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| <b>ARDAMAN &amp; ASSOCIATES, INC.</b><br><b>PROGRESS MEETING REPORT FOR</b><br><b>PINEY POINT GYPSUM STACK SYSTEM CLOSURE</b>                                                                                                                                             |                                                                                                        | File No.: 06-110A<br>Meeting Date: <u>11/30/06</u><br>Report No: <u>89</u> | Page 1 of 5<br>Report Date: <u>12/6/06</u>                                                |
| Project Name:                                                                                                                                                                                                                                                             | <b>CLOSURE CONSTRUCTION - OGS SLOPES, TOP CAPS &amp; RELIEF DITCH, SCP-S AND PHASE II - NGS SLOPES</b> |                                                                            | Project Address: 13300 U.S. Highway 41 North<br>Palmetto, Florida 34221<br>Manatee County |
| <b>ATTENDEES:</b><br>Ardaman: Rob Werner, John Cameron, Tony Deatherage<br>FDEP: John Coates, Sam Zamani<br>CDM: Dean Carter, Mike Crux, Jean Wilson, George Curry, Mick Edgar (via telecom)<br>Comanco: Paul Moore<br>Compass: Tim Morrow, Jeremy Giles<br>HRK: Art Roth |                                                                                                        |                                                                            |                                                                                           |

**COPY TO:** FDEP: Phil Coram, Sam Zamani, John Coates  
 Ardaman: Nadim Fuleihan, Rob Werner, Tom Leto, John Cameron, Tony Deatherage  
 CDM: Steve Solters, Dean Carter, Michael Edgar, Michael Cruz, Dick Slovarp  
 Comanco: Tom Topp, Paul Moore  
 Compass: Tim Morrow, Jeremy Giles, Tom McSweeney  
 HRK: Art Roth, Ivan Nance

***Next Meeting is Scheduled for Wednesday, December 7, 2006***  
***Construction/Engineering Meeting at 9:00 am***

**1.0 REVIEW MINUTES OF PREVIOUS MEETING**

No corrections were noted.

**2.0 SAFETY**

No safety incidents were reported.

**3.0 SUMMARY OF WORK PERFORMED**

**Comanco:**

- Continued Phase II stormwater ditch grading and seepage collection drain installation. Drain has been completed from station 151+20 to 116+00 as of 11/29/06
- Also continued Phase II ditch liner installation. Installed about 17,857 sf this week (295,501 sf total as of 11/28/06).
- Equipment: 3 excavators, 2 dozers, 2 plate compactors, 2 3-inch trash pumps, 1 loader, 1 track crawler dump, 1 mini-excavator, 2 pick-up trucks, 1 crew van, 2 Q/C trailers, 4 generators, 1 4-inch vacuum pump, 1 pipe fusion machine - 26 personnel.

**Compass:**

- Well Water usage - 20,000 gallons used for dust control since last report.
- Continued washout repairs on the Phase I slopes, and repairs at the NGS-S Cap.
- Water seeded and sodded areas.
- Started cleaning gypsum from the Phase I stormwater ditches (started at the NGS-N west ditch).
- Equipment: 6 dump trucks, 2 water trucks, 2 D6 dozers, 1 D8 dozer, 2 excavators, 2 motor graders, 4 club carts - 7 personnel. Most equipment presently stored on site will be needed later when the Gulfstream II borrow area is available for hauling soil fill.

**CDM**

- Continued dewatering and stockpiling gypsum sediment/sludge in the SCP-S Cap area.
- Completed re-excavating the relief ditch between the SCP north and south compartments.

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- Graded slopes on the overflow ditch between the SCP-N southeast corner and the return water ditch.
- Performed road repairs on toe roads south of the NGS-S and OGS-S, the south gyp stack access ramp, and roads east and west on the SCP.
- Dredge America started 12-inch pipe delivery.
- Equipment: 2 dump trucks, 1 dozer, 2 excavators - 3 personnel.

