

APPENDIX A

**HAZARDOUS WASTE FACILITY PERMIT
(AS AMENDED)**

Georgia Department of Natural Resources

205 Butler Street, S.E., Suite 1154, Atlanta, Georgia 30334
Lonice C. Barrett, Commissioner
Environmental Protection Division
Harold F. Reheis, Director
404/656-7802

July 18, 1995

Certified Mail

Return Receipt Requested

Mr. Terry Snell
Environmental Manager
William L Bonnell Co., Inc.
P.O. Box 428
Newnan, Georgia 30264

Re: Hazardous Waste Facility
Permit Amendment No. HW-087
William L Bonnell Company, Inc.
EPA ID No. GAD003273224

Dear Mr. Snell:

Enclosed is the permit amendment issued to William L Bonnell Company, Inc. for Hazardous Waste Facility Permit No. HW-087. The permit amendment contains specific conditions which must be met. The permit amendment is now in effect.

No comments were received during the public comment period. Should you have any questions, please contact Ken Grall at (404) 656-7802.

Sincerely,



Harold F Reheis, Director
Environmental Protection Division

HFR/kjg
Attachments
File: Bonnell (Y)
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State of Georgia
Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION



AMENDMENT TO
HAZARDOUS WASTE FACILITY PERMIT

Amendment To
Permit No. William L. Bonnell Company, Inc
HW-087

Effective Date
Of Amendment 7/19/95

In accordance with the provisions of the Georgia Hazardous Waste Management Act and the Rules, Chapter 391-3-11, (as amended through December 26, 1994), adopted pursuant to that Act, Permit No. HW-087 issued on 09/28/92 to:

William L. Bonnell Company, Inc.

for the following:

Post-closure care for a hazardous waste land treatment unit, a hazardous waste landfill, and two hazardous waste surface impoundment units known as AIOH Land Treatment Unit, CrOH Landfill, CrOH Sand Drying Beds and surface impoundment unit, respectively, which have been used for management of F019 sludge.

Is hereby amended as follows:

By incorporating the modifications on the attached twenty-six (26) pages, incorporating the PCE Degreaser Corrective Action Plan (as amended) into the permit, and replacing pages E-64 and E-65 of the Part B permit application with their new replacements.

Reason for Amendment:

To add zinc to the groundwater protection standard, to modify the Appendix IX analysis well list, to designate the Surface Impoundment Unit as a CAMU, to allow SWMU-18 sediments and Surface Impoundment dam soils to be placed within the CAMU, and to incorporate a VES at the PCE Degreaser Unit.

This Permit Amendment is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached ⁽²⁶⁾twenty-six page(s), which page(s) are a part of this Amendment. This Amendment is hereby made a part of Permit No. HW-087 and compliance with this Amendment is hereby ordered.

Director
Environmental Protection Division

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William L Bonnell Company, Inc. - Newnan, Georgia

SECTION I. GENERAL PERMIT CONDITIONS

I.A. Scope and Effect of Permit

- I.A.1. The Permittee is allowed to treat, store, and dispose of hazardous waste in accordance with the conditions of this permit. Any hazardous waste treatment, storage or disposal not authorized in this permit is prohibited. The Permittee must comply with the Georgia Hazardous Waste Management Act and the Rules for Hazardous Waste Management, Chapter 391-3-11, which Rules include certain portions of the Federal Hazardous Waste Regulations (found at 40 CFR 260-264, 268, 270 and 124). Where a citation to the Federal Regulations is made in this permit, it refers to the specific regulations adopted by EPD.
- I.A.2. The issuance of this permit does not convey any property rights in either real or personal property, nor any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.
- I.A.3. Compliance with this permit does not constitute a defense to any action brought by the Director under Section 18, Emergency Powers, of the Georgia Hazardous Waste Management Act, O.C.G.A. §12-8-75, as amended.
- I.A.4. Nothing in this permit shall be construed to preclude the institution of any legal action under Section 3008 of the Federal Resource Conservation and Recovery Act (RCRA) or under the Georgia Hazardous Waste Management Act, O.C.G.A. §§12-8-81 through 12-8-82, as amended.
- I.A.5. This permit may be modified, revoked and reissued, or terminated for cause as specified in Rule 391-3-11.11(7) and 40 CFR §§270.41, 270.42, 270.43, 270.50(d) and 270.51(a). The filing of a request for a permit modification, revocation and reissuance, or termination or the notification of planned changes or anticipated non-compliance on the part of the Permittee does not stay the applicability of any permit condition.
- I.A.6. The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.

