of 88
Service Layer Credits:
SOUTH PASTURE EXTENSION
Mosaic Fertilizer, LLC

**FIGURE 2**

**PROPOSED PROTECTION LEVELS TO UPDATE THE CMP**

---

**South Pasture Mine**

**South Pasture Extension**

No Mine Boundary

Planned Habitat Areas

Immediate Protection Level 1 - South Pasture Extension - 1894.7 ac. +/-

Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-

**Other Habitat Restoration**

Post Reclamation Land Use

- 200
- 300
- 400
- 500
- 600
- 700
- 800

1 in = 400 feet
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SOUTH PASTURE EXTENSION
Mosaic Fertilizer, LLC
FIGURE 2
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP

Sheet 12 of 56
Figure 2

Proposed Protection Levels to Update the CMP

South Pasture Mine
South Pasture Extension
No Mine Boundary
Planned Habitat Areas
Immediate Protection Level 1 - South Pasture Extension - 1094.7 ac. +/-
Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-

Other Habitat Restoration
Post-Reclamation
Land Use

200
300
400
500
600
700
800

0 100 200 400 Feet
1 in = 400 feet

Sheet 13 of 56

SOUTH PASTURE EXTENSION
Mosaic Fertilizer, LLC

PROPOSED PROTECTION LEVELS TO UPDATE THE CMP

P:\0010CF1005-South Pasture Mine Services\GIS PROTECTION LEVELS SSI1 400
**SOUTH PASTURE EXTENSION**
Mosaic Fertilizer, LLC

**FIGURE 2**
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP

South Pasture Mine
South Pasture Extension
No Mine Boundary
Planned Habitat Areas
Immediate Protection Level 1 - South Pasture Extension - 1894.7 ac. +/-
Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP

SOUTH PASTURE EXTENSION
Mosaic Fertilizer, LLC

FIGURE 2

Other Habitat Restoration
Post Reclamation
Land Use

- South Pasture Extension - 1094.7 ac., +/-
- Immediate Protection Level 1 - Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac., +/-
FIGURE 2
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP

<table>
<thead>
<tr>
<th>South Pasture Mine</th>
<th>Other Habitat Restoration</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Mine Boundary</td>
<td>Post Reclamation</td>
</tr>
<tr>
<td>Planned Habitat Areas</td>
<td>Land Use</td>
</tr>
<tr>
<td>Immediate Protection Level 1 - South Pasture Extension - 1094.7 ac. +/-</td>
<td></td>
</tr>
<tr>
<td>Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-</td>
<td></td>
</tr>
</tbody>
</table>

1 in = 400 feet

Sheet 17 of 56
South Pasture Mine
South Pasture Extension
No Mine Boundary
Planned Habitat Areas
Immediate Protection Level 1 - South Pasture Extension - 1094.7 ac. +/-.
Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-.
Other Habitat Restoration
Post Reclamation Land Use

1 in = 400 feet

Sheet 18 of 56
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP

SAJ-2013-01395  November 10, 2016  Sheet 29 of 88
**FIGURE 2**

**PROPOSED PROTECTION LEVELS TO UPDATE THE CMP**

- **South Pasture Mine**
- **South Pasture Extension**
- **No Mine Boundary**
- **Planned Habitat Areas**
- **Immediate Protection Level 1 - South Pasture Extension - 1894.7 ac. +/-**
- **Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-**

**Legend:**
- **200**
- **300**
- **400**
- **500**
- **600**
- **700**
- **800**

**Note:**
- 1 in = 400 feet
SOUTH PASTURE
EXTENSION
Mosaic Fertilizer, LLC
FIGURE 2
PROPOSED
PROTECTION
LEVELS
TO UPDATE
THE CMP

South Pasture Mine
South Pasture Extension
No Mine Boundary
Planned Habitat Areas
Immediate Protection Level 1 - South Pasture Extension - 1094.7 ac. +/-
Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-

Other Habitat Restoration
Post Reclamation Land Use

1 in = 400 feet
**FIGURE 2**
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP

- **South Pasture Mine**
- **South Pasture Extension**
- **No Mine Boundary**
- **Planned Habitat Areas**
- **Immediate Protection Level 1 - South Pasture Extension** - 1094.7 ac. +/-
- **Post-Reclamation Protection Level 1** (includes Temporary Disturbance) - 2205.0 ac. +/-