#### 4.0 PROJECTED WORK FOR NEXT WEEK

##### Comanco:

- Continue work in the Phase II Slope Closure stormwater ditch - dewatering, fine grading and compaction, seepage collection drain installation and liner installation.
- If Comanco elects to use a dewatering ditch to facilitate drain installation, Ardaman/DEP should be notified prior to implementation, and all water collected in the dewatering ditch shall be routed to the existing seepage ditch.

##### Compass:

- Continue repairing washouts - start washout repairs at the NGS-S south and east slopes..
- Start hauling soil fill from the Larkin Nurseries borrow site to the NGS-N west ditch.

##### CDM

- Continue site preparation activities in the SCP-S area.
- Dredge America will start installation of the dredge discharge pipe.
- Inquip will start mobilization for the slurry wall installation at the NCP.

#### 5.0 SURVEY NOTES

- Edgemon continued as-built surveys for the Phase II Slope Closure stormwater ditch drain installation and liner subgrade as the work progressed by Comanco. Approval by Ardaman is based on field notes signed by Edgemon's surveyor and provided by Comanco/CDM. A drawing of as-built surveys was updated by Edgemon on 11/29/06 - a hard copy was provided by CDM to Ardaman at the meeting.
- CDM provided a pdf file to Ardaman by email on 10/10/06 of as-built survey data for the Phase I stormwater ditch inboard anchor trench liner extensions. Liner extensions may or may not still be short in some areas, depending on the steepness of the slope when the liner extension is actually installed on a smooth and compacted subgrade. In order to assure compliance, the elevation of the liner extension should be re-surveyed after final installation.
- CDM/Edgemon re-surveyed the invert elevation profile of the relief ditch between the SCP-S and SCP-N, which ranged from 9.0' at the east end to 6.5' at the west end - a hard copy was provided by CDM to Ardaman at the meeting.
- Dredge America performed a pre-dredge survey of the SCP-N; CDM is reviewing the survey, and was requested to copy FDEP and Ardaman.
- CDM requested Ardaman to provide an electronic copy of the NCP slurry wall as-built survey.

#### 6.0 PROJECT SCHEDULE

- No work days were lost to rain this reporting period.
- CDM updated the project schedule and distributed by email on 11/28/06. The schedule was distributed and discussed at the meeting. Dredging related activities will be updated at a preconstruction meeting with Dredge America later in the day. CDM indicated that the SE-1 spray system will be temporarily shut down for NGS-N liner sediment transfer to the NCP.
- Regarding resumption of soil cover, hauling from Larkin Nurseries will start on 12/1/06.
- Compass indicated that the final application for the Gulfstream II borrow pit was being submitted on the day of the meeting by Gulfstream to Manatee County, and by Compass to SWFWMD. Based on 5-day approval by SWFWMD, hauling may start from Gulfstream II on 12/11/06.
- Weekend work schedule: Comanco on Saturday.

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## 7.0 SHOP DRAWINGS and SUBMITTALS

All shop drawings and submittals should be submitted to Rob Werner (Ardaman) for approval, with transmittals only copied to John Cameron (Ardaman) and Steve Solters (CDM).

- Regarding approval status of 30 rolls of Agru America 80-mil textured liner recently received by Comanco: all factory quality control test reports have been received by Ardaman from Agru America on behalf of Comanco. Ten rolls, produced during the production run made for the SCP-PWS liner, have been previously tested for conformance and conditionally approved by Ardaman. Conformance testing by Ardaman is in progress on samples of 12 additional rolls which were provided by Comanco on 11/22/06.
- On Tuesday, 11/10/06, CDM/Compass, Ardaman and FDEP obtained soil samples from three stockpile locations at the Larkin Nurseries borrow site on U.S. 41. Ardaman reported by email on 11/21/06 that the proposed borrow materials can generally meet geotechnical specification requirements. FDEP reported by email on 11/29/06 that the proposed borrow materials, based on environmental screening information submitted by CDM, are suitable for soil cover.