I.B. Management Requirements

- I.B.1. The Permittee shall give notice to the Director as soon as possible of any planned physical alterations or additions to the permitted facility or of any planned changes in the process generating the hazardous waste which changes might affect the performance of the permitted facility.
- I.B.2. The Permittee shall maintain at the facility the following documents and amendments, revisions and modifications to these documents:

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- I.B.2.a. Complete copy of this permit and permit application;
- I.B.2.b. Closure and post-closure plans;
- I.B.2.c. Operating record as required by 40 CFR 264.73;
- I.B.2.d. Inspection schedule log;
- I.B.2.e. Cost estimate for facility closure and post-closure care;
- I.B.2.f. Financial assurance documentation for closure and post-closure care; and
- I.B.2.g. Soil and groundwater sampling and analysis plan.
- I.B.3. All amendments, revisions and modifications to any plan or cost estimates required by this permit shall be submitted to the Director for approval and permit modification as necessary.
- I.B.4. When the Permittee becomes aware that the Permittee failed to submit any relevant facts in the permit application, or submitted incorrect information in a permit application or in any report to the Director, the Permittee shall promptly submit such facts or information.
- I.B.5. The Permittee shall at all times properly operate and maintain all facilities which are installed or used by the Permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of a back-up or auxiliary facility or similar systems only when necessary to achieve compliance with the conditions of this permit.
- I.B.6. The Permittee may not commence treatment, storage or disposal of hazardous waste at any new or modified portion of the facility or corrective action for contaminated groundwater or soil until the Permittee has submitted to the Director by certified mail or hand delivery a letter signed by the Permittee and an independent registered professional engineer stating that the facility has been constructed or modified in compliance with the permit where appropriate; and the Director has inspected the modified or newly constructed facility and finds it is in compliance with the conditions of the permit; or the Director has either waived the inspection or has not within fifteen (15) days notified the Permittee of his or her intent to inspect.
- I.C. Monitoring and Reporting
 - I.C.1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. The method used to obtain a representative sample of the waste to be analyzed must be the appropriate method from Appendix I of 40 CFR Part 261. Laboratory methods must be those specified in the most recent editions of Test Methods for Evaluating Solid Waste: Physical/ Chemical Methods, SW 846 or Standard Methods for the Examination of Water and Wastewater. Sampling and analyses of groundwater samples shall be conducted in accordance with methods and procedures acceptable to the

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Director.

- I.C.2. The Permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports and records required by this permit and records of all data used to complete the application for this permit, including the certification required by Condition I.G., for a period of at least three (3) years from the date of the sample, measurement, report or record. These periods are automatically extended during the course of any unresolved enforcement action regarding this facility and also may be extended at any time at the Director's discretion.
- I.C.3. The Permittee shall maintain records for all groundwater monitoring wells and associated groundwater surface elevations, including the groundwater flow rate, for the active life of the facility and the post-closure period.
- I.C.4. Records of monitoring information shall include:
- I.C.4.a. The date, exact place and time of sampling or measurements;
 - I.C.4.b. The individual(s) who perform the sampling or measurements;
 - I.C.4.c. The date(s) analyses were performed;
 - I.C.4.d. The individual(s) who performed the analyses;
 - I.C.4.e. The analytical techniques or methods used; the method of sample preservation; and quality assurance procedure including method blanks;
 - I.C.4.f. The results of such analyses and measurements presented in table format.
- I.C.5. The Permittee shall report to the Director or his representative orally within twenty-four (24) hours from the time the Permittee becomes aware of any circumstances resulting from the operation and/or maintenance of the hazardous waste management facility (including periods of non-compliance) which may endanger human health or the environment, including but not limited to:
- I.C.5.a. Release of any hazardous waste, hazardous waste constituents or hazardous constituents that may cause an endangerment to public drinking water supplies.
 - I.C.5.b. Release or discharge of hazardous waste, hazardous waste constituents or hazardous constituents or a fire or explosion which could threaten human health or the environment outside the facility.
- The description of the occurrence shall include:
- Name, address, and telephone number of the owner or operator;
 - Name, address, and telephone number of facility;
 - Date, time and type of incident;

