

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 06-110A Meeting Date: <u>1/11/07</u> Report No: <u>95</u>	Page 1 of 5 Report Date: <u>1/16/07</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, Jean Wilson, Steve Solters Comanco: Paul Moore Compass: Tim Morrow, Jeremy Giles, Tom McSweeney Moretrench: Ralph Remmert, Mike Panny, Ronnie Branch 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 Thursday, January 18, 2007
Construction/Engineering Meeting at 9:00 am

1.0 REVIEW MINUTES OF PREVIOUS MEETING

- No corrections were reported.

2.0 SAFETY

- No safety incidents were reported.

3.0 SUMMARY OF WORK PERFORMED

Comanco:

- Continued installation Phase II stormwater ditch drain clean-outs, and inlet structure numbers 1 and 2 and outlet pipes. De-mobilized drain installation equipment.
- Continued Phase II ditch 80-mil liner detail work. No liner was deployed this week (411,157 sf total as of 1/3/07). Eight (8) rolls of 80-mil liner were counted by Ardaman still in inventory on the day of the meeting. Received additional welding rod from GSE for repairs on GSE liner.
- Started Phase II stormwater pond 60-mil liner installation - 42,944 sf total this reporting period.
- Equipment: 1 excavator, 1 loader, 1 track crawler dump, 2 pick-up trucks, 1 Q/C trailer, 4 generators - 11 personnel.

Compass:

- Well Water usage - 120,000 gallons used for dust control since last report.
- Continued washout repairs on the OGS west slope.
- Watered seeded and sodded areas.
- Resumed hauling and continued to rough grade soil cover in the Phase I stormwater ditches - 21,554 cy (compacted cy, by truck load count estimate) was hauled as of 1/8/07.
- Equipment: 6 dump trucks, 2 water trucks, 2 D6 dozers, 1 D8 dozer, 2 excavators, 2 motor graders, 3 club carts - 9 personnel. Some equipment (e.g., dump trucks) is not currently being used.

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Moretrench

- Completed placing and grading fill at the Phase II stormwater pond perimeter dike.
- Started grading gypsum slopes on the NGS northeast corner.
- Equipment: 1 dozer, 1 compactor - 3 personnel.

CDM

- Started gypsum sediment removal from the Phase II stormwater ditches.
- Continued NGS-N wash-down and sludge removal.
- Hauled Basin 2 soil for the NGS-N stormwater pond and dike; continued grading the stormwater pond.
- Equipment: 2 dump trucks, 2 dozers, 2 excavators, 1 4-inch diaphragm pump - 9 personnel.
- Dredge America resumed dredging the SCP-N.
- Inquip started mobilizing for the NCP slurry wall extension.

4.0 PROJECTED WORK FOR NEXT WEEK

Comanco:

- Continue work in the Phase II Slope Closure stormwater ditch - drain ancillary items and 80-mil liner.
- Continue 60-mil liner installation at the Phase II north stormwater pond.

Compass:

- Continue repairing washouts and watering grassed areas.
- Continue hauling, placing and compacting soil fill in the Phase I stormwater ditches. Compass indicated that they would stop hauling from Larkin Nursery when soil cover is complete in the OGS west ditch up to structure no. 9.
- Start silt fencing at Gulfstream II.

Moretrench

- Continue grading fill at the Phase II stormwater pond perimeter dike.
- Continue grading gypsum on the NGS north slope.

CDM

- Start mud-waving along the northern edge of the SCP-S cap.
- Continue gypsum sediment removal from the Phase II stormwater ditches.
- Continue NGS-N washdown and sludge removal.
- Continue grading the NGS-N stormwater pond.
- Continue dredging the SCP-N; start pushing sludge build-up from the eastern side of the NCP.
- Start repairing erosion on the NGS-S east slope.
- A pre-construction meeting was scheduled with Inquip after the regular meeting.

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 composite drawing of as-built surveys was last updated by Edgemon on 12/20/06 - a hard copy was provided to Ardaman on 12/28/06.
- Edgemon also continued as-built surveys for the Phase II stormwater pond and liner subgrade as the work progresses by Comanco. Approval by Ardaman is based on field notes signed by Edgemon's surveyor and provided by Comanco/CDM. A composite drawing of as-built surveys was last updated by Edgemon on 1/4/07.

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- CDM/Dredge America provided an ACAD file of the SCP-N latest sludge survey to Ardaman via email on 12/18/06; Ardaman indicated via email to CDM on 12/22/06 that a true 3-D CAD file is needed - Ardaman received the 3D file since last report.
- CDM provided a copy of Edgemon's 12/20/06 as-built survey of the OGS south dike to Ardaman on 1/4/07. CDM requested on 1/11/07 that Ardaman review survey data on the crest road and south slope.

