

CHANGE ORDER FORM
DEP Contract No. SP644
Page 1 of 2

Change Order No.: SP644-001 **Contractor Name:** CDM Constructors, Inc. (CDM)

Contractor Contract Manager: Dean Carter **Phone No:** (407) 660-6423

Description of Change(s) (Attach additional documents if referenced in description below.):

Activity Reference Code ¹	Change(s) authorized by this Change Order	Deliverable(s) and Due Date(s)	DEP Deliverable Review in Work Days	Payment Method	Dollar Value of Change (+ or -) ²	Change in Payment Basis
B1	Addition and corresponding changes to Payment Basis language on Attachment C, Payment and Deliverable Schedule, for Process Water Consumption by additional Spray Evaporation Systems in areas SE-3, SE-4, and SE-7 as described by CDM's April 18, 2005 letter, from Craig Kovach to Paul Roberts, et al., and hereby approved by the Department's Contract Manager pursuant to paragraph 34.I. of DEP Contract No. SP644.	No Change other than as noted for Payment Basis	No Change	No Change	\$0.00	Yes

Total Increase or Decrease in Project Costs resulting from this Change Order:	\$0.00
Ceiling Amount of Contract Impacted? (Yes or No)	No
Total Impact on Ceiling Amount all Change Orders (SP644-001 to SP644-001) to Date:	\$0.00
Ceiling Adjustments made by Amendments (____ to ____) to Date:	\$0.00
Current Ceiling Amount Adjustments Needed:	\$0.00

Notes: ¹Activity Reference Code shall conform to the activity code system established in Attachment C. ²Contractor understands that all funding for DEP Contract SP644 is established by authorized funding increment amounts. This Change Order does not increase or decrease the authorized funding increment amount of the Contract. All changes in authorized funding increment amounts shall be processed by letter or contract amendment as addressed in paragraph 7 of the Contract.

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Change(s) in Contract Completion Date Needed as a Result of this Change Order:

Current Contract Completion Date (without renewals):	February 22, 2010
Completion Date of Contract (without renewals) impacted by this Change Order? (Yes or No)	No
Increase or Decrease, in Calendar Days, Needed as a Result of this Change Order:	0
Total Increase/Decrease, in Calendar Days, Needed as a Result of all Change Orders (SP644-001 to SP644-001) to Date:	0
Completion Date Changes (in Calendar Days) Authorized by Amendments (____ to ____) to Date:	0
Current Completion Date Changes, in Calendar Days, Needed by Amendment:	0

This Change Order is a modification to the Contract between the Contractor and the Department (DEP), and all contract provisions shall apply unless specifically exempted. The amount and time change designated are the maximum agreed to by both the Department and the Contractor for this change. In consideration of the foregoing adjustments in contract time and contract sum the Contractor hereby releases Department from all claims, demands or causes of action arising out of the transactions, events and occurrences giving rise to this Change Order. This written Change Order is the entire agreement between the Department and Contractor with respect to this Change Order. No other agreements or modifications shall apply to this Change Order unless expressly provided herein.

Approval Required	Signature	Date
Director or Deputy Director, Division of Water Resource Management (Contract Authority, DEP):	Not required for Minor Changes in the Project per Contract paragraph 34.I.	na
DEP Contract Manager, Bureau of Mine Reclamation:		5/31/2005
Vice President, CDM Constructors Inc.:		5/27/05

List of Attachments/Exhibits Included with this Change Order:

Specify Type/Reference	Title/Description of Document	Number of Pages
CDM's April 18, 2005 letter DEP Contract No. SP644, Attachment C	CDM's April 18, 2005 letter from Craig Kovach to Paul Roberts, et al.	12
	DEP Contract No. SP644 revised per Change Order SP644-001	6

cc: Gwenn Godfrey, Procurement Section (MS93)
DEP Contracts Disbursements Section (MS78) - 2 Copies



QuietEarth Consultants, Inc.

P.O. Box 3147 • Riverview, FL 33568 • (813) 677-5026

Date: April 18, 2005

From: Craig A. Kovach, P.G.

MEMORANDUM

To: P. Roberts, V. Astley, D. Carter, S. Solters, M. Cruz, M. Edgar

Cc: J. Coates (FDEP), N. Fuleihan (Ardaman & Associates)

Subject: **Piney Point Phosphates Closure**
Short-term Conceptual Spray Evaporation Alternatives

Seven conceptual alternatives for spray evaporation systems at Piney Point (SE-2 through SE-8, Figure 1) were discussed this date during the weekly closure status meeting with CDM, FDEP, Ardaman, and the Receiver. Based on these discussions, three alternatives (SE-3, 4 and 7) were short-listed for immediate evaluation. Because the 2005 evaporation season has already begun, these alternatives need priority implementation.

The original seven conceptual alternatives are discussed in a memo dated 4-13-05, which is attached for reference.

SE-3: SCP Internal Dams and Area 19

The contaminated rainshed area between the north and south compartments of the South Cooling Pond (SCP-N and SCP-S) was previously utilized for first stage lime slurry deposition. The dams on either side of this area offer a good place to run 4 linear spray manifolds (one along each edge). The exposed lime sludge area between the two dams (approximately 80 to 100 ft wide) offers additional area that could be utilized for at least two spray headers (floating design). Maximum available area would comprise six 1500-ft manifolds containing a total of 900 sprays. Unused manifold from the cooling channel (SE-2) and similar piping removed from the gypsum stack areas undergoing lining can be used in this area. The back-up vertical turbine pond water pump would provide for water flow. Bag filters or bag strainers will be required. Lead time for nozzle delivery is approximately 6 weeks (BETE 1/4" TF8 Full Cone 90°, PVC).

The southern pair of manifolds (north dam of south compartment) would operate for approximately one year prior to relocation based on current closure schedule; the remainder could operate for approximately 2 years. A rough estimate of water removal from operation of this system is calculated based on use of 90° full cone nozzles, yielding 2.6 gpm at 40 psi, and applying a 95% annual operating factor. Minimum average annual evaporation is estimated at 5% of total amount sprayed; maximum annual average evaporation at 8%. Monthly evaporation estimates would be normalized using existing monthly pan evaporation data (e.g., Lake Alfred, 1966-1982). Results are tabulated below.

