

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 05-110A Meeting Date: <u>6/29/06</u> Report No: <u>67</u> Report Date: <u>7/3/06</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, Tom Leto, Rob Werner, John Cameron, Tony Deatherage FDEP: John Coates CDM: Mick Edgar, Dean Carter, Mike Cruz, Steve Solters, George Curry, Jean Wilson Moretrench: Mike Panny, Paul Davis, Ralph Remmert Comanco: Paul Moore, Tom Topp Compass: Tom McSweeney, 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

Next Meeting is Scheduled for Thursday, July 6, 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

Moretrench:

- Continued work on Phase I Slope Closure - completed backfilling the seepage collection drain with sandy soil cover, finish grading the west stormwater ditch, and installing geocomposite on the gypsum side of the stormwater ditch.
- Continued work on Phase II Slope Closure - grading the north dike of the stormwater pond, and constructing and grading the south perimeter dikes with soil fill provided by CDM; also installed 36" HDPE access manhole at existing NGS-S upstream gate valve.
- Started repairs to existing crack in the dike between the NGS-S Reservoir and NGS-S Cap. (See 8.0 Technical Items - Miscellaneous for more).
- Well Water usage this report - 15,000 gallons since last report..
- Equipment: 5 D-6 dozers, 1 D-8 dozer, 1 compactor, 2 excavators, 1 water wagon, 1 loader, one 6-inch hydraulic pump - 15 personnel.

Comanco:

- Continued liner work on the Phase I Slope Closure stormwater ditch - installed 80-mil liner from station 119+00 to 128+75; 65,080 sf of liner was installed since last report; 518,974 sf total as of 6/27/06. Liner deployment was essentially completed in the Phase I ditch on 6/28/06.
- Received 30 rolls of 80-mil smooth liner for the SCP-S Process Water Sump.
- Equipment: 2 excavators, 1 loader, 1 track crawler dump, 1 4x4 Honda 350 w/trailer, 2 pick-up trucks, 1 QC trailer, 5 generators - 11 to 19 personnel

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Compass:

- Continued irrigation on the OGS-S slopes and watering for dust control; continued mowing inboard slopes in the OGS-S and the OGS cap areas.
- Continued grading the SCP-S Process Water Sump north and east dikes; no fill was hauled since last report; 4,400 cy total (by truck load estimate) as of 6/28/06.
- Continued grading the SCP-S Process Water Sump pond bottom, and hauling and placing fill to cover the sludge; 8,360 cy (by truck load estimate) was hauled since last reported; 27,456 cy total (by truck load estimate) as of 6/28/06.
- Started grassing remedial work (subcontractor Tate Environmental) on the NGS-N Relief Ditch north slope on 6/28/06.
- Well Water usage this report - 85,000 gallons.
- Equipment: 2 dump trucks, 1 water wagon, 2 D-6 dozers, 2 excavators, 1 compactor, 1 Case dozer - 7 operators.

CDM

- Continued receiving soil fill material from L.A. Enterprises for construction of the Phase II Slope Closure perimeter dike - 15,263 cy total as of 6/28/06, and gravel for drain construction - 4,308.68 tons for the Phase II Slope Closure, and 1,000 tons for the SCP-S Closure - cumulative totals reported by CDM as of 6/28/06.
- Also received inlet structure #1 for the SCP-S, and following materials for the Phase II Slope Closure: inlet structure #3, 26 pre-fab drain collector/header pipe connectors, 520' 6" SDR 17 HDPE pipe, and 7,000 polypropylene cable ties.
- Resumed worked on water distribution manifolds for irrigating grass areas.

4.0 PROJECTED WORK FOR NEXT WEEK

Moretrench:

- Continue work on Phase II Slope Closure - constructing and grading the perimeter dikes, fine grading the east and north slopes above the 1:1 break, and start installing the seepage collection drain in the east ditch; also remove riser sections and reinstall top cap sections to lower the top of existing concrete manholes of the existing NGS-S stack drain.

Comanco:

- Continue liner detail work in the Phase I Slope Closure south and west stormwater ditches.
- Continue receiving liner rolls for the SCP-S PWS and the Phase II Slope Closure.
- Resume modifications to the NGS-N spray evaporation system - materials are in hand.

Compass:

- Continue irrigating OGS grassed slopes and watering for dust control, and mowing the OGS and NGS caps.
- Continue grading the SCP-S Process Water Sump dikes and bottom, and placing fill to cover the sludge; also install inlet structure 1.
- Continue grassing remedial work (subcontractor Tate Environmental) on the NGS-N Relief Ditch slopes. (See 8.0 Technical Items - Miscellaneous for more).

5.0 SURVEY NOTES

- Moretrench/Edgemon performed as-built surveys on the OGS west stormwater ditch from station 121+50 to 128+75 since last report - this completes as-built surveys for liner subgrade on the Phase I slope closure stormwater ditches. ***[A final composite as-built drawing needs to be submitted for the record]***
- Compass/Edgemon surveyed the SCP-S Process Water Sump grades on 6/28/06; the south and west borrow dikes will also be surveyed.
- Moretrench indicated that grading work on the Phase II slopes (above the 1:1 liner anchor trench cut) has essentially been completed. Moretrench's planned June take-up by Edgemon can be used to document as-built grades for the

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Phase II north slope above the 1:1 cut and for final quantity determinations along “fattened” areas on the south and east slopes provided all grading work in those areas has been completed by the survey date.

6.0 PROJECT SCHEDULE

- 1 workday was lost to weather by Compass this reporting period.
- The project schedule was updated by CDM and distributed by email on 6/27/06. The updated schedule includes additional activities to track grassing repairs to the NGS-N Relief Ditch and the OGS West and South Slopes. See 10.0 Comments by FDEP for more.
- Weekend work schedule: Moretrench and Compass will work on Saturday. No work is planned on Sunday, Monday or Tuesday (4th of July holiday).