Other Habitat Restoration
Post Reclamation Land Use

South Pasture Mine
No Mine Boundary
Planned Habitat Areas
Immediate Protection Level 1 - South Pasture Extension - 1094.7 ac. +/-
Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-

1 in = 400 feet

Sheet 22 of 56
**Proposed Protection Levels to Update the CMP**

**South Pasture Extension**

- Planned Habitat Areas
- Immediate Protection Level 1 - South Pasture Extension - 1094.7 ac. +/-
- Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-

**Other Habitat Restoration**

- Post Reclamation Land Use
- 200
- 300
- 400
- 500
- 600
- 700
- 800

**Legend**

- South Pasture Mine
- South Pasture Extension
- No Mine Boundary

**Mosaic Fertilizer, LLC**

**Figure 2**

- 1 in = 400 feet

**Sheet 23 of 56**

**Sheet 23 of 56**

**South Pasture Mine**

**South Pasture Extension**

**No Mine Boundary**

**Planned Habitat Areas**

**Immediate Protection Level 1 - South Pasture Extension**

**Post-Reclamation Protection Level 1**

**(includes Temporary Disturbance)**

**2205.0 ac. +/-**
FIGURE 2
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP
FIGURE 2
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP

South Pasture Mine
South Pasture Extension
No Mine Boundary
Planned Habitat Areas
Immediate Protection Level 1 - South Pasture Extension - 1094.7 ac. +/-
Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-
FIGURE 2
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP

SOUTH PASTURE EXTENSION
Mosaic Fertilizer, LLC

Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-
Service Layer Credits:
SOUTH PASTURE EXTENSION
Mosaic Fertilizer, LLC

FIGURE 2
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP

South Pasture Mine
South Pasture Extension
No Mine Boundary
Planned Habitat Areas
Immediate Protection Level 1 - South Pasture Extension - 1894.7 ac. +/-
Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-

Other Habitat Restoration
Post Reclamation Land Use

0 200 400 600 800 Feet
1 in = 400 feet

Sheet 29 of 56
FIGURE 2
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP

Sheet 30 of 56

South Pasture Mine
South Pasture Extension
No Mine Boundary
Planned Habitat Areas
Immediate Protection Level 1 - South Pasture Extension - 1894.7 ac. +/-
Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-

Other Habitat Restoration
Post Reclamation Land Use

1 in = 400 feet
FIGURE 2

PROPOSED PROTECTION LEVELS TO UPDATE THE CMP

SOUTH PASTURE EXTENSION
Mosaic Fertilizer, LLC

Sheet 31 of 56

P:\0010CFI\005-South Pasture Misc. Services\GIS\PROTECTION LEVELS 8X11 400
Figure 2 - Proposed Protection Levels to Update the CMP

- **Immediate Protection Level 1**
  - South Pasture Extension - 1094.7 ac. +/-
- **Post-Reclamation Protection Level 1** (includes Temporary Disturbance)
  - 2205.0 ac. +/-

Legend:
- South Pasture Mine
- South Pasture Extension
- No Mine Boundary
- Planned Habitat Areas
- Immediate Protection Level 1 - South Pasture Extension - 1094.7 ac. +/-
- Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-

Other Habitat Restoration

- 200
- 300
- 400
- 500
- 600
- 700
- 800

Land Use

1 in = 400 feet
South Pasture Mine
South Pasture Extension
No Mine Boundary
Planned Habitat Areas
Immediate Protection Level 1 - South Pasture Extension - 1894.7 ac. +/-
Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-

Other Habitat Restoration
Post Reclamation Land Use

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1 in = 400 feet
South Pasture Mine
South Pasture Extension
No Mine Boundary
Planned Habitat Areas
Immediate Protection Level 1 - South Pasture Extension - 1894.7 ac. +/-
Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-

Immediate Protection Level 1

Post-Reclamation Protection Level 1

Other Habitat Restoration

Land Use

200
300
400
500
600
700
800

1 in = 400 feet

Sheet 36 of 56

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Mosaic Fertilizer, LLC

FIGURE 2

PROPOSED PROTECTION LEVELS TO UPDATE THE CMP

FIGURE 2

PROPOSED PROTECTION LEVELS TO UPDATE THE CMP
Service Layer Credits:
SOUTH PASTURE EXTENSION
Mosaic Fertilizer, LLC