Memorandum – Short-term Conceptual Spray Evaporation Alternatives

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SE-3 Evaporation, 2005 (June-Dec); 900 spray heads in operation for 271 days, 95% operating factor:

Month (# days)	Monthly Min (5%) Avg Evap (Gal) Annual Basis	Monthly Max (8%) Avg Evap (Gal) Annual Basis	Pan Evap Factor	Monthly Min (5%) Prorated Evap (Gal)	Monthly Max (8%) Prorated Evap (Gal)
June (30)	4801680	7682688	1.2726	6110618	9776989
July (31)	4961736	7938778	1.2837	6369381	10191009
Aug (31)	4961736	7938778	1.2193	6049845	9679752
Sept (30)	4801680	7682688	1.0594	5086900	8139040
Oct (31)	4961736	7938778	0.9195	4562316	7299706
Nov (30)	4801680	7682688	0.6707	3220487	5152779
Dec (31)	4961736	7938778	0.5375	2666933	4267093
TOTAL	34 MM	55 MM	7	34 MM	55 MM

SE-3 Evaporation, 2006 (Jan-Dec); 600 spray heads in operation for 365 days, 95% operating factor:

Month (# days)	Monthly Min (5%) Avg Evap (Gal) Annual Basis	Monthly Max (8%) Avg Evap (Gal) Annual Basis	Pan Evap Factor	Monthly Min (5%) Prorated Evap (Gal)	Monthly Max (8%) Prorated Evap (Gal)
Jan (31)	3307824	5292518	0.5930	1961540	3138463
Feb (28)	2987712	4780339	0.6952	2077057	3323292
Mar (31)	3307824	5292518	1.0505	3474869	5559791
April (30)	3201120	5121792	1.2771	4088150	6541041
May (31)	3307824	5292518	1.4214	4701741	7522786
June (30)	3201120	5121792	1.2726	4073745	6517992
July (31)	3307824	5292518	1.2837	4246254	6794006
Aug (31)	3307824	5292518	1.2193	4033230	6453168
Sept (30)	3201120	5121792	1.0594	3391267	5426026
Oct (31)	3307824	5292518	0.9195	3041544	4866471
Nov (30)	3201120	5121792	0.6707	2146991	3435186
Dec (31)	3307824	5292518	0.5375	1777955	2844729
TOTAL	39 MM	62 MM	12	39 MM	62 MM

The effect of partial saturation of the two dams will be evaluated by Ardaman for any structural considerations. Penn Pro will evaluate vertical turbine pump operability and electrical power availability.

Advantages: Can be implemented quickly
 Non-ponded, non-floating design
 Evaporation within existing contaminated footprint
 Good evaporation on wetted sludge
 Location offers very good protection from drift impacts
 Access and terrain will facilitate assembly and maintenance
 Allows for a large number of sprays
 Easily relocatable

Disadvantages: Operation limited in time based on construction schedule
 Possible dam wetting effects

SE-4: North Cooling Pond (NCP)

The NCP has approximately 1900 ft of internal separation berms that will accommodate treated water evaporation using non-floating manifolds with 190 spray heads within the footprint of the pond. The feasibility of grading the tops of the berms for installation and maintenance access needs to be determined. Additional floating branches could be added in the future.

A rough estimate of water removal from operation of this system is calculated based on use of 90° full cone nozzles, yielding 2.6 gpm at 40 psi, and applying a 95% annual operating factor. Minimum average annual evaporation is estimated at 5% of total amount sprayed; maximum annual average evaporation at 8%. Monthly evaporation estimates would be normalized using existing monthly pan evaporation data (e.g., Lake Alfred, 1966-1982). Results are tabulated below.

SE-4 Evaporation, 2005 (June-Dec); 190 spray heads in operation for 271 days, 95% operating factor:

Month (# days)	Monthly Min (5%) Avg Evap (Gal) Annual Basis	Monthly Max (8%) Avg Evap (Gal) Annual Basis	Pan Evap Factor	Monthly Min (5%) Prorated Evap (Gal)	Monthly Max (8%) Prorated Evap (Gal)
June (30)	1013688	1621901	1.2726	1290019	2064031
July (31)	1047478	1675964	1.2837	1344647	2151435
Aug (31)	1047478	1675964	1.2193	1277189	2043503
Sept (30)	1013688	1621901	1.0594	1073901	1718242
Oct (31)	1047478	1675964	0.9195	963156	1541049
Nov (30)	1013688	1621901	0.6707	679881	1087809
Dec (31)	1047478	1675964	0.5375	563019	900831
TOTAL	7.2 MM	11.5 MM	7	7.2 MM	11.5 MM

SE-4 Evaporation, 2006 (Jan-Dec); 190 spray heads in operation for 365 days, 95% operating factor:

Month (# days)	Monthly Min (5%) Avg Evap (Gal) Annual Basis	Monthly Max (8%) Avg Evap (Gal) Annual Basis	Pan Evap Factor	Monthly Min (5%) Prorated Evap (Gal)	Monthly Max (8%) Prorated Evap (Gal)
Jan (31)	1047478	1675964	0.5930	621154	993847
Feb (28)	946109	1513774	0.6952	657735	1052376
Mar (31)	1047478	1675964	1.0505	1100375	1760600
April (30)	1013688	1621901	1.2771	1294581	2071330
May (31)	1047478	1675964	1.4214	1488885	2382215
June (30)	1013688	1621901	1.2726	1290019	2064031
July (31)	1047478	1675964	1.2837	1344647	2151435
Aug (31)	1047478	1675964	1.2193	1277189	2043503
Sept (30)	1013688	1621901	1.0594	1073901	1718242
Oct (31)	1047478	1675964	0.9195	963156	1541049
Nov (30)	1013688	1621901	0.6707	679881	1087809
Dec (31)	1047478	1675964	0.5375	563019	900831
TOTAL	12.3 MM	19.7 MM	12	12.3 MM	19.7 MM

Advantages: Non-ponded, non-floating design (manifolds on berms)
 Relatively easy access and maintenance (assuming graded tops)
 Expandable to floating branch headers
 Available to run for several years

Disadvantages: Relatively small number of sprays
 Possible equipment stability issues on berms (soft substrate)
 Ponded evaporation slightly less effective

SE-7: North Sludge Beach of SCP-N

A lime sludge beach extends out into the SCP-N inboard of the north dam. It is semi-circular in footprint with a radius of approximately 300 ft, which will accommodate 14 spray manifold branches on 20-ft centers extending from a primary header parallel to the inner toe of dam. Total number of sprays would be approximately 186. The SCP-N offers a good location for drift considerations, and the sludge beach offers a good opportunity for enhanced evaporation. The SCP-N also offers a good location for additional floating branch manifolds with sprays. Note also that this spray field can be piped together with SE-3, which provides the advantage of pumping consolidation.