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- Name and quantity of materials involved;
 - The extent of injuries, if any;
 - An assessment of actual or potential hazards to the environment and human health outside the facility, where this is applicable; and
 - Estimated quantity and disposition of recovered material that resulted from the incident.
- I.C.6. Within fifteen (15) days of becoming aware of any reportable incident as in Condition I.C.5. which may endanger human health or the environment, the Permittee shall submit a written report of the incident covering the following:
- I.C.6.a. Description of occurrence as in Condition I.C.5;
 - I.C.6.b. Cause of occurrence;
 - I.C.6.c. Period of occurrence, including exact dates and times;
 - I.C.6.d. Time occurrence expected to continue (if not already corrected); and
 - I.C.6.e. Steps taken or planned to reduce, eliminate, and prevent recurrence.
- I.C.7. Reports of compliance or non-compliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than fourteen (14) days following each schedule date.
- I.C.8. The Permittee shall report incidents of non-compliance, other than those described in Conditions I.C.5 and I.C.7, semi-annually on July 15 (covering January 1 through June 30) and January 15 (covering July 1 through December 31). The report shall cover the information requested in Condition I.C.5 for each incident.
- I.C.9. All reports or other information requested by the Director shall be signed and certified according to the requirements in 40 CFR §270.11.
- I.C.10. The Permittee shall immediately notify the Division through the Department of Natural Resources Emergency Operations Center of any spill or release of oil or a hazardous substance as soon as the Permittee knows of the spill or release, as required by O.C.G.A. §12-14-3.
- I.D. Responsibilities
- I.D.1. Right of Entry. The Permittee shall allow the Director of EPD, the Regional Administrator of EPA, and/or their authorized representatives, agents, or employees, upon presentation of credentials and other documents as may be required by law to:
- I.D.1.a. Enter at reasonable times upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

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- I.D.1.b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- I.D.1.c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
- I.D.1.d. Sample or monitor, at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Georgia Hazardous Waste Management Act, any substances or parameters at any location.
- I.D.2. Transfer of Permits. This permit is not transferable to any persons except after notice to the Director. This permit may be transferred to a new owner or operator only if it is modified or revoked and reissued pursuant to 40 CFR §270.40(b) or 40 CFR §270.41(b)(2). Before transferring ownership or operation of the facility, the Permittee shall notify the new owner or operator in writing of the applicable requirements of 40 CFR Parts 264 and 270.
- I.D.3. Duty to Comply. The Permittee shall comply with all conditions of this permit, except to the extent and for the duration such non-compliance is authorized by an emergency permit. Any non-compliance with this permit constitutes a violation of the Georgia Hazardous Waste Management Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
- I.D.4. Duty to Reapply. If the Permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the Permittee must submit a completed application for a new permit at least one hundred eighty (180) days before this permit expires. Pursuant to §270.51, this permit and all conditions herein will remain in effect beyond the permit's expiration date if the Permittee has submitted a timely and complete application for a new permit and, through no fault of the Permittee, the Director has not issued a new permit on or before the expiration date of this permit.
- I.D.5. Need to Halt or Reduce Activity Not a Defense. It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- I.D.6. Duty to Mitigate. The Permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment or human health resulting from non-compliance with this permit.
- I.D.7. Duty to Provide Information. The Permittee shall furnish to the Director, within a reasonable time, any relevant information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with the permit. The Permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.
- I.D.8. Anticipated Non-Compliance. The Permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in non-

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compliance with permit requirements.

I.E. Definitions

For purposes of this permit, terms used herein shall have the same meaning as those in 40 CFR Parts 124, 260-264, and 270, unless this permit specifically provides otherwise; where terms are not defined in the regulations or the permit, the meaning associated with such terms shall be defined by a standard directory reference or the generally accepted scientific or industrial meaning of the term.

- I.E.1. Land Disposal Facility for the purposes of this permit refers to a facility that uses a surface impoundment, landfill, land treatment or waste pile unit to manage or dispose of hazardous waste pursuant to §12-8-66 of the Georgia Hazardous Waste Management Act, as amended, and §3004 of RCRA, as amended.
- I.E.2. Hazardous Constituents for the purpose of this permit are those substances listed in 40 CFR Part 261 Appendix VIII, as revised or superseded.
- I.E.3. Solid Waste Management Unit (SWMU) for the purposes of this permit includes, but is not limited to, any landfill, surface impoundment, waste pile, land treatment unit, incinerator, injection well, tank (including storage, treatment and accumulation tanks), container storage unit, wastewater treatment unit, including all conveyances and appurtenances used in waste management or storm water handling, elementary neutralization unit, transfer station, or recycling unit from which hazardous waste, hazardous waste constituents or hazardous constituents might migrate, irrespective of whether the units were intended for the management of solid and/or hazardous waste.
- I.E.4. Release for the purposes of this permit includes any unpermitted spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment of any hazardous waste, hazardous waste constituents or hazardous constituents.
- I.E.5. Contamination for the purposes of this permit refers to the presence of any hazardous waste, hazardous waste constituents or hazardous constituents in a concentration which exceeds the naturally occurring concentrations of that waste or constituent in the immediate vicinity of the facility (in areas not affected by the facility).
- I.E.6. Corrective Action for prior or continuing releases from solid waste management units as well as for other releases as described in Condition I.E.4. above for the purposes of this permit shall be as specified in 40 CFR §264.101 and may include "corrective action" as provided for in 40 CFR §264.100, and other remedial actions for any environmental media as deemed appropriate by the Director to protect human health or the environment.
- I.E.7. Area of Concern (AOC) for the purposes of this permit includes any area having a probable release of a hazardous waste or hazardous constituent which is not from a solid waste management unit and is determined by the Director to pose a current or potential threat to human health or the environment. Such areas of concern may require investigations and remedial action as required under the Georgia Hazardous Waste