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).

- Split samples of soil fill from L.A. Enterprises were taken by CDM and FDEP on 6/15/06 for testing. CDM will distribute analytical results to FDEP and Ardaman.
- An official submittal/proposal by CDM 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 is forthcoming pending internal review.
- CDM/Compass provided Ardaman on 6/19/06 roll samples and sewn seams of woven geotextile proposed for use as reinforcement on the SCP-S Pond Water Sump pond bottom. The sewn seams were approved at the 6/22/06 construction meeting; conformance testing has been satisfactorily completed by Ardaman on roll samples. In that it is no longer planned to use this material for the SCP-S PWS, it was recommended that the rolls be moved indoors for long-term storage.
- Comanco copied a request from AgruAmerica by email on 6/21/06 to CDM and Ardaman, relative to providing 60-mil and 80-mil HDPE liner for the project. Ardaman responded with comments to CDM/Comanco by email on 6/28/06.

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 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.

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Quality Control Activities

- Ardaman had 5 technicians on site this reporting period.
- Phase 1 slope closure in-place gypsum/soil density tests - 943 tests passing, none failing, none pending.
- Phase 2 slope closure in-place gypsum/soil density tests - 58 tests passing, none failing, none pending.
- SCP south compartment in-place gypsum/soil density tests - 81 tests passing, none failing, none pending.
- OGS-S slope cover in-place soil fill density tests - no change - 59 passing, none failing, none pending.
- Phase I stormwater ditch liner seam destructive testing (DT's) - 53 marked, 42 passing, none failing, none pending. A summary of DT testing (revision 5, dated 6/28/06) was distributed at the meeting.
- Phase I stormwater ditch liner anchor trench density tests - 47 tests passing, 1 failing, none pending.
- SCP-S PWS 80-mil smooth liner conformance testing: an initial summary of testing status report (Table 1a), dated 6/29/06 (revision 0) was distributed at the meeting.
- SCP-S PWS 80-mil textured liner conformance testing: an initial summary of testing status report (Table 1b), dated 6/29/06 (revision 0) was distributed at the meeting.
- Phase II Slope Closure 80-mil textured liner conformance testing: an initial summary of testing status report (Table 2) for 5 additional rolls, dated 6/29/06 (revision 0) was distributed at the meeting.

Miscellaneous

- Rainfall: CDM reported 0.55 inches from 6/21/06 through 6/27/06.
- Regarding status of the Gulfstream II borrow pit, Compass has received and incorporated comments by FDEP and Ardaman, and Gulfstream will submit the application package next week to SWFWMD and to Manatee County Planning and Environmental Departments.
- Regarding consideration of the Port Manatee dredge disposal borrow area, discussion was deferred to the Program Manager's meeting.
- Regarding borrow material for the SCP-S Process Water Sump, Ardaman indicated that material may be borrowed from the SCP-S Cap south and west dikes with the following limitations: the dikes shall not be excavated below a minimum crest elevation of 13.0 feet, NGVD; a minimum crest width of at least 30 feet shall be maintained when borrowing from the inboard section of the dike; and the post-borrow inboard slope shall be no steeper than 2.5:1.
- A sketch was distributed by Ardaman at the meeting for an additional 8" valve that will be required on the OGS west stormwater ditch structure #1 outlet pipe, in order to provide selective runoff water routing.
- Repair of erosion damage and restoration of the grassed soil cover along the inboard slopes of the OGS Cap areas was discussed during the site tour and meeting. CDM/Compass will regrade to remove wind-blown soil and re-expose the geocomposite drainage strip, recompact the soil cover, and re-seed. Excess wind-blown soil can be pushed downslope and compacted to slightly flatten the soil cover slope and slightly raise the elevation at the inboard tow of the soil cover slope.
- It was agreed that the deep crack/solution feature undergoing repair on the partition dike between the NGS-S Reservoir and NGS-S Cap developed via solutioning of gypsum along a preferential seepage path (i.e., a thin initial crack) where lack of positive drainage from the road surface results in "ponding" of rainfall/spayed water. In order to reduce future maintenance efforts, it was suggested that CDM/Moretrench correct and maintain the design crest road grades (i.e., the design crest road pitch of 2%). (It is noted that final grading of the crest had been on-hold pending completion of use of the subject crest as the primary haul road for soil cover materials from the Gulfstream I borrow site.)

Acceptances

- On 6/23/06 for liner installation, OGS Phase I west stormwater ditch subgrade, from station 128+75 to 126+00.
- On 6/27/06 for liner installation, OGS Phase I west stormwater ditch subgrade, from station 121+50 to 126+00.
- On 6/29/06 for gypsum amendment and grassing, the NGS Phase II slopes above the 1:1 cut, pending completion of finish grading and correction of crest road grades where applicable.

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9.0 COMMENTS by PROGRAM MANAGER

- Change order requests related to Phase I closure gypsum quantity adjustments and Phase I south seepage collection drain lowering are in progress.
- CDM received a copy of Ardaman's DTM (3D model) for sludge in the SCP-N on 6/28/06.
- CDM requested information from Ardaman regarding planned modifications to the NCP slurry wall.

10.0 COMMENTS by FDEP

- Regarding project schedule, it was requested that CDM prepare and distribute a tabulated summary of planned milestone dates for the various watershed reduction areas. These milestone dates will be incorporated in Ardaman's next water balance projection update.
- FDEP complimented CDM and its subcontractors on work progress which has been accomplished during the past 4 weeks.