## 8.0 TECHNICAL ITEMS/CLARIFICATIONS AND QUALITY ASSURANCE

Updated drawing sets, dated 9/28/05, were distributed at the 9/29/05 meeting for the NGS-S Cap and NGS-N Relief Ditch and the Phase I Slope Closure. Revised Phase I Slope Closure drawing Nos. C-2, C-5, C-6, D-6, D-9, D-10, D-11), dated 2/15/06 (various revision nos.) were distributed at the 2/16/06 construction meeting to reflect changes related to lowering the OGS south stormwater ditch seepage collection drain. Electronic (ACAD) are available for download from Ardaman's ftp web site. Current drawings, dated 12/16/05, were distributed at the 12/16/05 meeting for Slope Cover Construction - OGS Ponds. Current drawings (including all detail drawings for structures, drains, etc.), dated 12/22/05 (various revision nos.), for the Phase II Slope Closure were delivered to CDM at the site on 12/23/05. Current drawings (including all detail drawings for structures, drains, etc.), dated 1/11/06 (various revision nos.), for the SCP-South Compartment Closure were distributed on 1/12/06, along with CD's containing ACAD files for all current for the SCP-South and Phase II slope Closure drawings. Revised SCP-South Compartment Closure Drawing No. D-6, dated 2/15/06 (Rev. 1), was distributed at the 2/16/06 construction meeting to reflect changes related to the lowered the OGS south seepage collection drain - an electronic version (ACAD) was emailed to CDM and Moretrench on 2/28/06. Regarding finish grades for the SCP-S Process Water Sump, a drawing was provided by Ardaman at the 7/6/06 construction meeting (and attached to meeting minutes) indicating optional design grades for the pond bottom area, which were adopted by CDM/Compass. Drawing Nos. C-1, C-3, C-4, D-1 and L-1 will be updated for the record to indicate the revised grading plan.

Regarding specifications for the OGS Slopes, Top Cap Areas and NGS-N Relief Ditch, pertinent NGS-S Reservoir, Phase II OGS Compartment Closure and ITN specification documents shall be used. Pertinent specification sections from the Phase II and ITN sources, along with specifications for HDPE panel drains and concrete erosion control mats, were issued in a preliminary specification document (Sections 24, 25, 26, 27, 28, 29 and 30, all revision 0, dated 7/6/05) on 7/7/05. Additional supplemental specifications for "Woven Geotextile" and "General Earthwork Using Soil" (Sections 31 and 32, both revision 1, dated 1/4/06) were distributed at the meeting on 1/5/06.

- Preliminary drawings and CD's were distributed at the 9/15/05 meeting for the NGS-S Soil Slope Cover Construction, C-1 through C-5 for Contractor's use in estimating take-off quantities.
- Preliminary drawings for the NCP capacity upgrade project were revised; CAD files were emailed to CDM on 7/19/06 and 4 sets of hard copies were distributed at the 7/20/06 construction meeting. Preliminary technical specifications (revision P1) were emailed to CDM on 7/14/06.
- Drawings were distributed by Ardaman at the 7/20/06 meeting for additional panel drains required in the following areas: OGS Slope Pond, OGS-N Cap, OGS west and south ditches, and the NGS-S east ditch. Copies of these figures were attached to the electronic version of the meeting minutes.
- Drawings were distributed by Ardaman at the 10/5/06 meeting to add 4-inch bleeder orifices at structure #7 in the OGS Slope Pond.

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- Preliminary drawings were distributed at the 10/19/06 meeting for the SCP-S and SCP-N as follows: C-1, C-2, C-3, C-4 and L-1, all revision 0, dated 10/20/06. Electronic versions of Dwg. Nos. C-1 and L-1 were provided via email on 10/20/06. Drawing C-1, revision 1, dated 10/31/06, was distributed at the meeting (hard copies and CD's).
- Final drawing sets for the SCP phase 2 closure, dated 11/8/08, including all detail and liner drawings, were issued for construction and distributed at the 11/16/06 meeting (hard copies and CD's). Additional signed large Drawings will be distributed next week.