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SE-7 Evaporation, 2005 (June-Dec); 186 spray heads in operation for 271 days, 95% operating factor:

Month (# days)	Monthly Min (5%) Avg Evap (Gal) Annual Basis	Monthly Max (8%) Avg Evap (Gal) Annual Basis	Pan Evap Factor	Monthly Min (5%) Prorated Evap (Gal)	Monthly Max (8%) Prorated Evap (Gal)
June (30)	992347	1587756	1.2726	1262861	2020578
July (31)	1025425	1640681	1.2837	1316339	2106142
Aug (31)	1025425	1640681	1.2193	1250301	2000482
Sept (30)	992347	1587756	1.0594	1051293	1682068
Oct (31)	1025425	1640681	0.9195	942879	1508606
Nov (30)	992347	1587756	0.6707	665567	1064908
Dec (31)	1025425	1640681	0.5375	551166	881866
TOTAL	7.0 MM	11.2 MM	7	7.0 MM	11.2 MM

SE-7 Evaporation, 2006 (Jan-Dec); 186 spray heads in operation for 365 days, 95% operating factor:

Month (# days)	Monthly Min (5%) Avg Evap (Gal) Annual Basis	Monthly Max (8%) Avg Evap (Gal) Annual Basis	Pan Evap Factor	Monthly Min (5%) Prorated Evap (Gal)	Monthly Max (8%) Prorated Evap (Gal)
Jan (31)	1025425	1640681	0.5930	608077	972924
Feb (28)	926191	1481905	0.6952	643888	1030220
Mar (31)	1047478	1640681	1.0505	1100375	1723535
April (30)	992347	1587756	1.2771	1267327	2027723
May (31)	1025425	1640681	1.4214	1457540	2332064
June (30)	992347	1587756	1.2726	1262861	2020578
July (31)	1025425	1640681	1.2837	1316339	2106142
Aug (31)	1025425	1640681	1.2193	1250301	2000482
Sept (30)	992347	1587756	1.0594	1051293	1682068
Oct (31)	1025425	1640681	0.9195	942879	1508606
Nov (30)	992347	1587756	0.6707	665567	1064908
Dec (31)	1025425	1640681	0.5375	551166	881866
TOTAL	12.1 MM	19.3 MM	12	12.1 MM	19.3 MM

- | | |
|----------------|---|
| Advantages: | Evaporation within existing contaminated footprint
Could be tied into SE-3 system
Location offers good protection from drift impacts
Good evaporation on wetted sludge
Expandable in SCP-N to large floating system |
| Disadvantages: | Relatively small number of sprays
Soft substrate |

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Attachment

Date: April 13, 2005From: Craig A. Kovach, P.G.**MEMORANDUM****DRAFT**To: P. Roberts, V. Astley, D. Carter, S. Solters, M. CruzSubject: Piney Point Phosphates Closure  
Conceptual Spray Evaporation Alternatives

The following provides a review of various alternative approaches for installation of additional spray evaporation systems at the Piney Point site. The primary focus at this time is on practical, short term alternatives that can be implemented quickly and economically, and that will utilize as much existing/available onsite materials as possible (e.g., piping and pumps), and that will provide ease of maintenance. All spray alternatives considered are contained within the existing contaminated rainshed footprint. Locations and layout of potential spray evaporation areas 1 through 8 (SE-1 through SE-8) are shown in Figure 1.

All rough calculations use 2.6 GPM spray flows with uniform annual evaporation rates of 5% of water sprayed. *This is conservative and is provided for relative comparison only.* Note also that in certain cases, lower flow spray nozzles may be needed, and these can have evaporation rates ranging from 10% to 20% of water sprayed.

1. SE-1: Floating sprayfield in NGS-N (in progress).
2. SE-2: Cooling Channel west of OGS-S.

Existing header pipes with risers are currently unused along the toe road of the west side of the Old Gypsum Stack South (OGS-S). This piping follows the top-of-bank of the cooling channel and extends around to the east side of the South Cooling Pond (SCP). Along the OGS-S, piping is located on both sides of the cooling channel; along the east side of the SCP both pipes run adjacent to each other on the east top-of-bank only. Estimated total length of the existing piping is 2500 ft times two runs of 12-inch diameter heavy-wall HDPE (~5000 ft total). Ideally, this header piping would be reused/reactivated without reconstruction, but this does not appear possible. Due to the ongoing closure of the west slope of the OGS-S, spray drift is an important consideration.

The original concept explored was to drop both runs of piping down into the inside toe of the cooling channel. However, due to the poor condition of the OGS-S toe and the east slope of the cooling channel, it appears that the only feasible approach is to drop only the west pipe (on the west side of the cooling channel) down to the channel toe on the west side, and remove the east pipe for deployment in another SE area. The west toe is more accessible for spray line maintenance, and is slightly farther from the OGS-S slope. New shorter risers and new nozzles would be installed on the relocated header. At 10-ft centers, a total of 250 nozzles could be installed along the linear sprayfield created in SE-2. Assuming 2.6 gallons per minute (gpm) flow and conservative evaporation of 5% of

sprayed volume annually, SE-2 would result in removal of 46800 gallons per day (annual average). At 95% operating factor, this equates to 16.2 MM gal/year.

- Advantages:      Non-floating design  
                         Minimal relocation of piping manifold  
                         Evaporation in existing process water channel  
                         Can be implemented relatively quickly
- Disadvantages:    Ponded or partially ponded evaporation  
                         Probably requires some earthwork along toe/slope  
                         Proximal to treated water ponds and west stack slope  
                         Spraying below grade less effective

### 3. SE-3: Internal dams containing Area 19

The contaminated rainshed area between the north and south compartments of the South Cooling Pond (SCP-N and SCP-S) was previously utilized for first stage lime slurry deposition. The dams on either side of this area offer a good place to run 2 to 4 linear spray manifolds. Maximum available area would comprise four 1500-ft manifolds containing a total of 600 sprays. Unused manifold from the cooling channel (SE-2) and similar piping removed from the gypsum stack areas undergoing lining can be used in this area.

The southern pair of manifolds would operate for only one year prior to relocation based on current closure schedule; the northern pair could go for approximately 2 years. The southern pair could possibly be relocated to Area 19 itself (low area between the dams), but there are drawbacks to placing in the sludge (flotation and maintenance). (Note also that additional lines could be placed in this area from the outset, too). A total of 600 nozzles conservatively equates to roughly 38.9 MM gal/yr (2.6 gpm per nozzle, 5% evaporation of spray, 95% operating factor). Assuming 600 sprays over two years plus 300 sprays over one year, water removal would be 58.4 MM gal during that period. At least 300 sprays could be added to the Area 19 ditch, which would provide another 19.5 MM gal/yr of removal. The effect of partial saturation of the two dams needs to be considered.

