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| <b>ARDAMAN &amp; ASSOCIATES, INC.</b><br><b>PROGRESS MEETING REPORT FOR</b><br><b>PINEY POINT GYPSUM STACK SYSTEM CLOSURE</b>                                                                |                                                                           | File No.: 06-110A<br>Meeting Date: <u>2/18/10</u><br>Report No: <u>242</u>                | Page 1 of 4<br>Report Date: <u>2/25/10</u> |
| Project Name:                                                                                                                                                                                | <b>CLOSURE CONSTRUCTION</b><br><b>NCP CAP &amp; PLANT WATERSHED AREAS</b> | Project Address: 13300 U.S. Highway 41 North<br>Palmetto, Florida 34221<br>Manatee County |                                            |
| <b>ATTENDEES</b><br>Ardaman: John Cameron, Tony Deatherage<br>FDEP:<br>CDM: Dean Carter, Mike Cruz, Osvaldo Ellis<br>Comanco: Dave Barnett, Gary Mitchell<br>Compass: Dan Felton<br>HRK/ECT: |                                                                           |                                                                                           |                                            |

**COPY TO:** FDEP: Phil Coram, Sam Zamani, John Coates  
 Ardaman: Nadim Fuleihan, Rob Werner, Tom Leto, John Cameron, Tony Deatherage  
 CDM: Dean Carter, Michael Edgar, Michael Cruz, Dick Slovarp  
 Comanco: Tom Topp, Dave Barnett  
 Compass: Tim Morrow, Jeremy Giles  
 HRK: Art Roth, Jeff Barath

***Next Meeting is Scheduled for Thursday 2/25/2010***  
***Construction/Engineering Meeting at 9:00 am***

**1.0 REVIEW MINUTES OF PREVIOUS MEETING**

- No corrections were reported.

**2.0 SAFETY**

- No incidents were reported.

**3.0 SUMMARY OF WORK PERFORMED**

**Compass**

- Continued soil cover ponds 1-2.
- Continued finish grading Western Return Ditch area.
- Continued soil cover OGS north stormwater ditch and SCP at former excess material stockpile area.
- No freshwater was used since last report.
- Equipment: 3 dump trucks, 1 water wagon, 1 excavator, 3 D-6 dozers, 1 D-3 dozer, 1 grader, 1 club cart, 10 personnel; mobilized 1 additional dump truck since last report.

**Comanco**

- Continued installation of soil for liner subgrade in the NCP; resumed pre-fabricating geotextile.
- Repaired liner at access ramp to SCP.
- Equipment: 1 loader, 3 dozers, 3 excavators, 2 longstick excavators, 2 haul trucks, 28 personnel.

**CDM**

- Applied Aquatics recommended an aerosol spray to control cattails in the stormwater ditches. CDM will send an MSDS to FDEP, waiting for recommended usage rate before submittal.
- Equipment: 1 water wagon, 1 personnel

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|                                                                                                                               | Meeting Date: <u>2/18/10</u>                                                          |                             |
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#### 4.0 PROJECTED WORK FOR NEXT WEEK

##### Compass

- Continue soil cover ponds 1-2, OGS north stormwater ditch, and SCP at former excess material stockpile area.

##### Comanco

- Continue soil cover for liner subgrade in the NCP; continue pre-fabricating geotextile.
- Start finish grading east section for liner subgrade; start 40-mil liner installation.

##### CDM

- Re-mow Buckeye Road ditch.
- Seed, fertilize Western Return Ditch Areas 4A, 4B and ponds 1-2.

#### 5.0 SURVEY NOTES

- CDM/Edgemon and/or CDM/Hamilton provided as-built surveys for ongoing work as necessary.
- Ardaman has been reviewing as-built surveys provided by CDM on a piece-wise basis for all of the project areas since the time Edgemon has been providing surveying services to CDM. Ardaman requested CDM to provide certified composite survey drawings for each project area for inclusion in the final completion reports. Ardaman will work with CDM/Edgemon to specify the required as-built drawing inventory.