6.0 PROJECT SCHEDULE

- No workdays were lost to rain this reporting period.
- The project schedule was updated and distributed via email by CDM on 1/10/07, and hard copies were distributed at the meeting. However, in that there was insufficient time for parties to review the schedule prior to the meeting, it was requested that schedule discussion be deferred to the 1/18/07 construction meeting.
- Compass is still awaiting approval on permits for the Gulfstream II borrow area, now anticipated in about 3 weeks. However, a temporary use permit has been received from Manatee County, and it is planned to start site prep next week - earliest date for hauling remains at about 1/22/07 (at reduced rates from dewatering trench excavations). Compass is scheduled to meet with Gulfstream on 1/11/07 to discuss site preparation.
- Weekend work schedule: Moretrench plans to work 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).

- Concrete mixes were re-submitted to Ardaman for approval by CDM via email on 1/4/07, for the NCP weir (Rinker mix no. 1334536 for 4500 psi #89 riv gravel pump) and for flowable fill (Rinker mix no. 1035162 flowable fill). The mixes were approved as submitted. .

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.

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- 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. (CDM will complete this work which was included in the scope of the previously executed change order that involved installation of additional panel drains.)
- 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.
- Ardaman provided hard copies and a CD for Phase II Slope Closure drawing revisions on 12/14/06 as follows: C-1, revision 2, and D-2, revision 1, both dated 12/13/06.

Quality Control Activities

- Ardaman had 7 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 - 306 passing, 3 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) - 47 marked, 47 passing, none failing, none pending. A summary of DT testing was last updated on 1/3/07 (revision 8) and was distributed at the 1/4/07 meeting.
- Phase II Slope Closure 60-mil stormwater pond liner seam destructive testing (DT's) - 6 marked, none passing, none failing, none pending.
- Phase II stormwater ditch liner anchor trench density tests - 57 passing, none failing, none pending.
- Phase II stormwater pond liner anchor trench density tests - none passing, none failing, none pending.

Miscellaneous

- Rainfall: CDM reported 0.06 inches from 1/1/07 through 1/2/07.
- Regarding extrusion welding problems on GSE liner, Comanco distributed GSE's 1/5/07 report by email - the report was inconclusive as to the cause of the welding problems. Regarding the outstanding repairs/punch list items for the Phase II east ditch, Comanco did receive additional extrusion welding rod from GSE to complete the repairs.
- CDM and Ardaman continue to monitor seepage flow at the Granddaddy Boil location.
- As reported at the 12/7/06 meeting, existing soil cover thickness was measured by Ardaman and found to be deficient at several locations along the perimeter roads around the OGS-N and OGS-S Caps on 12/4/06. It was requested at the 12/14/06 meeting that the soil cover be restored to at least 22"; Compass indicated that this will be done when full-scale hauling from the Gulfstream II borrow area starts.
- Regarding soil cover placement by Compass in the Phase I stormwater ditch, a "Compass cut liner incident report" was submitted by CDM to FDEP on 1/9/07. However, it was noted at the meeting that Compass is presently only placing cones at the leading edge of soil cover, and that this is not sufficient to provide Ardaman inspectors with adequate visual control to prevent potential liner damage when Compass equipment is regrading areas after initial soil placement. It was agreed that re-work areas would be marked with traffic cones (or equivalent) as necessary to provide adequate visual control to prevent recurrences of liner damage.

Acceptances

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- On 1/8/07, subgrade for liner installation, Phase II north stormwater pond, from station 134+00 to 126+00.

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 and FDEP also discussed last week. CDM indicated that the gravel work should start about 2 weeks after soil cover work is resumed.
- 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 - Ardaman met with CDM and Compass on 1/1/07 to review preliminary boundary maps and quantities prepared by Ardaman.
- 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 - Ardaman's last response to Comanco was by email on 12/22/06. CDM is presently reviewing language and finalizing quantities.

10.0 COMMENTS by FDEP

- Change Order SP644-016 (Phase I outlets/piping modifications, OGS-S liner repairs, and NGS-N west slope regrading) was approved and distributed by email on 1/4/07.
- Change Order SP644-017 is in progress for NGS Relief Ditch gypsum fill quantity adjustments.
- Requested a weekly update on dredge quantities by Dredge America in the SCP-N.

11.0 COMMENTS by HRK

- No comments.