FIGURE 2
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP

South Pasture Mine
South Pasture Extension
No Mine Boundary
Planned Habitat Areas
Immediate Protection Level 1 - South Pasture Extension - 1894.7 ac. +/-
Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-

Other Habitat Restoration
Post Reclamation Land Use

1 in = 400 feet

Sheet 37 of 56
FIGURE 2
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP

South Pasture Mine
South Pasture Extension
No Mine Boundary
Planned Habitat Areas
Immediate Protection Level 1 - South Pasture Extension - 1894.7 ac. +/-
Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-
Other Habitat Restoration Post Reclamation Land Use

Sheet 38 of 56
**Figure 2**

**Proposed Protection Levels to Update the CMP**

- **Immediate Protection Level 1**
  - South Pasture Extension: 1094.7 ac. +/-
  - Post-Reclamation Protection Level 1 (includes Temporary Disturbance): 2205.0 ac. +/-

**Legend**

- South Pasture Mine
- South Pasture Extension
- No Mine Boundary
- Planned Habitat Areas
- Immediate Protection Level 1 - South Pasture Extension: 1094.7 ac. +/-
- Post-Reclamation Protection Level 1 (includes Temporary Disturbance): 2205.0 ac. +/-

**Scale**

1 in = 400 feet

**Locations**

- South Pasture Mine
- South Pasture Extension
- Planned Habitat Areas
- Immediate Protection Level

**Additional Information**

- Mosaic Fertilizer, LLC
- SAJ-2013-01395
- November 10, 2016
- Sheet 39 of 56
FIGURE 2
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP
Service Layer Credits:

SOUTH PASTURE EXTENSION
Mosaic Fertilizer, LLC

FIGURE 2
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP

South Pasture Mine
South Pasture Extension
No Mine Boundary
Planned Habitat Areas
Immediate Protection Level 1 - South Pasture Extension - 1094.7 ac., +/-
Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac., +/-

Other Habitat Restoration
Post Reclamation Land Use

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PROPOSED PROTECTION LEVELS TO UPDATE THE CMP

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SOUTH PASTURE EXTENSION
Mosaic Fertilizer, LLC

FIGURE 2

Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-

Immediate Protection Level 1 - South Pasture Extension - 1894.7 ac. +/-

Other Habitat Restoration

Post Reclamation Land Use

200

300

400

500

600

700

800

0 100 200 300 400 Feet

Sheet 42 of 56

1 in = 400 feet
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP

SAJ-2013-01395    November 10, 2016    Sheet 54 of 88
SAJ-2013-01395  November 10, 2016  Sheet 55 of 88

SOUTH PASTURE EXTENSION
Mosaic Fertilizer, LLC
FIGURE 2
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP
FIGURE 2
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP
SOUTH PASTURE
EXTENSION
Mosaic Fertilizer, LLC
FIGURE 2
PROPOSED
PROTECTION
LEVELS
TO UPDATE
THE CMP

Sheet 47 of 56
Service Layer Credits:
Mosaic Fertilizer, LLC

**FIGURE 2**
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP

<table>
<thead>
<tr>
<th>South Pasture Mine</th>
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<tr>
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<td></td>
</tr>
<tr>
<td>Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-</td>
<td></td>
</tr>
</tbody>
</table>

Post Reclamation Land Use

Legend:
- 200
- 300
- 400
- 500
- 600
- 700
- 800

1 in = 400 feet

Sheet 48 of 56
SOUTH PASTURE EXTENSION
Mosaic Fertilizer, LLC
FIGURE 2
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP

South Pasture Mine
South Pasture Extension
No Mine Boundary
Planned Habitat Areas
Immediate Protection Level 1 - South Pasture Extension - 1094.7 ac. +/- Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-

Other Habitat Restoration
Post Reclamation Land Use

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FIGURE 2
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP
Figure 2
Proposed Protection Levels to Update the CMP