- Advantages:      Can be implemented quickly  
                         Non-ponded, non-floating design  
                         Evaporation within existing contaminated footprint  
                         Location offers very good protection from drift impacts  
                         Access and terrain will facilitate assembly and maintenance  
                         Allows for a large number of sprays  
                         Easily relocatable
- Disadvantages:    Operation limited in time based on construction schedule  
                         Possible dam wetting effects

### 4. SE-4: North Cooling Pond (NCP)

#### Phase 1:

The NCP has approximately 1900 ft of internal separation berms that will accommodate treated water evaporation using non-floating manifolds within the footprint of the pond, which is used for second stage liming solids. Using the same conservative calculations, this equates to roughly 12.3

MM gal/year of evaporation. Lower flow spray heads with higher evaporation rates may be appropriate depending on available pumps in/for this area, as this system would need to use second stage treated water. Existing available laydown and other unused piping may be a good candidate for deployment. The feasibility of grading the tops of the berms for installation and maintenance access needs to be determined.

Phase 2:

Design and install floating sprayfield, possibly using SE-1 after removal from NGS-N. Also consider adding floating legs (using existing scavenged pipe) from Phase 1 berm manifolds to increase sprayfield capacity. SE-4 can accommodate a sprayfield of similar size to that in SE-1.

Need to verify closure schedule for NCP.

Advantages:      Non-ponded, non-floating design (Phase 1)  
                         Relatively easy access and maintenance (assuming graded tops)  
                         Expandable to floating branch headers

Disadvantages:   Second stage treated water only  
                         Relatively small number of sprays (Phase 1)  
                         Possible equipment stability issues on berms (soft substrate)  
                         Ponded evaporation (Phase 2)

5. SE-5: Future lined stormwater transfer pond

Possible use for lined evaporation of process water post-lining. Current schedule indicates closure in 2006. Can accommodate up to 300 sprays in a grid configuration (min 19.5 MM gal/year evaporation, probably much higher due to black liner). Rerouting of stormwater may be appropriate to utilize this area for evaporation. Note also that this area could accommodate a sprayfield now, but it would only run for one season prior to reconstruction over liner or reassembly.

Advantages:      Evaporation on liner  
                         Large number of sprays  
                         Indefinite operation post closure if stormwater can be rerouted  
                         Easy access and maintenance

Disadvantages:   Closure construction reconfiguration required (for spray over liner)  
                         Proximal to stack side slope  
                         Proximal to property boundary and outfall  
                         Longest pumping distance

6. SE-6: Future process water sump in SCP-S

Evaluate for post closure evaporation in lined basin. Can accommodate up to 900 sprays in a grid configuration (min 58.5 MM gal/year evaporation, probably much higher due to black liner).

Advantages:      Evaporation on liner and in contaminated footprint  
                         Large number of sprays  
                         Indefinite operation post closure  
                         Easy access and maintenance

Disadvantages:     Floating design  
                         Proximal to stormwater basin (if SE-6 is not opted)  
                         Proximal to property boundary (but southern extent can be reduced)

7. SE-7: North inner toe of SCP-N

Possible relocation spot for manifold(s) pulled from SCP-S dam (SE-3). Would provide 1800 feet (180 nozzles) for 11.7 MM gal/year evaporation. Good location for drift considerations, but likely needs to be a floating manifold. Once installed, can have additional floating branch manifolds with sprays. Note also that this run could be piped to SE-3, which provides the advantage of pumping consolidation.

Advantages:        Evaporation within existing contaminated footprint  
                         Could be tied into SE-3 system  
                         Location offers good protection from drift impacts

Disadvantages:    Tiebacks or floating design  
                         Ponded evaporation

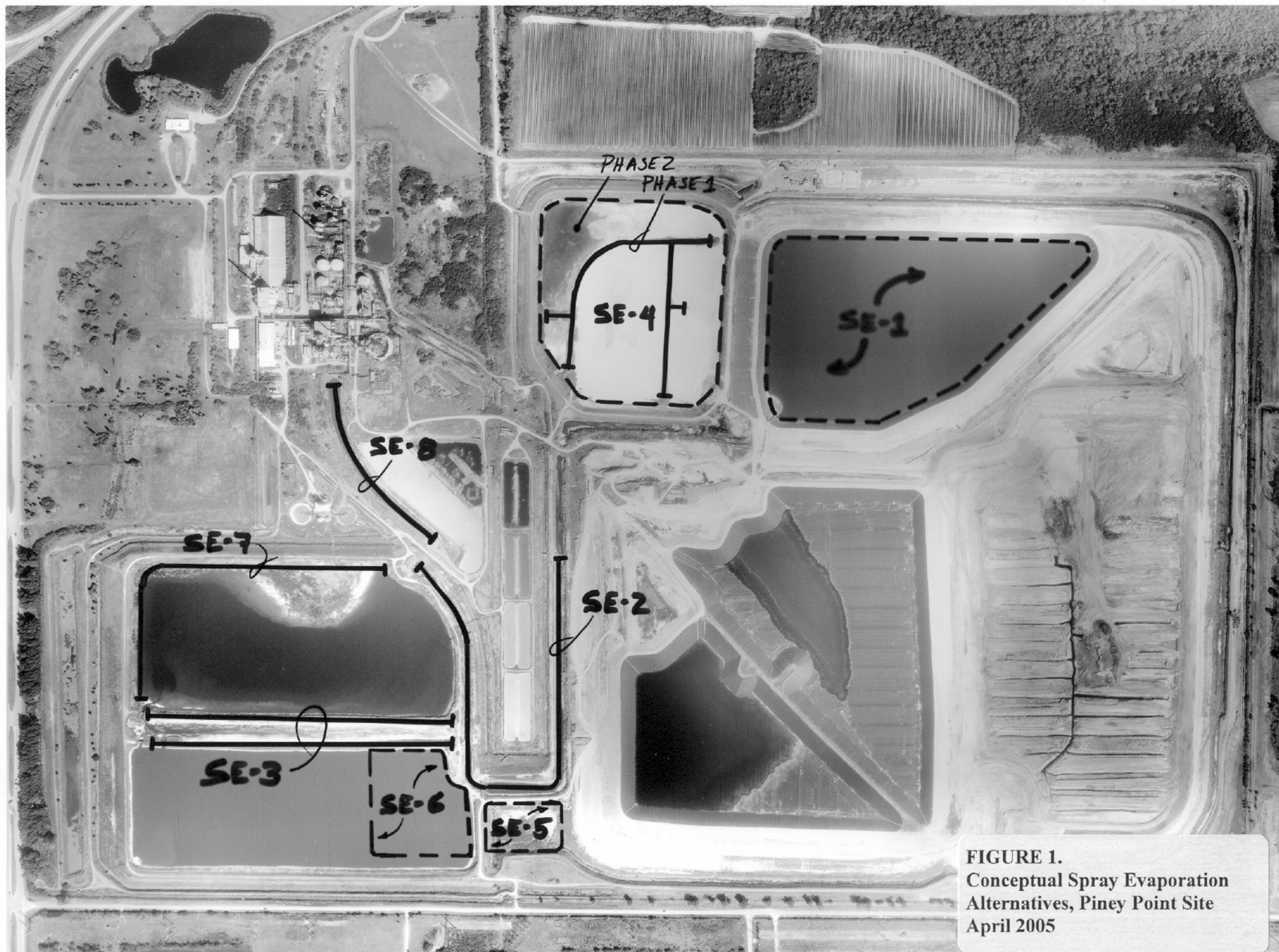
8. SE-8: Return channel

Possible location for 900 feet of manifold (90 sprays).

