

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 05-110A Meeting Date: <u>8/31/06</u> Report No: <u>76</u> Report Date: <u>9/6/06</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: John Cameron, Tony Deatherage FDEP: CDM: Mike Cruz, Jean Wilson Moretrench: Ralph Remmert Comanco: Tom Topp Compass: Tim Morrow, Jeremy Giles		

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
 Moretrench: Al Schuman, Steve Voytko, Mike Panny, Nick Haddon, Ralph Remmert
 Comanco: Tom Topp, Paul Moore
 Compass: Tim Morrow, Jeremy Giles, Tom McSweeney
 HRK: Art Roth, Ivan Nance

Next Meeting is Scheduled for Thursday, September 7, 2006
Site Tour at 8:00 am followed by
Construction/Engineering & CDM Operations Meetings

1.0 REVIEW MINUTES OF PREVIOUS MEETING

3.0 Summary of Work Performed by CDM - it was noted that the 200 weep tubes were not used for the SCP-S fabriform overflow - they will be used with other fabriform structures on the project.

2.0 SAFETY

CDM forward an accident report to FDEP by email on 8/25/06 relative to damage to a FPL power pole reported last meeting.

3.0 SUMMARY OF WORK PERFORMED

Moretrench:

- Completed demobilizing equipment.

Comanco:

- Completed liner detail work in the SCP-S Pond Water Sump, including punch list items, on 8/29/06; also completed installation of the uniform section mat (Fabriform) on the overflow spillway on 8/30/06.
- Completed modifications to the NGS-N spray evaporation system.
- Began liner repairs in the NGS-S on 8/28/06.
- Equipment: 1 excavator, 2 3-inch pumps, 2 loaders, 1 track crawler dump, 1 4x4 Honda 350 w/trailer, 3 pick-up trucks, 1 crew bus, 2 QC trailers, 6 generators - 29 personnel.

Compass:

- Well Water usage - none used since last report.
- Started mowing OGS/Cap areas (second mowing).
- Equipment: 2 dump trucks, 1 water truck, 2 D6 dozers, 1 excavator, 1 motor grader - 10 personnel.

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CDM

- Resumed dewatering and dozer-pushing/stockpiling sediments in the SCP-S Cap.
- Installed temporary berms and drainage pipes on the south edge of the OGS south earthen dike road to reduce future erosion-related maintenance requirements.
- Received the following from Lane Piping for Phase II Slope Closure: 10 each 12x6 SDR 17 reducing wyes, 1each 24x8 SDR 17 reducing wye, 1each 8-inch SS butterfly valve, 1 each 8-inch SDR 11 BF flange adapter, and 1 each 8-inch SS 316L slip-on plate flange.

4.0 PROJECTED WORK FOR NEXT WEEK

Comanco:

- Continue anchor trench compaction in the SCP-S Pond Water Sump.
- Continue liner detail work and anchor trench compaction in the Phase II Slope Closure stormwater ditch.
- Continue work to extend the Phase I Slope Closure stormwater ditch liner at the inboard anchor trench, where it is below design elevation.
- Continue liner repairs in the NGS-S.

Compass:

- Continue mowing OGS/Cap areas (second mowing).

CDM

- Continue dewatering in the SCP-S Cap area.
- Perform airboat dredging test in the SCP-N.

5.0 SURVEY NOTES

- Compass/Edgemon completed as-built survey updates for the SCP-S Process Water Sump liner subgrade on 8/18/06. Ardaman requested a composite survey in ACAD format.
- Moretrench/Edgemon provided as-built surveys of the OGS north ditch rip-rap depressions on 7/21/06, 7/24/06, 7/26/06 and 8/3/06; Moretrench was requested to incorporate the as-built data into the composite as-built for the Phase I Slope Closure stormwater ditches - Ardaman requested an ACAD version for the composite as-built.
- In response to CDM/Compass' intent to amend and grass the Phase II Slope Closure north slope and east slope (north of the east ramp), it was recommended by Ardaman at the 8/10/06 construction meeting that the slope below the 1:1 cut should be surveyed to determine if excess material, which would need to be spread on the slope above the 1:1 cut, exists prior to amending and grassing. Edgemon completed the survey on 8/14/06 and x,y,z data was forwarded to Ardaman last week for stations 121+00 through 107+00 (every 200'). Ardaman hand delivered cross-sections to CDM on 8/29/06, indicating an average surplus of 2.0 cy/lf. Additional sets of cross-sections were distributed at the meeting.
- CDM/Comanco were requested at the 8/17/06 construction meeting to provide an as-built of the Phase II Slope Closure stormwater ditch liner inboard anchor trench, which was not excavated at the time of the subgrade survey. The survey was performed on 8/28/06 - CDM is awaiting results.
- CDM was requested at the 8/24/06 construction meeting to survey water elevations in the seepage ditch and adjacent Buckeye Road ditch near the southwest corner of the SCP-S. The survey was performed on 8/28/06 - CDM is awaiting results.