South Pasture Mine
South Pasture Extension
No Mine Boundary
Planned Habitat Areas
Immediate Protection Level 1 - South Pasture Extension - 1894.7 ac. +/-
Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-

Other Habitat Restoration
Post Reclamation Land Use

0 200 400 600 800 Feet
1 in = 400 feet
South Pasture Mine
South Pasture Extension
No Mine Boundary
Planned Habitat Areas
Immediate Protection Level 1 - South Pasture Extension - 1894.7 ac. +/-
Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-
Other Habitat Restoration
Post Reclamation Land Use

0 200 400 600 Feet
1 in = 400 feet

FIGURE 2
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP
FIGURE 2
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP

South Pasture Mine
South Pasture Extension
No Mine Boundary
Planned Habitat Areas
Immediate Protection Level 1 - South Pasture Extension - 1094.7 ac. +/-
Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-

Other Habitat Restoration
Post Reclamation Land Use

1 in = 400 feet

Sheet 53 of 56

SOUTH PASTURE EXTENSION
Mosaic Fertilizer, LLC

P:\001\CF1005-South Pasture Mine Services\GIS\PROTECTION LEVELS SKU1 400
FIGURE 2
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP
SERVICE LAYER CREDITS:

Mosaic Fertilizer, LLC

PROPOSED PROTECTION LEVELS TO UPDATE THE CMP

Sheet 55 of 56

200
300
400
500
600
700
800

Other Habitat Restoration
Post Reclamation
Land Use

Immediate Protection Level 1 - South Pasture Extension - 1094.7 ac. +/-
Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-
PROPOSED PROTECTION LEVELS TO UPDATE THE CMP

- South Pasture Mine
- South Pasture Extension
- No Mine Boundary
- Planned Habitat Areas
- Immediate Protection Level 1 - South Pasture Extension - 1094.7 ac. +/-
- Post-Reclamation Protection Level 1 (includes Temporary Disturbance) - 2205.0 ac. +/-

Legend:
- South Pasture Mine
- Other Habitat Restoration
- Post Reclamation Land Use

Scale: 1 in = 400 feet

Sheet 56 of 56
FIGURE SRO-1
PRE-MINING SUB-BASINS & STREAMS
SOUTH PASTURE EXTENSION
HARDEE COUNTY, FLORIDA

Explanation of Features
- No-Mine Boundary
- CF Property
- Lotic Systems
- Streams
  - 511 - Natural Stream
  - 512 - Ditched Stream

Pre-Mining Basins
- Brushy Creek
- Doe Branch
- East Branch

Notes:
- South Pasture
- South Pasture Extension
- Horse Creek
- Lettis Creek
- Troublesome Creek

Project No.: 03-16268

JOHN KIEFER P.E.
FLA. REG. NO. 51991

DATE:
Date: August 2011
Checked By: JHK
Map Prepared By: ARK
FIGURE SRO-2A
PRE-MINING STREAM SEGMENTS
SOUTH PASTURE EXTENSION
HARDEE COUNTY, FLORIDA

Notes:
1. This map is intended to be used for planning purposes only. It is not a survey.

Explanation of Features

- CF Property
- No-Mine Boundary
- Lotic Systems
- Streams
  - 511 - Natural Stream
  - 512 - Ditched Stream

Map Prepared By: ARK
Reviewed By: JHK

Date: Revised Aug. 2011
Scale: 1" = 700 Feet

Brushy Creek
Horse Creek

LOCATION MAP
Not to Scale
FIGURE SRO-2B
PRE-MINING STREAM SEGMENTS
SOUTH PASTURE EXTENSION
HARDEE COUNTY, FLORIDA

Explanation of Features

- CF Property
- No-Mine Boundary
- Lotic Systems
- Streams
  - 511 - Natural Stream
  - 512 - Ditched Stream

Pre-Mining Basins
- Horse Creek
- Letts Creek
- Troublesome Creek
- Brushy Creek
- Doe Branch
- East Branch

Notes:
1. This map is intended to be used for planning purposes only. It is not a survey.