### Quality Control Activities

- Ardaman had 3 technicians on site this reporting period.
- Phase I Slope Closure in-place gypsum/soil density tests - no change - 945 passing, none failing, none pending.
- Phase II Slope Closure in-place gypsum/soil density tests - 201 passing, none failing, 2 pending.
- OGS-S slope cover in-place soil fill density tests - no change - 59 passing, none failing, none pending.
- Phase II Slope Closure 80-mil stormwater ditch liner seam destructive testing (DT's) - 35 marked, 33 passing, none failing, 2 pending. A summary of DT testing was updated on 11/29/06 (revision 4) and was distributed at the meeting.
- Phase II stormwater ditch liner anchor trench density tests - 47 passing, none failing, none pending.

### Miscellaneous

- Rainfall: CDM reported 0.01 inches from 11/21/06 through 11/28/06.
- Regarding extrusion welding problems on GSE liner, Comanco is awaiting on a report from GSE regarding findings subsequent to David Legget's visit on 10/26/06.
- CDM and Ardaman continue to monitor seepage flow at the Granddaddy Boil location.
- Ardaman provided an "Erosion Damage Characterization" plan and tabulation for the previously seeded areas of the Phase II amended gypsum slopes (i.e., the south slope and east slope south of the former east slope ramp) at the 11/9/06 construction meeting. This issue was discussed at the meeting, as well as restoration of the 1:1 slope on both the Phase I and Phase II stacks. Ardaman indicated that clarification would be provided by email.
- Cleaning of gypsum from the lined NGS-N west stormwater ditch, which was started by CDM/Compass/Comanco on 11/29/06, was observed during the site tour. The cleaning procedure was discussed at the meeting, and CDM/Compass agreed to suspend use of the gator for gypsum removal from the ditches, and to wash clean the areas where the gator trafficked for liner inspection for damage. CDM/Compass agreed to manually shovel gypsum into a backhoe bucket instead and relay the material out of the ditch in this manner.

### Acceptances

- On 11/22/06, subgrade for liner installation, Phase II Slope Cover stormwater ditch, from station 122+00 to 120+50.
- On 11/29/06, subgrade for liner installation, Phase II Slope Cover stormwater ditch, from station 120+50 to 119+00.
- On 11/29/06, CDM, Compass and Ardaman inspected grassing at the NGS-S and OGS - acceptance of the bottom areas only was emailed by Ardaman to CDM on 11/29/06.
- At CDM's request, Comanco, CDM and Ardaman will inspect liner installation at the Phase II east stormwater ditch, after the construction meeting.

### 9.0 COMMENTS by PROGRAM MANAGER

- A proposal for gravel erosion protection, yet to be installed along the inboard slope of the access road at the toe of the OGS-S slope cover, was discussed at the 8/10/06 Program Manager's meeting. CDM is awaiting feedback from FDEP - see 10.0 Comments by FDEP for more..
- Change Order SP644-014 (Phase I/II Slopes/Caps/NGS Relief Ditch Soil Cover, Phase II Gyp/Earthwork, and Additional Panel Drains) as revised by FDEP on 11/27/06, is being reviewed by CDM for signature.
- A tabulation for grassing work to date was received by CDM from Compass, and forwarded to FDEP on 10/2/06. The tabulation has been updated by Compass to include acres; CDM will forward to FDEP and Ardaman.
- CDM indicated that a contract has been executed with Dredge America; a contract with Inquip is awaiting signatures.

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- Ardaman and FDEP were requested to attend a pre-construction meeting with CDM and Dredge America after the construction meeting.

#### 10.0 COMMENTS by FDEP

- Responding to Compass' request for action regarding a change order for a stone filter along the toe of cover soil in the OGS-S, FDEP indicated that resolution of this issue is of lesser priority than other pending change orders/amendments, particularly since the apparent value of the stone exceeds the current retainage.

#### 11.0 COMMENTS by HRK

- HRK indicated that scrap is presently being removed from lay-down and other areas..