6.0 PROJECT SCHEDULE

- One workday was lost to weather by Compass this reporting period.
- It was noted that liner detail work was completed in the SCP-S PWS on 8/29/06, and the fabriform overflow spillway on 8/30/06. The only remaining work is completion of anchor trench compaction and testing on the east side.

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- Regarding resumption of the Phase II Slope Closure seepage collection drain installation, Comanco indicated that they have not yet been awarded a contract by CDM to do this work.
- Regarding permitting status of the Gulfstream II borrow pit, Compass indicated at the 8/10/06 construction meeting that the presently scheduled date of 9/29/06 is uncertain. Compass indicated that an updated status has been distributed by email to CDM.
- CDM will update and distribute the project schedule by email on 9/5/06.
- Weekend work schedule: no work is planned for the 3-day Labor Day weekend.

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).

- Comanco submitted liner panel placement drawings on 7/28/06 for the Phase II Slope Closure 80-mil stormwater ditch and 60-mil stormwater pond. The 80-mil stormwater ditch was approved by Ardaman on 7/31/06, subject to minor field adjustments. The 60-mil stormwater pond requires clarification regarding cross seams.

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. CDM was requested to provide a proposal for the extra work. Copies of these figures were attached to the electronic version of the meeting minutes.

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Quality Control Activities

- Ardaman had 5 technicians on site this reporting period.
- Phase I Slope Closure in-place gypsum/soil density tests - no change - 945 tests passing, none failing, none pending.
- Phase II Slope Closure in-place gypsum/soil density tests - no change - 121 tests passing, none failing, none pending.
- OGS-S slope cover in-place soil fill density tests - no change - 59 passing, none failing, none pending.
- SCP-S Process Water Sump liner seam destructive testing (DT's) - 54 marked, 54 passing, none failing, none pending. A summary of DT testing dated 8/31/06, revision 6, was distributed at the meeting. DT testing is complete for this portion of the project.
- Phase II Slope Closure 80-mil stormwater ditch liner seam destructive testing (DT's) - no change - 11 marked, 11 passing, none pending. A summary of DT testing dated 8/24/06, revision 1, was distributed at the 8/24/06 meeting.
- Phase II stormwater ditch liner anchor trench density tests - no change - 3 passing, 1 failing, none pending.
- SCP-S Process Water Sump liner anchor trench density tests - no change - 9 passing, 1 failing, none pending.

Miscellaneous

- Rainfall: CDM reported 0.78 inches from 8/23/06 through 8/28/06.
- Several emails were exchanged between CDM/Compass and Ardaman regarding sod and grassing requirements for supplemental fertilization, etc. Compass requested feedback to their latest email sent on 8/30/06.

Acceptances

- A walk-through inspection of the SCP-S PWS liner work was conducted on 8/29/06 by Ardaman, CDM and Comanco. Punch list items have been completed except completion of anchor trench compaction on the east side.

9.0 COMMENTS by PROGRAM MANAGER

- Documentation provided by Moretrench in a report by their consultant (JBM&R) pertaining to their change order claim to CDM related to Phase I closure gypsum quantity adjustments, stormwater conveyance structures and Phase I seepage collection drain were discussed at a meeting on 8/9/06 with FDEP and Ardaman. CDM indicated that they provided feedback to Moretrench on 8/23/06; the subject change order requests have not yet been submitted to FDEP for review.
- A proposal for the 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 without resolution.
- CDM is waiting on Compass for a proposal to install additional panel drains, requested by Ardaman at the 7/20/06 construction meeting, in the OGS Slope Pond, OGS-N Cap, OGS west and south ditches, and the NGS-S east ditch.

10.0 COMMENTS by FDEP

FDEP was not represented at the meeting.