LOCATION MAP
Not to Scale

file Pathway: V:\03-16268_CF_SP_SPX_Permit\Streams_Restoration\MXD\Update_083011\2B_Stream_Segs_updatev2_20110830.mxd
Project No.: 03-16268

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FIGURE SRO-2C
PRE-MINING STREAM SEGMENTS
SOUTH PASTURE EXTENSION
HARDEE COUNTY, FLORIDA

Explanation of Features
- CF Property
- No-Mine Boundary
- Lotic Systems
- Streams
  - 511 - Natural Stream
  - 512 - Ditched Stream
- Pre-Mining Basins
  - Horse Creek
  - Brushy Creek
  - Lettis Creek
  - Troublesome Creek

Notes:
1. This map is intended to be used for planning purposes only. It is not a survey.
Explanation of Features

- CF Property
- No-Mine Boundary
- Lotic Systems
- Streams
  - 511 - Natural Stream
  - 512 - Ditched Stream

Pre-Mining Basins
- Horse Creek
- Letts Creek
- Troublesome Creek

Notes:
1. This map is intended to be used for planning purposes only. It is not a survey.
FIGURE SRO-2E
PRE-MINING STREAM SEGMENTS
SOUTH PASTURE EXTENSION
HARDEE COUNTY, FLORIDA

Explanation of Features
- CF Property
- No-Mine Boundary
- Lotic Systems
- Streams
  - 511 - Natural Stream
  - 512 - Ditched Stream
- Pre-Mining Basins
  - Horse Creek
  - Letts Creek
  - Troublesome Creek

Notes:
1. This map is intended to be used for planning purposes only. It is not a survey.

Date: Revised Aug. 2011
Checked By: JHK
Map Prepared By: ARK

LOCATION MAP
Not to Scale

File Pathway: V:\03-16268_CF_SP_SPX_Permit\Streams_Restoration\MXD\Update_083011\2E_Stream_Segs_updatev2_20110830.mxd

Project No.: 03-16268

FIGURE SRO-2E PRE-MINING STREAM SEGMENTS SOUTH PASTURE EXTENSION HARDEE COUNTY, FLORIDA

Explanation of Features
- CF Property
- No-Mine Boundary
- Lotic Systems
- Streams
  - 511 - Natural Stream
  - 512 - Ditched Stream
- Pre-Mining Basins
  - Horse Creek
  - Letts Creek
  - Troublesome Creek

Notes:
1. This map is intended to be used for planning purposes only. It is not a survey.

Date: Revised Aug. 2011
Checked By: JHK
Map Prepared By: ARK

LOCATION MAP
Not to Scale

File Pathway: V:\03-16268_CF_SP_SPX_Permit\Streams_Restoration\MXD\Update_083011\2E_Stream_Segs_updatev2_20110830.mxd

Project No.: 03-16268

FIGURE SRO-2E PRE-MINING STREAM SEGMENTS SOUTH PASTURE EXTENSION HARDEE COUNTY, FLORIDA

Explanation of Features
- CF Property
- No-Mine Boundary
- Lotic Systems
- Streams
  - 511 - Natural Stream
  - 512 - Ditched Stream
- Pre-Mining Basins
  - Horse Creek
  - Letts Creek
  - Troublesome Creek

Notes:
1. This map is intended to be used for planning purposes only. It is not a survey.

Date: Revised Aug. 2011
Checked By: JHK
Map Prepared By: ARK

LOCATION MAP
Not to Scale

File Pathway: V:\03-16268_CF_SP_SPX_Permit\Streams_Restoration\MXD\Update_083011\2E_Stream_Segs_updatev2_20110830.mxd

Project No.: 03-16268

FIGURE SRO-2E PRE-MINING STREAM SEGMENTS SOUTH PASTURE EXTENSION HARDEE COUNTY, FLORIDA

Explanation of Features
- CF Property
- No-Mine Boundary
- Lotic Systems
- Streams
  - 511 - Natural Stream
  - 512 - Ditched Stream
- Pre-Mining Basins
  - Horse Creek
  - Letts Creek
  - Troublesome Creek

Notes:
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Date: Revised Aug. 2011
Checked By: JHK
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Explanation of Features
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Explanation of Features
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Explanation of Features
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Date: Revised Aug. 2011
Checked By: JHK
Map Prepared By: ARK