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Management Act, §12-8-60, et seq. and 40 CFR 270.32(b)(2) in order to ensure adequate protection of human health and the environment.

- I.E.8. Corrective Action Management Unit (CAMU) for the purposes of this permit, includes any area within a facility that is designated by the Director under 40 CFR 264 Subpart S, for the purpose of implementing corrective action requirements under §264.101. A CAMU shall only be used for the management of remediation waste pursuant to implementing such corrective action requirements at the facility.
- I.E.9. Temporary Units (TU) for the purposes of this permit includes any temporary tanks and/or container storage areas used solely for treatment or storage of hazardous remediation waste during specific remediation activities. Designated by the Director, such units must conform to specific standards, and may only be in operation for a period of time as specified in this permit.
- I.E.10. Remediation Waste for the purposes of this permit means all solid and hazardous wastes, and all media (including groundwater, surface water, soils, and sediments) and debris, which contain listed hazardous wastes or which themselves exhibit a hazardous waste characteristic, that are managed for the purpose of implementing corrective action requirements under §264.101. Remediation wastes may originate only from within the facility boundary, but may include waste managed in implementing corrective action under §264.101 for releases beyond the facility boundary.
- I.F. Conditions Related to Compliance with General Facility Standards
(40 CFR Part 264 Subparts B, C, D, E, G, H)
- I.F.1. The Permittee must follow the procedures and plans described in detail in the permit application dated July 1992, as amended, which are hereby incorporated by reference and include at least the following:
- Closure Plans, Post-Closure Plans and Financial Requirements, Section I
 - Groundwater Monitoring, Section E
- I.F.2. The following activities must be carried out as prescribed in 40 CFR Part 264 Subparts B, C, D and E, and in accordance with Section I of the permit application:
- Security - §264.14(b) and (c)
 - Repairs and Inspection Log - §264.15(c) and (d)
 - Operating Record - §264.73(a) and Disposition of Records - §264.74
 - Reports - §264.75 and §264.77
- I.F.3. The following activities must be carried out as prescribed in 40 CFR Part 264 Subparts G and H and Section I of the permit application:
- Post-closure care and use of property - §264.117
 - Post-closure plans, amendment of plans - §264.118
 - Notice to local land authority and in deed to property - §264.119
 - Certification of post-closure care - §264.120

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- Financial Assurance for Post-Closure. Continuous compliance with §264.145 must be maintained by the Permittee for the amount of the cost estimate for post-closure and corrective action as required by §264.144 until released by the Director as provided in §264.145(i).

I.F.4. The Permittee must comply with §264.148 whenever necessary.

I.G. Special Conditions Applicable to Entire Facility

I.G.1. Waste Minimization: The Permittee shall be required to certify no less often than annually that the Permittee has a program in place to reduce the volume and toxicity of hazardous waste that he generates to the degree determined by the Permittee to be economically practicable, and the proposed method of treatment, storage or disposal is that practicable method currently available to the Permittee which minimizes the present and future threat to human health and the environment in accordance with 40 CFR §264.73(b)(9).

I.G.2. Land Disposal Restrictions: 40 CFR Part 268 identifies hazardous wastes that are restricted from land disposal and defines those limited circumstances under which an otherwise prohibited waste may continue to be placed on or in a land treatment, storage or disposal unit. The Permittee shall maintain compliance with the requirements of 40 CFR Part 268. Where the Permittee has applied for an extension, waiver or variance under this Part the Permittee shall comply with all restrictions on land disposal under this Part once the effective date for the waste has been reached pending final approval of such application.