## ATTACHMENT A

### Available HDPE Piping Preliminary Inventory

| LENGTH       | DIAM | WALL | TOTALS       | LOCATION                               |
|--------------|------|------|--------------|----------------------------------------|
| 1 x 30'      | 4"   |      | 70' of 4"    | Boneyard                               |
| 1 x 40'      | 4"   |      |              | Boneyard                               |
| 3 x 40'      | 5"   |      | 120' of 5"   | Boneyard                               |
| 4 x 30'      | 7"   |      | 120' of 7"   | Boneyard                               |
| 2 x 60'      | 9"   |      | 320' of 9"   | North side of DAP                      |
| 1 x 200'     | 9"   |      |              | DAP to Phos Acid, Unused RO Line       |
| 2 x 50'      | 12"  |      | 950' of 12"  | Boneyard                               |
| 10 x 40'     | 12"  |      |              | Boneyard                               |
| 6 x 40'      | 12"  |      |              | Boneyard                               |
| 6 x 35'      | 12"  |      |              | Boneyard                               |
| 1 x 75'      | 15"  |      | 75' of 15"   | Phos Acid, Unused RO Line              |
| ?            | ?    |      |              | SCP Siphon Line (formerly for barging) |
| 5000' (est.) | 12"  |      | 7000' of 12" | Old spray header at toe of OGS         |
| 2000' (?)    | 12   |      |              | Old spray header stockpiled on OGS     |



**FIGURE 1.**  
Conceptual Spray Evaporation  
Alternatives, Piney Point Site  
April 2005

**ATTACHMENT C  
PAYMENT AND DELIVERABLE SCHEDULE**

| DESCRIPTION                                 |                                                                                                                                                                  | Fixed-Price | Lump Sum Unit Rate | APPROVAL PERIOD <sup>(5)</sup> | DELIVERABLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PAYMENT BASIS <sup>(8)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>A. OPERATION AND MAINTENANCE</b>         |                                                                                                                                                                  |             |                    |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>OPERATION AND MAINTENANCE, Years 1-2</b> |                                                                                                                                                                  | \$6,552,794 | NA                 |                                | Operation and Maintenance activities are to be reported in the "Piney Point Operation and Maintenance Status Report" (Monthly Status Report) to be submitted with the monthly Operation and Maintenance Invoices. The format for the Monthly Status Report shall provide sufficient detail and summary information for the Department Contract Manager to determine the extent to which contract requirements are being met. The specific format will be mutually agreed upon by the Contractor and the Department. | <p>Monthly invoice line items shall be provided as follows:</p> <p>1. During the first contract month only for Operation &amp; Maintenance (O&amp;M), an invoice line item shall include the price for "O&amp;M Activities and Mobilization" based on the agreed upon lump sum allocation of \$ 375,000.</p> <p>2. During the second month, and on a monthly basis thereafter, the lump sum O&amp;M amounts shall be invoiced as "Site Operation &amp; Maintenance Activities" based on the agreed upon O&amp;M Monthly Lump Sum Allocation Values shown below for this Scope of Services. The invoice line item should reference the corresponding year and month for services.</p> <p>O&amp;M Monthly Lump Sum Allocation Values, not to exceed:</p> <ul style="list-style-type: none"> <li>- Contract Year 1, Months 2-12 shall be \$ 268,600 / month</li> <li>- Contract Year 2, Months 1-12 shall be \$ 268,600 / month</li> <li>- Contract Year 3, Months 1-12 shall be \$ 149,950 / month</li> <li>- Contract Year 4, Months 1-12 shall be \$ 100,000 / month</li> <li>- Contract Year 5, Months 1-12 shall be \$ 79,939 / month</li> </ul> <p>Retainage: None, unless otherwise specified in Change Order after contract execution.</p> |
| <b>OPERATION AND MAINTENANCE, Years 3-5</b> |                                                                                                                                                                  | \$3,958,663 | NA                 |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| A1                                          | Site Operation and Maintenance (Including Process Water and Runoff Management, Inspections, Site Security, Mowing, Repairs, and Post-Closure Care & Maintenance) |             |                    |                                | Activity to be included on the Monthly Status Report.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| A2                                          | Utilities (Power, excluding power used in process water consumption, Water, Domestic Wastewater, Refuse Collection, etc.)                                        |             |                    |                                | Include KWH consumption in the Monthly Status Report.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| A3                                          | Safety Training and Safety Compliance                                                                                                                            |             |                    |                                | <p>1. Incident Reports to be included in the Monthly Status Report and verbal notifications provided to DEP Contract Manager as needed.</p> <p>2. A copy of an Employee Training Log shall be provided monthly showing the required training for employees performing services under this contract, and either the planned or actual dates of corresponding employee training.</p>                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| A4                                          | Groundwater Monitoring Plan Implementation                                                                                                                       |             |                    |                                | Reporting according to Discharge Monitoring Reports (DMRs) per Administrative Agreement, National Pollutant Discharge Elimination System (NPDES) permit, or other Department issued orders as may be effective, issued, or amended during contract period for the subject site/facilities.                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| A5                                          | Surface Water Monitoring Plan Implementation                                                                                                                     |             |                    |                                | Reporting according to DMRs per Administrative Agreement, NPDES permit, or other Department issued orders as may be effective, issued, or amended during contract period for the subject site/facilities.                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| A6                                          | Project Coordination, Direction & Reporting                                                                                                                      |             |                    |                                | Include activity summary information in the Monthly Status Report including Monthly Site Meeting minutes between DEP contract manager, Receiver, Engineer, and Contractor's team.                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| A7                                          | Liability Insurance Coverage (Including Pollution Liability)                                                                                                     |             |                    |                                | Copy of effective Insurance Policy showing policy type, coverage limits, and policy term.                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