LOCATION MAP
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File Pathway: V:\03-16268_CF_SP_SPX_Permit\Streams_Restoration\MXD\Update_083011\2E_Stream_Segs_updatev2_20110830.mxd

Project No.: 03-16268
FIGURE SRO-3
POST-RECLAMATION
SUB-BASINS & STREAMS
SOUTH PASTURE EXTENSION
HARDEE COUNTY, FLORIDA

Explanation of Features
- No-Mine Boundary
- CF Property
- Lotic Systems
- Post-Reclamation Streams
- Enhanced Streams
- Non-Mined Streams
- Reclaimed Streams
- Post-Mining Basins
  - Brushy Creek
  - East Branch
  - Horse Creek
  - Lettis Creek
  - Troublesome Creek

Notes:

Project No.: 03-16268

File Pathway: V:\03-16268_CF_SP_SPX_Permit\Streams_Restoration\MXD\Update_083011\3_ws_bound_20110830.mxd
FIGURE SRO-4A
POST-RECLAMATION STREAM SEGMENTS
SOUTH PASTURE EXTENSION
HARDEE COUNTY, FLORIDA

Explanation of Features
- CF Property
- No-Mine Boundary
- Lotic Systems
- Post-Reclamation Streams
  - Enhanced Streams
  - Non-Mined Streams
  - Reclaimed Streams

Post-Reclamation Basins
- Horse Creek
- Lott Creek
- Troublesome Creek

Notes:
1. This map is intended to be used for planning purposes only. It is not a survey.
FIGURE SRO-4B
POST-RECLAMATION STREAM SEGMENTS
SOUTH PASTURE EXTENSION
HARDEE COUNTY, FLORIDA

Explanation of Features

- CF Property
- No-Mine Boundary
- Lotic Systems
- Post-Reclamation Streams
  - Enhanced Streams
  - Non-Mined Streams
  - reclaimed Streams

Notes:
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Explanation of Features:
- Post-Reclamation Basins
  - Home Creek
  - Lettis Creek
  - Troublesome Creek

Date: Revised Aug. 2011
Drawn By: JKH
Prepared By: ARK
FIGURE SRO-4C
POST-RECLAMATION
STREAM SEGMENTS
SOUTH PASTURE EXTENSION
HARDEE COUNTY, FLORIDA

Explanation of Features
- CF Property
- No-Mine Boundary
- Lotic Systems
- Post-Reclamation Streams
  - Enhanced Streams
  - Non-Mined Streams
  - Reclaimed Streams
- Post-Reclamation Basins
  - Horse Creek
  - Lettis Creek
  - Troublesome Creek

LOCATION MAP
Not to Scale

Notes:
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FIGURE SRO-4D
POST-RECLAMATION STREAM SEGMENTS
SOUTH PASTURE EXTENSION
HARDEE COUNTY, FLORIDA

Explanation of Features
- CF Property
- No-Mine Boundary
- Lotic Systems
- Post-Reclamation Basins
- Non-Mined Streams
- Enhanced Streams
- Reclaimed Streams

Lettis Creek
Troublesome Creek

Notes:
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Explanation of Features
- CF Property
- No-Mine Boundary
- Lotic Systems
- Post-Reclamation Basins
- Horse Creek
- Lott Creek
- East Branch
- Troublesome Creek

FIGURE SRO-4E
POST-RECLAMATION
STREAM SEGMENTS
SOUTH PASTURE EXTENSION
HARDEE COUNTY, FLORIDA
FIGURE SRO-4F
POST-RECLAMATION
STREAM SEGMENTS
SOUTH PASTURE EXTENSION
HARDEE COUNTY, FLORIDA

Notes:
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Explanation of Features
- CF Property
- No-Mine Boundary
- Lotic Systems
- Post-Reclamation Basins
- Troublesome Creek
- Horse Creek
- Lettis Creek
- East Branch
- Post-Reclamation Streams
  - Enhanced Streams
  - Non-Mined Streams
  - Reclaimed Streams

LOCATION MAP
Not to Scale

1" = 700 Feet

DATE:
Revised Aug. 2011

Checked By: JHK

Map Prepared By: ARK
ENGINEERING PLANS FOR:
CF INDUSTRIES, INC. - HARDEE PHOSPHATE COMPLEX
SOUTH PASTURE EXTENSION
BRUSHY CREEK UTILITY CORRIDOR CROSSING
HARDEE COUNTY, FLORIDA
BCI PROJECT NUMBER: 03-16268