SECTION II. Closure and Post-Closure Care [AIOH Land Treatment Unit, CrOH Landfill, CrOH Sand Drying Beds, and Surface Impoundment Unit]

II.A. Unit Identifications:

II.A.1. The Permittee shall provide post-closure care for the hazardous waste land treatment unit at the site identified as "AIOH Land Application (Sludge Mixing) Area" on Exhibit B-2 of the permit application.

II.A.2. The Permittee shall provide post-closure care for the hazardous waste landfill at the site identified as "Chromium Hydroxide Sludge Landfill" on Exhibit B-2 of the permit application.

II.A.3. The Permittee shall provide post-closure care for the closed hazardous waste surface impoundment unit at the site identified as "Former F019 Sandbeds" on Exhibit B-2 of the permit application.

II.A.4. The Permittee shall provide post-closure care for the hazardous waste surface impoundment unit at the site identified as "Surface Impoundment Unit" on Exhibit B-2 of the permit application.

II.B. Waste Identification

The Permittee has disposed of hazardous waste number F019 in the AIOH land treatment unit,

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CrOH landfill, CrOH sand drying beds, and the surface impoundment unit as described in the Part A application dated July 13, 1992.

II.C. Monitoring and Inspection

II.C.1. The Permittee shall follow the inspection schedule as discussed in Section I of the permit application and as required by §264.15(a).

II.C.2. The Permittee shall monitor the AIOH land treatment unit in accordance with the monitoring plan in Section IE-2a(2) of the permit application.

II.D. Closure and Post-Closure

II.D.1. The Permittee shall perform closure of the AIOH land treatment unit, CrOH landfill, and the surface impoundment unit in accordance with the closure plans in Sections IE (as amended), IA (as amended), and IC (as amended) of the permit application, respectively. The Permittee shall commence implementation of closure for these units upon the effective date of this permit.

II.D.2. The Permittee shall perform post-closure for the AIOH land treatment unit in accordance with the post-closure plan in Section IE (as amended) of the permit application and as required by §264.280(c).

II.D.3. The Permittee shall perform post-closure for the CrOH landfill in accordance with the post-closure plan in Section IA (as amended) of the permit application and as required by §264.310.

II.D.4. The Permittee shall perform post-closure for the CrOH sand drying beds and the surface impoundment unit in accordance with the post-closure plans in Section IB and IC (as amended) of the permit application, respectively, and as required by §264.228.

SECTION III. Groundwater Monitoring

III.A. Well Location and Construction

III.A.1. The Permittee shall maintain groundwater monitoring wells MW-1D, MW-1S, MW-2DR, MW-2SR, MW-3S, MW-4SR, MW-6D, MW-6S, MW-7D, MW-7S, MW-8D, MW-8S, MW-9D, MW-9S, MW-12D, MW-12S, MW-13S, MW-15D, MW-15S, MW-16D, MW-16S, MW-17D, MW-17S, MW-19D, MW-19S, MW-21D, MW-21S, MW-23D, MW-23S, MW-24D, MW-26D, MW-26S, MW-27D, MW-27S, MW-28D, MW-28S, MW-29D, MW-29S, MW-31D, MW-36D, MW-36S, MW-37D, MW-37S, MW-39D, MW-40D, MW-42S, MW-43S, MW-44D, MW-44S, MW-45S, MW-46S, MW-47S, OS-1D, OS-1S, OS-2D, OS-2S, OS-4D, OS-4S, OS-5D, OS-5S, OS-6D, OS-7D, OS-8D, BR-1, BR-2, BR-3, BR-5, and BR-6 at the locations on Exhibit E1.1 of the permit application and any additional wells as deemed appropriate by the Director to monitor groundwater conditions within and adjacent to all plumes of contamination.

III.A.2. The Permittee shall maintain MW-13S as the background groundwater monitoring well for

the entire facility as specified in Section E-1a of the permit application.

- III.A.3. Monitoring wells MW-42S, MW-43S, MW-44D, MW-44S, and MW-45S shall define the point of compliance for the AIOH land treatment unit.
- III.A.4. Monitoring wells MW-4SR, MW-17D, MW-17S, and MW-19S shall define the point of compliance for the CrOH landfill.
- III.A.5. Monitoring wells MW-2SR, MW-3S, MW-6S, MW-7D, MW-7S, MW-12S, MW-15S, MW-46S, and MW-47S shall define the point of compliance for the hazardous waste management area (CrOH sand drying beds and surface impoundment unit).
- III.A.6. The Permittee shall install and maintain additional groundwater monitoring wells as necessary to assess changes in the rate and extent of any plume of contamination or as otherwise deemed necessary to maintain compliance with §264.95, §264.97 and §264.100. A plan specifying the design, location and installation of any additional monitoring wells shall be submitted ninety (90) days prior to installation, unless it is deemed appropriate by the Director and the Permittee that the wells should be installed on an accelerated schedule, which at a minimum shall include:
 - III.A.6.a. Well construction techniques including casing depths and proposed total depth of well(s);
 - III.A.6.b. Well development method(s);
 - III.A.6.c. A complete evaluation of well construction materials;
 - III.A.6.d. A schedule of implementation for construction; and
 - III.A.6.e. Provisions for determining the lithologic character, hydraulic conductivity and grain size distribution for the applicable aquifer unit(s) at the location of the new well(s).