**Task A, Total Lump Sum: \$10,511,457**

| DESCRIPTION                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Fixed-Price  | Lump Sum<br>Unit Rate | APPROVAL<br>PERIOD <sup>(5)</sup> | DELIVERABLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PAYMENT BASIS <sup>(8)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>B. PROCESS WATER CONSUMPTION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |                       |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| B1                                  | Years 1-2, Up to 712.5 Mgal Consumption                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | \$ 7,624,007 | \$ 10.70 / 1,000 gal. |                                   | Weekly Water Report spreadsheet including, but not limited to:<br>- daily rainfall, pond water levels, and water volumes for each consumption method (i.e., Double-lime, RO, Spray Evaporation, or Spray Irrigation),<br>- daily measured ammonia nitrogen and estimated total nitrogen concentrations at Outfall 003,<br>- calculated daily total discharge load in lbs. for total nitrogen and ammonia nitrogen at Outfall 003, and<br>- the total discharge volume at Outfall 003, the 15-day rolling average and 30-day rolling average ammonia nitrogen and total nitrogen load (in lbs.) at Outfall 003.<br><br>The Weekly Water Report shall reflect the weekly period from Tuesday - Monday of a given week and be submitted to the Department within 48 hours of the end of the weekly period. The content and format for the Weekly Water Report shall be as agreed upon by the Department Contract Manager. | Monthly Invoice line items shall be provided as follows:<br><br>1. Each monthly invoice shall specify the total water consumption for each day in the period based on:<br>- measured water consumption volumes (by final disposal / discharge method) for double lime, RO permeate, and/or spray irrigation discharges in accordance with Note <sup>(1)</sup> , and<br>- spray evaporation consumption based on the reported Operation Factor for the period, and the agreed upon monthly adjusted baseline evaporative loss design rates in Note <sup>(2)</sup> corresponding to each Department approved spray evaporation system.<br><br>Retainage: None, unless otherwise specified in Change Order after contract execution. |
|                                     | Years 3-5, Greater than 712.5 Mgal Consumption up to 950 Mgal Consumption                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | \$ 2,021,268 | \$ 8.51 / 1,000 gal.  |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                     | Water consumption shall continue under contract terms for process water consumption; however, volumes greater than 950 Mgal are not billable beyond the lump sum amount, except as specified for Tasks B2 and B3. At the end of Years 1-2 from the effective start date for this task, any remaining lump sum balance of the Years 1-2 fixed-price, if any, will be paid upon satisfactory completion of Years 1-2 process water consumption tasks as outlined in this contract. At the end of Years 3-5 from the effective start date for this task, any remaining lump sum balance of the Years 3-5 fixed-price, if any, will be paid upon satisfactory completion of Years 3-5 process water consumption tasks as outlined in this contract. | \$ 0.00      | \$ 0.00 / 1,000 gal.  |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |                       |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                     | Spray Evaporation Consumption Adjustment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | See B1       | See B1                |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2. An additional invoice line item shall be added to reflect any invoiced amount or credit to be applied for an anticipated semi-annual "Spray Evaporation Consumption Adjustment" that will be determined based on semi-annual water balance modeling results provided by the Engineer. The water balance modeling results, or an alternative method proposed by the Engineer where mutually agreed upon, will be used to determine the spray evaporation consumption taking into consideration the measured or estimated water inputs/outputs and changes in water inventory.                                                                                                                                                   |
| B2                                  | Year 1, Additional 10.6 Mgal / inch rainfall above 55 inches                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NA           | \$ 12.40 / 1,000 gal. |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3. Pursuant to the Contract terms, an additional invoice line item shall be added at the end of Years 1, 2, and 3 to reflect any additional "Contract Allowance for Rainfall greater than 55 inches/year."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                     | Year 2, Additional 7.1 Mgal / inch rainfall above 55 inches                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              | \$ 13.02 / 1,000 gal. |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                     | Year 3, Additional 4.1 Mgal / inch rainfall above 55 inches                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              | \$ 14.66 / 1,000 gal. |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| B3                                  | Year 1, Debited 10.6 Mgal / inch rainfall less than 50 inches                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NA           | \$ 5.63 / 1,000 gal.  |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4. Pursuant to the Contract terms, an additional invoice line item shall be added at the end of Years 1, 2, and 3 to reflect any "Contract Deduction for Rainfall less than 50 inches/year."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                     | Year 2, Debited 7.1 Mgal / inch rainfall less than 50 inches                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              | \$ 5.63 / 1,000 gal.  |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                     | Year 3, Debited 4.1 Mgal / inch rainfall less than 50 inches                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              | \$ 1.66 / 1,000 gal.  |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| B4                                  | Years 1-2, Allowance for variation in drainable pore water volume and rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | \$211,500    | NA                    |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5. A monthly invoice line item shall include a uniformly allocated "Pore Water Allowance" cost based on the lump sum amount for the indicated period. Accordingly, Years 1-2 shall be invoiced for a total not to exceed \$211,500, or \$8,812.50 / month and Years 3-5 shall be invoiced for a total not to exceed \$70,500, or \$1,985.34 / month.                                                                                                                                                                                                                                                                                                                                                                              |
|                                     | Years 3-5, Allowance for variation in drainable pore water volume and rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | \$70,500     | NA                    |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

