

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 06-110A	Page 1 of 4
		Meeting Date: <u>10/26/06</u>	
		Report No: <u>84</u>	Report Date: <u>11/1/06</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: Rob Werner, John Cameron, Tony Deatherage FDEP: CDM: Dean Carter, Mike Cruz, Steve Solters, Jean Wilson, George Curry Comanco: Tom Topp, Paul Moore Compass: Tim Morrow, Jeremy Giles HRK:			

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 Thursday, November 2, 2006
Site Tour at 8:00 am followed by
Construction/Engineering & CDM Operations Meetings

1.0 REVIEW MINUTES OF PREVIOUS MEETING

- Section 8.0 Technical Items - Acceptances. Regarding acceptance of subgrade for liner installation on 10/19/06, it was incorrectly recorded that the acceptance was to station 138+50; the acceptance was actually to station 138+00.

2.0 SAFETY

No incidents were reported.

3.0 SUMMARY OF WORK PERFORMED

Comanco:

- Continued Phase II stormwater ditch grading and seepage collection drain installation. Installed about 590 ft of drain this week (from station 137+40 to 131+50).
- Also continued Phase II ditch liner installation. Installed about 52,272 sf this week (211,150 sf total as of 10/24/06). Note: Detail work had been essentially on hold pending satisfactory resolution of the extrusion welding problems - see 8.0 Technical Items - Miscellaneous for more.
- Equipment: 2 excavators, 2 dozers, 2 plate compactors, 2 3-inch pumps, 1 4-inch vacuum pump, 1 loader, 1 track crawler dump, 1 mini-excavator, 1 trailer, 2 pick-up trucks, 1 crew van, 2 QC trailers, 6 generators, 1 smooth-drum roller- 30 personnel.

Compass:

- Well Water usage - 140,000 gallons used for dust control since last report.
- Continued washout repairs - on the OGS south slope, OGS and NGS Cap Ponds, and the south side of the Relief Ditch.
- Equipment: 5 dump trucks, 1 water truck, 2 D6 dozers, 1 D8 dozer, 2 excavators, 2 motor graders - 7 personnel. Mobilized 1 motor grader since last report.

CDM

- Continued dewatering and working stockpiled gypsum sediment/sludge in the SCP-S Cap area.

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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.

Compass:

- Continue repairing washouts.
- Start silt fencing at the Gulfstream II borrow area.

CDM

- Continue site preparation activities in the SCP-S area. Also plans to partition the north channel and start dewatering the east side (by pumping).

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. Conditional approval by Ardaman is based on field notes signed by Edgemon's surveyor and provided by Comanco/CDM. Ardaman requested a composite as-built survey for work performed to date, and that the survey be updated weekly. In a 10/25/06 email, CDM indicated that weekly-updated as-built drawingd will be provided by Edgemon. Ardaman also requested Edgemon's pre-construction layout drawing for the remainder of the Phase II ditch and stormwater pond.
- 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. A review of the data indicates that the 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.

6.0 PROJECT SCHEDULE

- No workdays were lost to weather this reporting period.
- The project schedule will be updated by CDM and distributed by email on 10/31/06. CDM indicated that they are presently working on activities scheduled for the SCP Cap areas and the NCP.
- CDM was requested to link various soil cover activities to clarify the sequence of this work. CDM was requested at the 10/19/06 meeting to link projected watershed removal dates to the appropriate scheduled grass maturation dates.
- Regarding resumption of soil cover, Compass indicated no change since last week - tentative plans are to start hauling soil cover material from the Gulfstream II area at a reduced rate 11/2/06, and to start hauling at full-scale production rates after a SWFWMD meeting which is presently scheduled on 11/30/06-12/1/06.
- Weekend work schedule: Comanco 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).

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.

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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.
- 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.
- 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. Additional detail drawings will follow.

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 - 168 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) - 23 marked (OR PLANNED), 13 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 - 30 passing, 8 failing, none pending.

Miscellaneous

- Rainfall: CDM reported 0.00 inches from 10/17/06 through 10/24/06.
- Regarding resolution of the extrusion welding problems, Comanco prepared several test welds on the morning of the meeting, using a variety of welding rods (including rods that had previously resulted in bad welds). David Leggett, GSE's VP (North American Dealer Sales Products Division), along with CDM, Ardaman and Comanco Representatives, examined several of the test welds, but no substantial defects were observed. Several samples of poor welds test welds made using suspect welding rod two days prior were given to Mr. Leggett who took them back to the plant for further examination and testing. In the mean time, GSE will provide new welding rod produced from a different resin lot. It was agreed that Comanco can proceed with marking, cutting and repairing planned DT's provided no bubble-related problems arise with the new welding rod and provided frequent trial welds be performed.

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- Ardaman, CDM and FDEP (Scott Rose) observed conditions in the seepage breakout on the access road along the north toe of the return ditch containment berm. Ardaman summarized observations and provided recommendations to the Department by email on 10/16/06. CDM responded to the recommendations by email on 10/20/06.
- Ardaman and FDEP (Scott Rose) observed conditions of resumed seepage flow from the "Granddaddy Boil" area located near the east end of the return ditch along the north toe of the OGS, and CDM reported water sampling results at the 10/12/06 meeting. CDM and Ardaman will continue to monitor seepage flow at this location.
- Compass reiterated their intent to import soil for soil cover from borrow area(s) other than Gulfstream II. CDM/Compass were requested to identify the potential borrow site(s). Upon request, Ardaman will accompany CDM/Compass to the proposed site(s) and take bulk samples for geotechnical testing. Soil boring logs will also be provided if available. Chemical screening will also be required.

Acceptances

- On 10/20/06, subgrade for liner installation, Phase II Slope Cover stormwater ditch, from station 138+00 to 136+50.
- On 10/26/06, South Cooling Pond Process Water Sump, including all associated earthwork (soil), 80-mil liner placement, and grading and dewatering of the sump.

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.
- Soil cover quantities for Tasks C2 and C3 were discussed at the Program Manager's meeting on 9/7/06; CDM has reviewed input provided by Compass on 9/28/06, and emailed quantities to FDEP and Ardaman for review. CDM has indicated agreement with all Ardaman quantities, except for the OGS-N.
- CDM has received proposals from Compass and Comanco 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. CDM submitted a change order request for this work, and received comments by FDEP on 10/18/06. CDM submitted a revised change order request on 10/24/06.
- CDM was requested at the 9/21/06 construction meeting to submit a summary report regarding the incident of metal shovels being used by Comanco to clean liner in the Phase II Slope Cover lined stormwater ditch. A draft report was distributed at the meeting - the report will be revised and distributed by email.
- A tabulation for grassing work to date was received by CDM from Compass, and forwarded to FDEP on 10/2/06. The tabulation was distributed at the 10/12/06 meeting; CDM was requested to include a tabulation of acres for each area worked - the tabulation is in progress by Compass.