III.B. Sampling and Analysis

All samples required by Condition III.C.1.a., III.D.3.b., and III.D.3.c. shall be collected and analyzed in accordance with the techniques and procedures specified in Section E-5b of the permit application or as specified in Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, SW846, whichever procedure is more recent at the time of analysis. The Permittee shall follow guidance provided in the most recent version of the Georgia Modified Standard Method whenever it provides more specificity than EPA Manual SW-846.

III.C. Groundwater Monitoring - AIOH Land Treatment Unit

III.C.1. Detection Monitoring

- III.C.1.a. Beginning no later than sixty (60) days from the effective date of this permit and continuing semi-annually thereafter, the Permittee shall collect and

analyze samples from all wells identified in Condition III.A.2. and III.A.3. in accordance with Section E-6d of the permit application and §264.98(d).

- III.C.1.b. The Permittee shall analyze samples collected pursuant to Condition III.C.1.a. for all indicator parameters specified in Table I.
- III.C.1.c. The Permittee shall determine the groundwater elevation each time samples are collected pursuant to Condition III.C.1.a.
- III.C.1.d. The Permittee shall determine the groundwater flow rate and direction at least annually by measuring the groundwater elevation at all wells identified in Condition III.A.1.

III.C.2. Data Evaluation, Recordkeeping and Response

- III.C.2.a. The Permittee shall, within sixty (60) days of collecting samples pursuant to Condition III.C.1.a., determine whether statistically significant evidence of contamination exists for any indicator parameter specified in Table I as required by §264.98(f).
- III.C.2.b. The determination required by Condition III.C.2.a. shall be made using the statistical procedures described in Section E-6d of the permit application and in accordance with §264.97(g), (h) and (i) and §264.98(f).
- III.C.2.c. The Permittee shall enter all monitoring and analytical data obtained pursuant to Condition III.C. in the operating record as required by §264.97(j) and §264.98(c).
- III.C.2.d. If the Permittee determines pursuant to Condition III.C.2.a. that statistically significant evidence of contamination exists, he shall:
 - Notify the Director in writing within seven (7) days as required by §264.98(g)(1); and
 - Immediately sample the groundwater in the background and POC wells for the AIOH land treatment unit and determine whether constituents in the list of Appendix IX of 40 CFR Part 264 are present, and if so, in what concentration as required by §264.98(g)(2).
- III.C.2.e. Within ninety (90) days of the Permittee's determination pursuant to Condition III.C.2.a. that statistically significant evidence of contamination exists, the Permittee shall submit to the Director an application for a permit modification to establish a compliance monitoring program meeting the requirements of §264.99 as required by §264.98(g)(4).
- III.C.2.f. Within one hundred eighty (180) days of the Permittee's determination pursuant to Condition III.C.2.a. that statistically significant evidence of contamination exists, the Permittee shall submit to the Director an engineering feasibility plan for a corrective action program necessary to meet the

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requirements of §264.100 as required by §264.98(g)(5)(ii) unless §264.98(g)(5)(ii)(A) and (B) apply.

- III.C.2.g. The Permittee need not submit the application required by Condition III.C.2.e. if the Permittee successfully demonstrates pursuant to §264.98(g)(6) that a source other than the regulated unit caused the contamination or that the detection is an artifact caused by an error in sampling, analysis or statistical error.

III.C.3. Permit Modification

If the Permittee determines that the detection monitoring program no longer satisfies the requirements of Condition III.C. and §264.98, the Permittee shall, within ninety (90) days, submit an application for a permit modification to make any appropriate changes to the program. Such application shall be made in accordance with §270.41 and §270.42.

III.D. Groundwater Monitoring - CrOH Landfill and Hazardous Waste Management Area (CrOH Sand Drying Beds and Surface Impoundment Unit)

III.D.1. Groundwater Protection Standard

- III.D.1.a. The groundwater protection standard, as required under §264.92, shall consist of Table II which lists the hazardous constituents and their respective concentration limits required under §264.93 and §264.94, respectively.
- III.D.1.b. The groundwater protection standard applies to all hazardous waste or hazardous constituent releases as deemed appropriate by the Director to protect human health and the environment.