**Task B, Total Lump Sum:** \$9,927,275 <sup>(3)</sup>

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| DESCRIPTION                               |                                                                                         | Fixed-Price | Lump Sum<br>Unit Rate | APPROVAL<br>PERIOD <sup>(5)</sup> | DELIVERABLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PAYMENT BASIS <sup>(8)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------|-----------------------------------------------------------------------------------------|-------------|-----------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>C. CLOSURE CONSTRUCTION ACTIVITIES</b> |                                                                                         |             |                       |                                   | <p>Monthly submittals with Closure Construction Invoice:</p> <ul style="list-style-type: none"> <li>- Weekly construction meeting minutes, prepared by Engineer</li> <li>- Copies of agenda/minutes from ad hoc construction coordination and update meetings</li> <li>- Percent completion of each phase of each activity and work element</li> <li>- Conditional acceptance by Engineer of each phase/work element for invoicing of closure construction activities. See Note <sup>(4)</sup>.</li> </ul> <p>End of Construction Phase:</p> <ul style="list-style-type: none"> <li>- Engineer's certification of completion of construction for each activity</li> <li>- As Built drawings for each activity</li> </ul> | <p>Invoice based on Percent Complete, approved by Third Party Engineer, of the lump sum amount for each construction phase and each work segment.</p> <p>Retainage: 25% of each submitted invoice amount, except as specified below for seeding activities, to be released following Engineer's conditional acceptance of a given phase/work segment. Upon completion, submittals shall include a copy of the Engineer's Completion of Construction Certification and As-built Drawings provided by the Contractor.</p> <p>Retainage - seeding subtasks/activities: 40%, with the retainage to be released six months after seeding activity resulting in successful establishment of grassed cover following approval of Engineer.</p> |
|                                           | RESERVOIR SLOPE COVER (All 4 Ponds)                                                     |             |                       |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| C1                                        | Reservoir Slope Cover (All 4 Ponds)                                                     | \$6,454,324 | <sup>(4)</sup>        | 10                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                           |                                                                                         |             |                       |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                           | PHASE III - NGS-S COMPARTMENT                                                           |             |                       |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| C2a                                       | NGS-S Reservoir (2005)                                                                  | \$4,719,097 | <sup>(4)</sup>        | 10                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| C2b                                       | NGS-S Cap Area (2005)                                                                   | \$742,309   | <sup>(4)</sup>        | 10                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| C2c                                       | OGS Cap Areas (2005)                                                                    | \$732,150   | <sup>(4)</sup>        | 10                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| C2d                                       | NGS-N Relief Ditch (2005)                                                               | \$547,056   | <sup>(4)</sup>        | 10                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| C2e                                       | Re-Closure of NGS-N Relief Ditch if Used for Disposal of Plant Scale (at FDEP's Option) | \$1,413,000 | <sup>(4)</sup>        | 10                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                           |                                                                                         |             |                       |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                           | STACK SLOPES AND DITCHES                                                                |             |                       |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| C3a                                       | Phase I Slopes - OGS (2005)                                                             | \$2,790,147 | <sup>(4)</sup>        | 10                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| C3b                                       | Phase II Slopes - NGS (2006)                                                            | \$2,747,917 | <sup>(4)</sup>        | 10                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                           |                                                                                         |             |                       |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                           | COOLING/SLUDGE PONDS & DITCHES                                                          |             |                       |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| C4a                                       | NCP Closure                                                                             | \$3,787,926 | <sup>(4)</sup>        | 10                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| C4b                                       | SCP Closure                                                                             | \$7,076,574 | <sup>(4)</sup>        | 10                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                           |                                                                                         |             |                       |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

**Task C, Total Lump Sum: \$31,010,500**

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| DESCRIPTION |                                                                           | Fixed-Price | Lump Sum Unit Rate | APPROVAL PERIOD <sup>(5)</sup> | DELIVERABLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PAYMENT BASIS <sup>(8)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------|---------------------------------------------------------------------------|-------------|--------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | MISCELLANEOUS BILLABLE ITEMS                                              |             |                    |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| E2          | Transport Plant Scale to Stack (25,000 cy)                                | \$250,000   | \$ 10.00 / cy      | 10                             | Documentation showing percent complete approval from Engineer for scale placement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Invoice line items to be included on Construction Invoice based on percent task completion as approved by Engineer.                                                                                                                                                                                                                                                                                                                                                                                                             |
| F5          | Miscellaneous Lump Sum Costs other than Fluctuation and Plant Scale Costs | \$956,000   | NA                 |                                | Record keeping as required by state law.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Invoice as a separate lump sum line item as "Miscellaneous Lump Sum Costs other than Fluctuation and Plant Scale Costs." This separate invoice item shall be included on the monthly Operation and Maintenance invoices based the contract fixed-price amount, uniformly allocated over the expected 5 year term of the contract.                                                                                                                                                                                               |
|             | Fluctuation in Electric Power Costs - Operation and Maintenance           |             |                    | 10                             | Documentation showing the applicable power usage (in KWH), and the change in unit power cost from Florida Power and Light (FPL) for most favored commercial customers in the Tampa Bay area after considering an escalation corresponding to 3% per year from the FPL base rate charged for such customers in December 2004.                                                                                                                                                                                                                          | An additional invoice line item shall be added to reflect an invoiced amount (invoice debit or credit) to be applied for the annual "Fluctuation in Electric Power Costs" that shall be determined as outlined in Note <sup>(6)</sup> for electric power costs applicable to Operation and Maintenance activities and electric power costs associated with Process Water Consumption. The line item and amount (invoice credit or debit) shall be invoiced in the monthly invoice for the end of Contract Years 2, 3, 4, and 5. |
|             | Fluctuation in Liner Resin Costs                                          |             |                    | 10                             | Documentation showing the neat liner quantities for 40-mil, 60-mil, and 80-mil liner determined by the Engineer for planned construction activities in Contract Years 1, 2, and 3, and Liner Resin unit price quotes and unit conversions as outlined in Note <sup>(7)</sup> . The documentation shall show the change in actual liner resin unit cost for Contract Years 1, 2, and 3 after considering an escalation corresponding to 3% per year from the November 2004 Base Liner Resin Unit Cost established as outlined in Note <sup>(7)</sup> . | Documentation showing the neat liner quantities for 40-mil, 60-mil, and 80-mil liner determined by the Engineer from detailed construction drawings for planned construction activities in Contract Years 1, 2, and 3, and supporting documentation for determination of the "lowest adjusted price" (expressed in dollars per square feet) as outlined in Note <sup>(7)</sup> .                                                                                                                                                |

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**Notes:**

- (1) For days where the calculated 30-day rolling average ammonia nitrogen discharge is greater than 20 lbs./day and less than or equal to 50 lbs./day, the "billable consumption volume" for discharges to Bishop Harbor will be adjusted to reflect 90% of the actual corresponding volume (i.e., equivalent to 0.9 times the lump sum unit price for <= 50 lbs./day ammonia nitrogen). For days where the calculated 30-day rolling average ammonia nitrogen discharge is greater than 50 lbs./day, the "billable consumption volume" for discharges to Bishop Harbor shall be shown as zero. For days where the calculated 30-day rolling average ammonia nitrogen discharge is less or equal to 20 lbs./day, the "billable consumption volume" for discharges to Bishop Harbor shall be the water treatment volume.
- (2) Monthly Adjusted Baseline Evaporative Loss Design Rates are provided below, for each Department approved system, based on 24-hour/day, 7-days/week operation with an Operating Factor of 0.80.

