

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 06-110A	Page 1 of 4
		Meeting Date: <u>6/12/07</u>	
		Report No: <u>117</u>	Report Date: <u>6/20/07</u>
Project Name:	CLOSURE CONSTRUCTION - OGS & NGS SLOPES, NGS-N RELIEF DITCH, SCP-S AND SCP-N		Project Address: 300 U.S. Highway 41 North Palmetto, Florida 34221 Manatee County
<u>ATTENDEES:</u> Ardaman: John Cameron, Tony Deatherage FDEP: CDM: Dean Carter, Mike Cruz, Jack Partin, Jean Wilson, George Curry, Wayne Winner Comanco: Compass: Mike Slovensky, Dan Hemphill, 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, Mike Slovensky
 HRK: Art Roth, Ivan Nance

Next Meeting is Scheduled for Thursday, June 21, 2007
Site Tour at 8:00 am followed by
Construction/Engineering and CDM Operations Meetings at 9:00 am

1.0 REVIEW MINUTES OF PREVIOUS MEETING

- 8.0 Technical Items, Quality Control Activities: SCP Phase II liner conformance testing results: it was incorrectly recorded that 15 rolls of 80-mil textured had been conditionally approved - the correct quantity is 11 rolls as of 5/31/07.

2.0 SAFETY

- No safety incidents were reported.

3.0 SUMMARY OF WORK PERFORMED

Compass

- Well Water usage - 110,000 gallons since last report.
- Water seed and sod areas; continued repairs on the NGS-N north slope.
- Continued hauling soil from the Gulfstream II borrow area; total hauled as of 6/13/07 was reported at 78,166 cy (estimated by truck count).
- Continued placing and compacting soil cover on liner in the Phase I south stormwater ditch liner.
- Continued placing soil cover on liner in the Phase II stormwater pond.
- Started placing soil cover on liner at the NGS-N Relief Ditch.
- Completed work on access ramps across the NGS-S east stormwater ditch.
- Equipment: 6 dump trucks, 2 water trucks, 3 D6 dozers, 2 excavators, 1 motor grader, 2 club carts, 1 skidsteer bobcat, 1 fuel truck, 3 pumps - 25 personnel.

Comanco

- Comanco was not represented at the meeting; a written report was submitted by email.
- Continued liner deployment and started detail work on the SCP-S west compartment dikes and bottom; 67,821 sq ft of 40-mil textured and 581,940 sq ft of 40-mil smooth liner were deployed as of 6/12/07.

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- Received 43 rolls of 40-mil smooth liner, and 2 rolls of 80-mil textured.
- Equipment: 1 excavator, 1 loader, 1 crawler, 2 pick-up trucks, 1 QC trailer - 16 personnel

CDM

- Introduced Wayne Winner, who is assisting Jack Partin with field supervision of construction activities.
- Continued grading and compacting the SCP-S west compartment; started grading for structure no. 2.
- Continued dewatering, grading and compacting the SCP-N.
- Continued desiccating sludge in the SCP-N, and loading and hauling sludge to the NCP.
- Continued prefabricating drain collector-to-header pipe connections for the SCP seepage collection drain system.
- Backfilled and compacted soil below and above 12-inch outlet pipe east of SCP manhole No. 1.
- Equipment: 6 dump trucks, 1 loader, 4 D6 dozers, 5 excavators including 1 long-stick, 2 compactors, 2 water trucks, 1 4-inch double diaphragm pump, 3 6-inch service pumps, 1 2-inch pump, 2 plate compactors, 1 12-inch fusing machine - 17 personnel.

4.0 PROJECTED WORK FOR NEXT WEEK

Compass

- Water seeded and sodded areas; continue repairs on the NGS-S slopes.
- Continue hauling soil from the Gulfstream II borrow area and placing soil cover on the Phase I and II stormwater ditch liner; continue placing soil cover on the Phase II stormwater ditch liner.

Comanco

- Continue liner deployment and detail work on the SCP-S west compartment dikes and bottom.

CDM

- Continue grading and compacting the SCP-S west compartment (including structure nos. 2 and 3).
- Continued grading and compacting the SCP-N, continue desiccating sludge in the SCP-N, and continue loading and hauling sludge from the SCP-N to the NCP and to the SCP sludge storage area.
- Continue preparation of excess material stockpile area.
- Start cleaning/removing gypsum from the lined NGS Relief Ditch.
- Start excavating for the SCP-S south seepage drain installation; continue prefabricating drain collector-to-header pipe connections.

5.0 SURVEY NOTES

- CDM/Edgemon continued as-built surveys of the SCP-S liner subgrade and submitted to Ardaman for approval.
- CDM/Edgemon laid out and will as-built survey the panel drains in the NGS Relief Ditch.