III.D.2. Compliance Period

The compliance period shall be defined as continuing until the groundwater protection standard has not been exceeded for a period of three (3) consecutive years and corrective action, as required under §264.100 has been terminated, as required by §264.96(c). The compliance period shall begin with the effective date of this permit.

III.D.3. Groundwater Monitoring

- III.D.3.a. The Permittee shall collect, preserve and analyze all groundwater samples in accordance with Condition III.B.
- III.D.3.b. Beginning no later than thirty (30) days from the effective date of this permit, and continuing quarterly through the compliance period, the Permittee shall determine the concentration of each hazardous constituent specified in Table II by collecting and analyzing samples from each compliance point monitoring well identified in Condition III.A.4., III.A.5., and III.A.6.

- III.D.3.c. Samples shall be obtained at least annually from all wells within and adjacent to all plumes of contamination and analyzed. Samples from monitoring wells MW-2DR, MW-6D, MW-9D, MW-9S, MW-12D, MW-15D, MW-21D, MW-21S, MW-24D, MW-26D, MW-29D, MW-31D, MW-36D, MW-39D, MW-40D, OS-2D, OS-5D, OS-6D, OS-7D, OS-8D, BR-1, BR-3, and BR-6 shall be analyzed for the VOC constituents listed in Table II.
- III.D.3.d. The groundwater monitoring program must include a determination of groundwater surface elevation each time groundwater is sampled pursuant to III.D.3.b., and III.D.3.c.
- III.D.3.e. Beginning one (1) year from the effective date of this permit, the Permittee must analyze samples from the compliance point wells in accordance with Section E-8e(2)(c) of the permit application, plus any additional wells specified by the Director for all constituents in Appendix IX of §264 at least annually to determine whether additional hazardous constituents are present in the uppermost aquifer, and if so, at what concentration, pursuant to procedures in §264.98(f). The Appendix IX results must be submitted within 120 days of the sampling. If the Permittee finds Appendix IX constituents in the groundwater that are not identified in Table II, then the Permittee may resample within one (1) month and repeat the analysis. If the second analysis confirms the presence of new hazardous constituents, then the Permittee must report the concentrations of these additional hazardous constituents to the Director within seven (7) days of the second analysis and add them to Table II. If the Permittee chooses not to resample, then the Permittee must report the concentrations of those additional hazardous constituents to the Director within seven (7) days after completion of the initial analysis and request that these hazardous constituents be added to Table II.

III.D.4. Groundwater Data Evaluation and Reporting

- III.D.4.a. The Permittee shall evaluate data collected under Condition III.D.3.b., and III.D.3.c. above for compliance with the groundwater protection standard established under Condition III.D.1.
- III.D.4.b. The Permittee shall utilize the groundwater elevation data generated under Condition III.D.3.d. to determine the groundwater flow rate and direction in the uppermost aquifer as required by §264.99(e).
- III.D.4.c. The Permittee shall submit to the Director a semi-annual groundwater monitoring report transmitting the data from the two preceding quarterly samplings conducted under Condition III.D.3.b., the preceding annual sampling under Condition III.D.3.c., and the preceding annual sampling conducted under Condition III.D.3.e., as applicable. The report shall clearly indicate those hazardous constituents which exceed the groundwater protection standard established under Condition III.D.1., provide a comparison with previous monitoring data, and include a discussion of trends toward improvement or degradation of groundwater quality. The first semi-annual report shall be due

270 days after permit issuance and subsequent reports due at six (6) month intervals thereafter. The assessment of groundwater flow rate and direction under Condition III.D.4.b. shall accompany each report.

- III.D.4.d. The Permittee shall enter all monitoring, testing, and analytical data obtained pursuant to Condition III.D. in the operating record, as required by §264.73(b)(6).