2.1 SE-1, Existing Spray Evaporation System in NGS-N reservoir where the average Net Spray Consumption rate (in MGD) for the values from January through December is 0.200 MGD, when operating with 1169 nozzles at a minimum nozzle pressure and rate of 50 psi and 2.91 gpm/nozzle, respectively. When operating at sprayfield pressures between 25 and 50 psi, the Net Spray Consumption (MGD) at the given operating pressure may be determined by interpolating or extrapolating the Spray Consumption Factor from those shown in the corresponding table, multiplied by the listed monthly Net Spray Consumption (MGD) for the values at 50 psi to yield the reduced Net Spray Consumption (in MGD) for periods during that month when operating at pressures between 25 and 50 psi.

| Month | Average Pond Evaporation (in) | Average Net Spray Consumption (MGD) |
|-------|-------------------------------|-------------------------------------|
| Jan   | 2.48                          | 0.116                               |
| Feb   | 2.62                          | 0.135                               |
| Mar   | 3.88                          | 0.181                               |
| Apr   | 5.42                          | 0.261                               |
| May   | 6.26                          | 0.292                               |
| Jun   | 6.13                          | 0.295                               |

| Month | Average Pond Evaporation (in) | Average Net Spray Consumption (MGD) |
|-------|-------------------------------|-------------------------------------|
| Jul   | 5.70                          | 0.267                               |
| Aug   | 5.23                          | 0.244                               |
| Sep   | 4.52                          | 0.218                               |
| Oct   | 3.43                          | 0.160                               |
| Nov   | 2.47                          | 0.119                               |
| Dec   | 2.34                          | 0.109                               |

| Spray Consumption Factors |                             |                                   |
|---------------------------|-----------------------------|-----------------------------------|
| Pressure                  | Net Spray Consumption (MGD) | Spray Consumption Factor (factor) |
| 30                        | 0.08                        | 0.400                             |
| 40                        | 0.131                       | 0.655                             |
| 50                        | 0.2                         | 1.000                             |

2.2 Pursuant to Change Order SP644-001, the Average Net Spray Water Consumption rates are shown below for areas SE-3, SE-4, and SE-7, as described below, when operating at minimum nozzle pressure of 40 psi and inflow rate of 2.6 gpm/nozzle, respectively. Subject to Department approval, where the indicated number of operating spray system nozzles are changed from those indicated, the net spray consumption rate (in MGD) shall be adjusted accordingly, per nozzle increased or decreased, in the system as constructed.

- SE-3, Spray Evaporation System in South Cooling Pond (SCP) Internal Dams and Ditch Area between Dams.
- SE-4, Spray Evaporation System in North Cooling Pond (NCP).
- SE-7, Spray Evaporation System in North Sludge Beach of SCP-N.

| Month | SE-3<br>Average Net Spray Consumption for 900 nozzles (MGD) | SE-4<br>Average Net Spray Consumption for 190 nozzles (MGD) | SE-7<br>Average Net Spray Consumption for 186 nozzles (MGD) |
|-------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
| Jan   | 0.075                                                       | 0.020                                                       | 0.014                                                       |
| Feb   | 0.088                                                       | 0.024                                                       | 0.017                                                       |
| Mar   | 0.117                                                       | 0.032                                                       | 0.022                                                       |
| Apr   | 0.169                                                       | 0.046                                                       | 0.032                                                       |
| May   | 0.189                                                       | 0.052                                                       | 0.036                                                       |
| Jun   | 0.191                                                       | 0.052                                                       | 0.036                                                       |
| Jul   | 0.172                                                       | 0.047                                                       | 0.033                                                       |
| Aug   | 0.158                                                       | 0.043                                                       | 0.030                                                       |
| Sep   | 0.141                                                       | 0.038                                                       | 0.027                                                       |
| Oct   | 0.104                                                       | 0.028                                                       | 0.020                                                       |
| Nov   | 0.077                                                       | 0.032                                                       | 0.015                                                       |
| Dec   | 0.071                                                       | 0.019                                                       | 0.013                                                       |

- (3) Total Lump Sum for Process Water Consumption subject to adjustment for items B2 and B3 as governed by contract terms.
- (4) Closure Construction Activities subject to schedule subdivision and future updates by Engineer, including subdivision into mutually agreed upon releasable work segments for progress monitoring and payment purposes. Please see Attachment C, Table 1, Closure Task Breakdown, Piney Point ITN 2005002C for current subdivision of Closure Construction Activities.
- (5) The Approval Period shall be five (5) working days to inspect and approve the invoiced services for payment, unless another period of working days is specified herein.
- (6) The adjustment to pricing, if any, for fluctuations in electric power costs will be made based upon the posted unit price (in \$ per KWH) as charged by Florida Power and Light to its most favored commercial customers in the Tampa Bay area, compared to the adjusted unit price charged by Florida Power and Light to the same customers in December 2004 but after considering an escalation corresponding to 3% inflation per year. The change in unit power cost, relative to the escalated base unit price, in December 2005, December 2006, December 2007 and December 2008 will be used for making the adjustment (either debit or credit) for electric power costs during contract years 2, 3, 4 and 5, assuming a theoretical power usage of 11.3 Million KWH (Year 2), 3.8 Million KWH (Year 3), 2.6 Million KWH (Year 4) and 2.0 Million KWH (Year 5), respectively, during each of the corresponding four contract years.

<sup>(7)</sup> The adjustments to pricing, if any, for fluctuations in Liner Resin prices will be made based upon the neat liner quantities determined by the Engineer from detailed design drawings (without any adjustment for liner overlaps, liner buried in anchor trenches, increased liner area due to sloping surfaces, liner for repair patches, waste, etc.) for planned liner installation activities during each calendar year. The adjustment (either debit or credit) will be based upon the lower of either:

1) The lowest documented change in liner sheet unit price from at least two liner manufacturers (expressed in dollars per square feet) for orders placed in November 2004 escalated by 3% inflation per year, compared to orders placed in February 2005 and in December 2005 and December 2006, respectively, for planned construction activities in each of the first three contract years; or

2) The lowest documented change in Liner Resin unit price from at least two liner manufacturers or resin suppliers for orders placed in November 2004 compared to orders placed in February 2005 and in December 2005 and December 2006, respectively, for planned construction activities in each of the first three contract years. The change in actual liner resin unit price (expressed in dollars per pound of resin), after accounting for 3% escalation per year the November 2004 BAFO unit price of \$0.64/lb. shall be multiplied by 0.237 lb/ft<sup>2</sup>, 0.347 lb/ft<sup>2</sup> and 0.442 lb/ft<sup>2</sup> for 40-mil, 60-mil and 80-mil liner, respectively.

The lowest adjusted price as determined above (expressed in dollars per square feet) shall be multiplied by the neat liner quantity from detailed design drawings (expressed in square feet) times a factor of 1.10 adopted herein to accommodate additional liner buried in anchor trenches, liner overlaps, waste, etc.

<sup>(8)</sup> Lump Sum Unit rates or monthly allocations of the fixed cost amounts are rounded to the nearest cent or dollar as shown. In all cases, the final monthly invoice for a given period shall reflect the necessary amount so that the indicated fixed-price is not exceeded. There shall be no adjustment to the lump sum pricing presented in Attachment C for any fluctuations in Contractor's costs, including lime costs, fuel costs or any other utility or commodity cost during the term of the contract, except as specifically provided for herein, including Notes <sup>(6)</sup> and <sup>(7)</sup>.

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