#### 6.0 PROJECT SCHEDULE

- No workdays were lost to weather since last report.
- The project schedule will be updated by CDM next week.
- Comanco may work on Saturday, weather permitting.

#### 7.0 SHOP DRAWINGS and SUBMITTALS

- No submittals require action at this time.

#### 8.0 TECHNICAL ITEMS/CLARIFICATIONS AND QUALITY ASSURANCE

Regarding specifications, pertinent Phase III - NGS-S Reservoir Closure Specifications and ITN specification documents shall be used. Pertinent ITN specifications, along with specifications for HDPE panel drains and concrete erosion control mats, were compiled in a 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.

Current Closure Construction Drawing Versions are summarized below. (See Meeting Minutes No. 122 or earlier for detailed version control background information):

- Phase II Slope Closure: Sets dated 12/22/05; except for drawing nos. C-1 (rev. 2) and D-2 (rev. 1) dated 12/13/06.
- SCP-S, SCP-N & Basin 2 Closure: Sets dated 11/8/08. Note that 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, the east end of the drain and limits of the lined stormwater ditch will be shortened to accommodate installation of a cut-off wall associated with the proposed Buckeye Road groundwater collection drain. See 8.0 Technical Items - Miscellaneous for more.
- First 50 percent - Plant Watershed Areas: Drawings C-1, C-2, D-1, D-2 and D-3 were distributed at the 4/5/07 meeting. Drawing C-1, revision 1 and a CD were distributed in May 2007. Updated signed and sealed Drawings (that

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|                                                                                                                               | Meeting Date: <u>2/18/10</u>                                                          |                             |
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indicate work already completed in conjunction with change order #20 were issued at the 5/8/08 construction meeting; electronic CD copies were also provided.

Ardaman issued final drawings for the NCP Seepage Ditch Closure and remainder of the Phase I seepage collection drain at the 10/30/08 construction meeting.

Second 50 percent - Plant Watershed Area - Drawings C-1, C1a, C2 and C-3 were issued as hard copies and electronic files at the 11/20/08 construction meeting. CAD files of these drawings were also uploaded to Ardaman's ftp site on 11/25/08 for CDM's convenience, along with copies of historic aerial topographic survey files taken during Receivership before and after construction of aeration ponds A-D. A copy of the drawings were also provided to HRK at the 11/20/08 meeting for their review and comment. Details Drawings D-1 through D-6 for the hydraulic structures were provided via ftp transfer to CDM on 12/8/08. Detail drawings D7 and D8 were distributed electronically on 12/23/08, and are available on Ardaman's ftp site.

Drawings were issued in March 2009 for the additional Second 50% Plant Watershed Area - Aeration Ponds 1 and 2 and the Western Return Canal.

- Additional half-size copies of the Second 50% Plant Watershed were distributed at the 7/9/09 construction meeting. Ardaman also distributed a layout drawing to relocate the 12" HDPE discharge pipe from the lower ditch 48" manhole to Basin 2. As requested, CD's of the CAD drawings for the 2<sup>nd</sup> 50% and NCP closure were provided at the 8/13/09 construction meeting, along with a few additional copies of the full size prints (same drawings as previously issued).

#### Quality Control Activities

- Ardaman had 4 technicians on site this reporting period.
- In-place density tests soil cover on liner  
NCP ditches and 2<sup>nd</sup> 50% Plant Watershed Area - no change - 81 passing, none failing, none pending.
- In-place soil subgrade density tests  
1<sup>st</sup> 50% Plant Watershed Area - no change - 167 passing, none failing, none pending.  
NCP ditches and 2<sup>nd</sup> 50% Plant Watershed Area -- no change - 254 passing, none failing, none pending.  
SCP - no change - 586 passing, none failing, none pending.
- Liner seam destructive testing (DT's)

#### Miscellaneous

- Rainfall was reported by CDM at 0.63 inches from 2/9/10 through 2/15/10.
- CDM/Comanco were cautioned by Ardaman to make sure that site supervisors and operators be careful to remove any debris or objects (that could pierce geotextile or liner) from the stockpiled materials in the NCP that are currently being used for general fill. (Ardaman had previously cautioned CDM/Comanco on several occasions to avoid placing such materials in the stockpile; nonetheless, some such materials were placed in the stockpile).
- Regarding concrete debris generated through closure activities, CDM can dispose/bury in the NCP provided the items are adequately broken down to sizes that can be effectively buried within the sludge in areas yet to receive substantial cover material related to establishing cap liner subgrade.