6.0 PROJECT SCHEDULE

- 1 workday was lost by Compass and Comanco to rain this reporting period, ½ day by CDM.
- CDM will update and distribute the project schedule by email on 6/19/07.
- Weekend work schedule: CDM and Compass 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).

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- AgruAmerica factory test results were received for rolls delivered last week. As summary of outstanding manufacturer submittals will be updated in the liner inventory report next week.

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.
- 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.
- 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 (hard copies and CD's). Additional signed large drawings sets were distributed at the meeting. Supplemental drawings were distributed at the 3/29/07 meeting to clarify installation of the SCP-S seepage collection drain system between point nos. 14 and 23 (end of drain). It was noted at the 4/5/07 meeting that the east end of the drain may be shortened to accommodate installation of a cut-off wall that is being considered in conjunction with design discussions related to the proposed Buckeye Road groundwater collection drain.
- 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.
- Drawings C-1, C-2, D-1, D-2 and D-3 were distributed at the 4/5/07 meeting for the First 50 percent - Plant Watershed Areas. Drawing C-1, revision 1 and a CD were distributed at the meeting for use as an interim grading plan.
- Ardaman distributed a detailed grading plan figure at the 5/10/07 meeting to clarify the transition from typical berm section to outlet pipe profile at the locations of the SCP cap outlets; additional clarifications were sent by email to CDM on 5/21/03 and 5/23/07.
- Regarding closure of the NGS-N crest roads, Ardaman replied to CDM's proposed location for placement of gypsum to be excavated to lower the crest roads to grade in a 6/6/07 email. A marked-up copy of the proposed typical cross section for placement of gypsum on the north end of the NGS-S east slope was provided a sketch at the meeting. See 8.0 Technical Items, Miscellaneous for more.

Quality Control Activities

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- Ardaman had 9 technicians on site this reporting period.
- In-place gypsum/soil density tests
Phase II SCP closure - 99 passing, 3 failing (SCP-N pond bottom), none pending.
- In-place soil fill density tests
OGS reservoir slope cover - no change - 59 passing, none failing, none pending.
Phase I stormwater ditches soil cover - no change - 42 passing, none failing, none pending.
- Liner conformance testing
SCP Phase II liner conformance testing was last updated on 6/6/07 (revision 2).
- Liner destructive testing (DT's)
SCP Phase II pond - 46 marked, 2 passed, 5 failed in field, 26 pending.

Miscellaneous

- Rainfall was reported by CDM at 0.44" from 5/30/07 through 6/12/07.
- CDM and Ardaman continue to monitor the Granddaddy Boil location.
- Protection of the twin 18" gate valves on the NGS-N outlet pipeline and plans for final grading of the existing low area around the valves at the northwest corner on the NGS-N were discussed at the 5/17/07 meeting. Ardaman will provide a sketch for HRK's review and then to CDM for execution.
- Ardaman indicated at 5/31/07 meeting that the design for the south drain segment east of Outfall 003 will be revised for compatibility with the proposed Buckeye Road groundwater collection drain and associated cutoff wall (plans for which are currently under review by CDM).
- Regarding removal and placement of gypsum from the NGS-N northern and western crest roads, Ardaman indicated to CDM by email on 6/8/07 that the capacity of the proposed placement area is approximately 2,000 cy, whereas the anticipated cut volume is approximately 4,000 cy; a supplemental gypsum placement area needs to be identified.

Acceptances

- On 6/6/07 (verbal), SCP-S subgrade for liner installation, the east dike from station 59+75 to 58+75.

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 last discussed by conference call on 2/13/07 between FDEP, CDM and Ardaman. [Ardaman forwarded a sketch to CDM showing a potential cross section revision that may be considered to reduce the required gravel quantity via email on 2/23/07.] It has been agreed that the existing access ramps will be left in place until this work is done.
- Compass again updated their grassing tabulations and sent by email to CDM. CDM forwarded the updated tabulations to FDEP and Ardaman for review.
- CDM received an updated cost proposal from Compass for closure of the First 50 percent - Plant Watershed Area, which was forwarded to FDEP on 6/12/07.
- CDM/Comanco submitted preliminary quantity estimates for crest road closure. (Ardaman quantity estimates were submitted to FDEP via email 5/30/07). CDM/Comanco agreed to Ardaman's quantities for liner work; CDM is waiting on Compass quantity estimates.

10.0 COMMENTS by FDEP

- FDEP was not represented at the meeting.

11.0 COMMENTS by HRK

- HRK was not represented at the meeting.