

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 06-110A Meeting Date: <u>12/14/06</u> Report No: <u>91</u>	Page 1 of 5 Report Date: <u>12/20/06</u>
Project Name:	CLOSURE CONSTRUCTION - OGS SLOPES, TOP CAPS & RELIEF DITCH, SCP-S AND PHASE II - NGS SLOPES		Project Address: 13300 U.S. Highway 41 North Palmetto, Florida 34221 Manatee County
ATTENDEES: Ardaman: Nadim Fuleihan, Rob Werner, John Cameron, Tony Deatherage FDEP: John Coates, Sam Zamani CDM: Dean Carter, Mike Cruz, Jean Wilson, George Curry, Steve Solters, Mick Edgar Comanco: Compass: Tim Morrow, Jeremy Giles Moretrench: Mike Panny, Ronnie Branch, Ralph Remmert HRK: Art Roth, Ivan Nance			

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
 Moretrench: Mike Panny, Ralph Remmert
 HRK: Art Roth, Ivan Nance

Next Meeting is Scheduled for Wednesday, December 21, 2006
Construction/Engineering Meeting at 9:00 am

1.0 REVIEW MINUTES OF PREVIOUS MEETING

- No corrections were noted.

2.0 SAFETY

- Regarding the Comanco technician who cut his hand on 12/2/06, an accident report was received from Comanco by CDM and forwarded to FDEP.

3.0 SUMMARY OF WORK PERFORMED

Comanco:

- Comanco was not represented at the meeting - a written report was submitted by email prior to the meeting.
- Continued Phase II stormwater ditch grading and seepage collection drain installation. Drain has been completed from station 151+20 to 104+50 as of 12/13/06
- Also continued Phase II ditch liner installation. Installed about 30,780 sf this week (376,321 sf total as of 12/12/06).
- Installed panel drains in OGS Slope Pond and OGS-N Cap.
- Started installation of liner flap extensions in Phase I stormwater ditches.
- Started tracking in loose gypsum at anchor trenches below the 1:1 cut in the Phase I and II stormwater ditches.
- Equipment: 3 excavators, 2 dozers, 2 plate compactors, 2 3-inch trash pumps, 1 loader, 1 track crawler dump, 2 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. Added 1 mini-excavator since last report

Compass:

- Well Water usage - 210,000 gallons used for dust control since last report.
- Continued washout repairs on the OGS west slope.
- Watered seeded and sodded areas; mowed the OGS west slope.

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- Continued gypsum removal and soil cover (with soil fill from Larkin Nurseries) in the Phase I stormwater ditches. Reported 9,464 cy of soil cover installed as of 12/13/06 (by truck load count estimated at 13 cy compacted per truck load).
- Equipment: 6 dump trucks, 2 water trucks, 2 D6 dozers, 1 D8 dozer, 2 excavators, 2 motor graders, 3 club carts - 9 personnel. Demobilized 1 club cart and added 2 operators since last report. Most equipment presently stored on site will be needed later when the Gulfstream II borrow area is available for hauling soil fill.

Moretrench

- A written report was not submitted.
- Remobilized on 12/11/06.
- Started regrading the Phase II gypsum slopes, and the Phase II stormwater pond.
- Equipment: 1 D6 dozer, 1 compactor, 1 water truck, 1 gradall - 3 personnel

CDM

- Continued dewatering and stockpiling gypsum sediment/sludge in the SCP-S Cap area.
- Supported gypsum removal from the Phase I stormwater ditches.
- Started NGS-N washdown. Installed 12" HDPE pipeline from the NGS-N Pond to the NCP to support washdown.
- Dredge America started dredging sludge from the SCP-N on 12/13/06.
- Equipment: 2 dump trucks, 1 dozer, 2 excavators, 1 4-inch diaphragm pump - 6 personnel. Added 4 laborers this report.

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.
- Continue installation of liner flap extensions in Phase I stormwater ditches.
- Continue tracking in loose gypsum at anchor trenches below the 1:1 cut in the Phase I and II stormwater ditches.

Compass:

- Continue repairing washouts and watering grassed areas.
- Continue gypsum removal and hauling and placing soil fill in the Phase I stormwater ditches.

Moretrench

- Continue regrading the Phase II gypsum slopes and stormwater pond.

CDM

- Continue site preparation activities in the SCP-S area.
- Continue to support gypsum removal from the Phase I stormwater ditches.
- Continue to dredge sludge from the SCP-N (Dredge America).

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

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surveyor and provided by Comanco/CDM. A drawing of as-built surveys was last updated by Edgemon on 12/13/06 - a hard copy was provided to Ardaman at the meeting.