#### Acceptances

- On 2/12/10, soil cover released for grassing, area 4B.

#### Punch List Items

As requested by FDEP, a list of items that have been identified to-date that will require attention by CDM prior to final project completion will be outlined in the meeting minutes for convenient reference and reviewed at future weekly construction meetings. Going forward, items will be removed from the list as they are completed and may be added to the list as additional items become apparent or are otherwise identified. FDEP requested that these items be included in future CDM project schedule updates..

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- Install new culvert pipe(s) into the north end of Basin 1 to replace the buried 24" RCP. The final drawing for the Basin 1 Plant Area Inlet Restoration work, including plan, section and details, was provided by email on 11/12/09.
- Accumulated eroded sediments from former slope cover washouts that currently inhibit flow in certain portions of the lined stack toe ditches needs to be removed to restore design grades and then the disturbed areas will need to be regrassed.
- Erosion gullies and bare areas (including, but not limited to stack crest roads, plant watershed areas, etc.) need to be repaired and grassed. Following work was reported as completed at the 12/29/09 meeting: vegetation in the OGS west and north ditches was cut by machete; crest roads between OGS-S, OGS-N and NGS-S were mowed; the east ½ of the 1<sup>st</sup> 50% Plant Watershed Area was re-seeded. Remaining items to be mowed include the NGS-N west ditch (west bank) and NGS-S east ditch drainage structure.
- Regarding the plant area stormwater ditch upgradient of Basin 1, the south ditch block has been removed and stormwater flows south. A 4" portable pump is still in place as needed.

#### **9.0 COMMENTS by PROGRAM MANAGER**

- Submitted a change order request to FDEP on 10/12/09 regarding NCP Closure ancillary additions, received comments on 10/21/09, and responded on 11/23/09. A conference call meeting was subsequently held with FDEP and Ardaman, and CDM submitted additional information which has since been discussed. CDM is presently reviewing grassing quantities with Ardaman.
- Comanco's proposed supervisor's resume was sent to FDEP ~ 11/2/09; contractor qualifications for Seminole Grassing for seeding work were sent to FDEP on 12/29/09.
- Met with FDEP in Tallahassee on 12/2/09. A follow-up meeting was held on 1/6/10; discussions are ongoing.
- CDM continues to visually monitor outfalls 001 and 003 for discoloration.

#### **10.0 COMMENTS by FDEP**

- FDEP has recognized CDM's mowing progress and slope repair efforts have been beneficial. Some areas remain in need of mowing, erosion repairs (e.g., some areas along the east ditch of the NGS-S, and the recently staked area along the north ditch of the NGS-N), and reseeded (some of the stack crest roads, for example).
- On behalf of the FDEP, Ardaman reiterated concern that dewatering efforts in the NCP to-date have generally been limited to partial surface water removal and suggested that further attempts to establish some pore water removal via ditching be made to promote at least some dessication within the remaining north and west areas prior to reinforcement placement and cap fill construction.

#### **11.0 COMMENTS by HRK**

- As initially discussed during the 9/25/08 meeting, FP&L had concerns about surface water near the substation area and minimum clearances for some of the power lines within the plant watershed closure area. FP&L visited the site on 6/10/09, and was generally satisfied with the plan to complete grading out a swale as proposed by Ardaman by email on 5/14/09 to CDM and HRK, pending receipt of an as-built drawing after the work is completed. FP&L is re-visited the site on 6/15/09 and met with representatives of Ardaman, HRK and FP&L.
- HRK is awaiting a proposal from FP&L to remove the substation.
- Installation of control structures on top of the gypsum stacks by Sarasota Land Services has been postponed.
- HRK reported at the 1/21/10 construction meeting that they plan to start construction of a domed storage building in the north parking area (construction is underway).