PROJECT LOCATION

SITE LOCATION MAP
HARDEE COUNTY, FLORIDA
SECTION 3, TOWNSHIP 34 SOUTH, RANGE 23 EAST

INDEX OF DRAWINGS
SHEET NO. SHEET TITLE
1 COVER
2 GENERAL NOTES
3 PLAN AND PROFILE
4 SITE PLAN - SOUTH
5 TYPICAL CROSS SECTIONS
6 STORMWATER POLLUTION PREVENTION PLAN

FOR REVIEW ONLY
NOT FOR CONSTRUCTION

PLANS PREPARED BY:
BCI engineers & scientists
2001 E. Englewood Dr., Ste 401
Lakeland, FL 33803
863.667.2345 - www.bcieng.com

PROJECT LOCATION

SITE LOCATION MAP
HARDEE COUNTY, FLORIDA
SECTION 3, TOWNSHIP 34 SOUTH, RANGE 23 EAST

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CLEARING AND EROSION CONTROL NOTES

1. The Contractor is to prepare the site prior to beginning actual construction in drawings. Note that not all abbreviations shown here might appear to construction.

2. The Contractor is responsible for repairing any damage to existing facilities, above or below ground, that may occur as a result of the work performed by the Contractor.

3. The top 4" to 6" of ground removed during clearing and grubbing shall be stockpiled in accordance with applicable regulations.

4. Drawings shall clearly show all details not on original contract drawings but otherwise noted on drawings.

5. All specifications and documents referred to shall be of latest revisions and/or latest edition.

6. Contractor shall provide ten copies of the certified record drawings to the Engineer.

7. Contractor shall submit for review to the Owner's Engineer shop drawings on all construction work unless specifically exempted by the plans.

8. Additional costs are to be paid upon completion of work.

9. Backfill material shall be solidly tamped and compacted to a firmness equal to that of the original ground.

10. Reinforcing shall be billet steel bars conforming to ASTM A615 Grade 40 or better.

11. In no case shall swale velocities exceed 6 feet per second for ditch and swale work.

12. It may be necessary to field adjust pavement elevations to preserve the root systems and appropriate agencies and supply them with all required shop drawings, the Contractor's name, starting date, projected schedule, and other information as required. Any work otherwise noted on drawings.

13. Repair and replacement of all private and public property affected by this work shall include, but not be limited to, sidewalks, curbs, gutters, streets, structures, utilities, etc.

14. All safety notes shall be followed in the execution of work.

SAFETY NOTES

1. The Contractor shall be responsible for the execution of this project in a safe, professional manner. All Contractor personnel shall be required to dress in clothing that complies with applicable safety regulations. It is the responsibility of the Contractor to ensure that all personnel are aware of and follow all safety regulations established by the Contractor and applicable to the work to be done.

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14. All safety notes shall be followed in the execution of work.
NOTES:
1. THE LOCATIONS OF PROPOSED HEADWALLS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. STRUCTURAL DETAILS AND DESIGN CALCULATIONS HAVE NOT BEEN COMPLETED.
2. THE ESTIMATED LIVELOAD BASED ON DRAGLINE SPECIFICATIONS IS EQUAL TO 6,900,000 LBS. MINIMUM RECOMMENDED EARTH COVER OVER THE PROPOSED PIPES IS 3.5'.
3. ALL OLIGENTS SHALL BE CLASS IV CONCRETE INSTALLED WITH BEDDING CLASS C, OR EQUIVALENT.
4. TEMPORARY GRADING MAY BE REQUIRED WITHIN THE OVERFLOW SWALE PORTION OF THE SITE IN PREPARATION FOR THE DRAGLINE CROSSING. CROSSING SHALL BE RESTORED TO PERMITTED CONDITIONS WITHIN 72 HOURS FOLLOWING CROSSING ACTIVITIES.
5. EMBANKMENT MATERIAL SHALL CONTAIN NO MUCK, STUMPS, ROOTS, BRUSH, ORIGINALLY INTACT ROCK OR FILL MATERIAL THAT DOES NOT COMPACT TO THE REQUIRED DENSITY.
6. ELEVATIONS SHOWN ON THESE PLANS ARE REFERENCED TO NGVD 29. SURVEY INFORMATION OBTAINED FROM SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT. CONTRACTOR TO FIELD VERIFY EXISTING ELEVATIONS PRIOR TO CONSTRUCTION.
7. STORMWATER COLLECTION SUMP AREAS TO BE PUMPED OR DISCHARGED BY OTHER APPROVED MEANS TO PERMITTED STORMWATER MANAGEMENT AREAS, DETERMINED BY OTHERS.