- Edgemon started as-built surveys of the liner flap extensions at the Phase I stormwater ditch. X,Y,Z coordinates were provided by CDM on 12/12/06 and 12/14/06 for flaps extended as of that date.
- Dredge America had previously performed a pre-dredge survey of the top of sludge in the SCP-N. CDM reported that an additional survey of the bottom of sludge has been completed, indicating a total of 186,000 cy to be dredged. Dredge America has provided a pdf file of the survey to CDM; Ardaman requested an ACAD file.

6.0 PROJECT SCHEDULE

- Compass and Comanco lost ½ work day to rain this reporting period.
- CDM updated the project schedule and distributed by email on 12/12/06. The schedule was updated to reflect current progress and forecasts.
- It was commented that some NCP slurry wall activities, such as the Emergency Overflow Box and Berm Restoration may have to be completed sooner to support the SCP-N dredging operation in a timely manner.
- Compass indicated that approval has not yet been received from SWFWMD or Manatee County on the Gulfstream II borrow pit application; earliest start of hauling fill from Gulfstream II was re-scheduled to 1/2/07.
- Inquip mobilization is still scheduled to start 1/2/07.
- Weekend work schedule: Compass (soil cover grading only, no hauling) and Moretrench on Saturday.

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 Agru America 80-mil textured liner for the Phase I stormwater ditches - including previous approvals, all rolls (35 of 35) have been conditionally approved for installation. A summary of conformance testing was updated on 12/5/06 (revision 5) and was distributed at the meeting.
- Shop drawings were submitted to Ardaman for approval by CDM via email on 11/30/06 for various concrete uniform section mats (Phase I structures 5, 8 & 10 and Phase II structure 4), which were approved by email on 12/11/06, except structure 8. CDM submitted additional information on 12/12/06.

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

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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.
- 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 were distributed at the meeting.
- ***Responding to CDM's request for clarification regarding location of the Phase II Slope Closure Inlet Structure No. 1, Ardaman provided hard copies and a CD for Phase II Slope Closure drawing revisions as follows: C-1, revision 2, and D-2, revision 1, both dated 12/13/06.***

Quality Control Activities

- Ardaman had 6 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 - 234 passing, none failing, none 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) - 43 marked, 40 passing, none failing, 3 pending. A summary of DT testing was updated on 12/11/06 (revision 6) and was distributed at the meeting.
- Phase II stormwater ditch liner anchor trench density tests - 52 passing, none failing, none pending.

Miscellaneous

- Rainfall: CDM reported 0.00 inches from 12/5/06 through 12/11/06.
- 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.
- Regarding acid brick noted in last report, FDEP requested that ECT/HRK provide email confirmation of readings taken which indicated that the brick was not contaminated
- CDM requested Ardaman by email on 12/4/06, for clarification regarding location of the Phase II Inlet Structure No. 1 - see 8.0 Technical Items/Clarifications for new drawings.
- As reported last meeting, existing soil cover thickness was measured by Ardaman at several locations along the perimeter roads around the OGS-N and OGS-S Caps on 12/4/06. It was requested that the soil cover be restored to at least 22" at this time.

Acceptances

- On 12/8/06, subgrade for liner installation, Phase II Slope Cover stormwater ditch, from station 119+00 to 108+00.
- On 12/14/06, subgrade for liner installation, Phase II Slope Cover stormwater ditch, from station 118+00 to 104+50.

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- On 11/30/06 Comanco, CDM and Ardaman inspected the liner installation at the Phase II east stormwater ditch, from approximately station 152+20 north to the northeast corner (panels 98 through 245). Four repair patches were noted - repairs have not yet been done.

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, and requested priority for this issue. As indicated in 8.0 Project Schedule, it is anticipated that work will resume in the OGS-S about 1/2/07.
- A tabulation for grassing work to date was received by CDM from Compass, and forwarded to FDEP on 10/2/06. CDM provided an update with acreage information to Ardaman by email on 12/13/06. Additional information is necessary, for uncompleted activities as well as those being invoiced, in order to utilize this table to substantiate invoice quantities.
- CDM indicated that a contract has been signed with Inquip.
- A change order request is in progress by CDM for changes to the SCP (including dredging) and the NCP slurry wall. Comanco provided liner quantities to CDM and Ardaman by email on 12/4/06.
- Compass/CDM provided FDEP with 1 copy each of the Gulfstream II final applications submitted to SWFWMD and Manatee County.

10.0 COMMENTS by FDEP

- Change Order SP644-014 (Phase I/II Slopes/Caps/NGS Relief Ditch Soil Cover, Phase II Gyp/Earthwork, and Additional Panel Drains) was signed by FDEP on 12/11/06, and distributed by email on 12/12/06.
- Change Order SP644-015 (OGS-S drain, Phase II slope cavities, and NGS-S liner repair) was sent by email on 12/15/06 from FDEP to CDM for review and signature. .

11.0 COMMENTS by HRK

- No comments.