HYDRAULIC DATA
- BANKFILL FLOW: 21 cfs
- BANKFILL VELOCITY: 2.8 fps
- BANKFILL UPSTREAM STAGE: 100.02
- Q25: 1015 cfs
- Q25 VELOCITY: 9.2 fps
- Q25 UPSTREAM STAGE: 105.72
- Q100: 1480 cfs
- Q100 VELOCITY: 21.7 fps
- Q100 UPSTREAM STAGE: 106.22
NOTES:
1. EXISTING GRADE LINE DEPICTS 1 FT. CONTOURS AND MAY NOT REPRESENT THE ACTUAL GRADE AT THE CROSSINGS.

FLA. REG. NO. 54648
SCOTT WUITSCHICK, P.E.

SOUTH PASTURE EXTENSION
BRUSHY CREEK UTILITY CORRIDOR CROSSING
SITE PLAN - SOUTH
HARDEE COUNTY, FLORIDA

March 3, 2011

MJF
03-16268

P:\PROJECTS-C3D\03-16268 CF - Pipe Crossings\dwg\03-16268 DLINE-XING_PLANS.dwg, 4 SITE PLAN - SOUTH, 3/3/2011 5:02:30 PM, mjones, BCI Engineers & Scientists, Inc.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION

SAJ-2013-01395  November 10, 2016  Sheet 83 of 88
1. Existing grade line depicts 1 ft. contours and may not represent the actual grade at the crossings.
NOTES:
1. THIS PLAN SHEET IS A SUPPLEMENT TO THE SOUTH PASTURE EXTENSION STORMWATER POLLUTION PREVENTION PLAN PREPARED BY AMEC BCI ENGINEERS & SCIENTISTS, INC.

2. SUGGESTED CONSTRUCTION ACTIVITY SEQUENCES
- INSTALL ALL UPSTREAM EROSION CONTROL MEASURES INCLUDING SILT FENCE.
  - EXIT ALL SEDIMENT BASINS.
  - INSTALL PROPOSED IMPROVEMENTS AND COMPLETE EARTHWORK.
  - STABILIZE SLOPES USING SOD OR OTHER ACCEPTABLE PRACTICES.

3. IN ORDER TO REDUCE OR POTENTIALLY ELIMINATE DENITRIFICATION ACTIVITIES, CONSTRUCTION SHOULD BE SCHEDULED DURING THE DRY SEASON WHEN BRUSHY CREEK HAS BEEN KNOWN TO RUN DRY.

4. THIS PLAN SHEET MUST BE REVISED WITHIN SEVEN CALENDAR DAYS FOLLOWING AN INSPECTION WHEN ADJUSTMENTS AND/OR MODIFICATIONS TO BMPS ARE NECESSARY TO CORRECT OBSERVED PROBLEMS. REVISIONS SHOULD OCCUR:
  - WHENEVER A CHANGE IN THE DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE AT THE CONSTRUCTION SITE HAS A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO THE WATERS OF THE UNITED STATES NOT PREVIOUSLY ADDRESSED IN THE DOCUMENT; OR
  - WHENEVER DISCHARGES ARE CAUSING WATER QUALITY "EXCEEDANCES" OR THE BMPS ARE INEFFECTIVE IN REACHING POLLUTANTS IN STORMWATER DISCHARGING FROM THE CONSTRUCTION SITE.

OWNER CERTIFICATION
I have read the notes and reviewed the plans and I propose to properly implement erosion and sediment control during construction.

SIGNATURE:

Printing Name:

EROSION & SEDIMENT CONTROL