III.D.5. Corrective Action Program

- III.D.5.a. The Permittee shall implement the corrective action program as required under §264.100 and as described in the Feasibility and Corrective Action Plan dated March 1993 (as amended) for those hazardous constituents that exceed the groundwater protection standard in Table II.
- III.D.5.b. The Permittee shall conduct a corrective action program as to remove or treat in place any hazardous constituents in the groundwater protection standard (Condition III.D.1.) that exceed concentration limits in Table II in groundwater:
- III.D.5.b.1. Between the point of compliance and the downgradient facility property boundary as required under §264.100(e)(1); and
- III.D.5.b.2. Beyond the facility boundary as required under §264.100(e)(2), unless the Permittee can demonstrate to the satisfaction of the Director that:
- i. despite the Permittee's best efforts, the Permittee was unable to obtain the necessary permission to undertake such action; or
 - ii. such action is not necessary to protect human health or the environment.
- III.D.5.c. The Permittee is not relieved of all responsibility to clean up a release that has migrated beyond the facility's boundary where off-site access is denied as required under §264.100(e)(2).
- III.D.5.d. The Permittee shall ensure that the corrective action program will function as designed and planned in the Feasibility and Corrective Action Plan dated March 1993 (as amended) and in accordance with any subsequent revisions, modifications, or changes to the original plan. Any measures taken to meet this Condition shall be reported in the semi-annual report required by Condition III.D.4.c.
- III.D.5.e. The corrective action system must be installed and operated in such a manner as to preclude further migration of the plume offsite.
- III.D.5.f. The corrective action system must be operated in such a manner as to mitigate the release of any hazardous waste, hazardous waste constituents, or hazardous constituents to the environment.
- III.D.5.g. The Permittee shall treat, store, and dispose of all contaminated groundwater

and soil materials in accordance with all applicable federal, state and local laws.

- III.D.5.h. If the groundwater protection standards are met during the compliance period, the Permittee must continue corrective action to the extent necessary to ensure that the groundwater protection standard is not exceeded. Corrective action must continue until the groundwater protection standard has not been exceeded for three (3) consecutive years as required under §264.100(f).

III.D.6. Permit Modification

- III.D.6.a. If the Permittee at any time determines that the corrective action program no longer satisfies the requirements of 40 CFR 264.100 or Condition III.D. for releases of hazardous waste constituents, hazardous waste or hazardous constituents that originate from the regulated unit, he must within ninety (90) days submit an application for a permit modification to make any appropriate changes in the program.
- III.D.6.b. If the Permittee meets or exceeds the requirements of §264.100 and meets the groundwater protection standard at the point of compliance for three (3) consecutive years, the Permittee may submit an application for a permit modification pursuant to §270.42 to establish an alternate groundwater monitoring program.

III.D.7. Duty of Permittee

The Permittee shall assure that groundwater monitoring and corrective action measures necessary to achieve compliance with the Groundwater Protection Standard under §264.92 are taken during the compliance period.

SECTION IV. CORRECTIVE ACTION FOR SOLID WASTE MANAGEMENT UNITS AND AREAS OF CONCERN

IV.A. Applicability

The requirements of this Section apply to the determination of the need for subsequent implementation of corrective action for releases from all solid waste management units (SWMUs) and areas of concern (AOCs) contained within the facility property boundary, as required by §264.101(a), and those extending beyond the facility property boundary, as required by §264.101(c). The requirements of this Section apply specifically to the following SWMUs and AOCs identified by the RCRA Facility Assessment Report dated September 30, 1990:

IV.A.1. The SWMUs and AOCs identified in Appendix A-1 which require further investigation.

IV.A.2. The SWMUs and AOCs identified in Appendix A-2 which require no further investigation at this time.

IV.A.3. Any additional SWMUs or AOCs discovered after the date of issuance of this permit.

IV.B. Notification and Assessment Requirements for Newly Identified SWMUs and AOCs

- IV.B.1 Within fifteen (15) days of the Permittee's discovery of any SWMUs or AOCs under Condition IV.A.3., the Permittee shall notify the Director in writing of such discovery.
- IV.B.2. The Director shall notify the Permittee in writing of the discovery of any SWMUs or AOCs under Condition IV.A.3.
- IV.B.3. Within sixty (60) days of the Permittee's discovery pursuant to Condition IV.B.1. or within sixty (60) days of receipt of the Director's notification under Condition IV.B.2., the Permittee shall submit to the Director the following information for each SWMU or AOC:
 - IV.B.3.a. Location on a topographic map of appropriate scale such as required under 40 CFR 270.14(b)(19);
 - IV.B.3.b. Designation of type and function;
 - IV.B.3.c. General dimensions, capacities and structural description [supply as available plan(s)/drawing(s)];
 - IV.B.3.d. Dates of operation;
 - IV.B.3.e. Specification of all wastes that have been managed at/in the SWMU or AOC to the extent available; and
 - IV.B.3.f. All available information pertaining to any release of hazardous waste or hazardous constituents (to include groundwater data, soil analyses, air, and/or surface water data).
- IV.B.4. The Director shall review the information submitted pursuant to Condition IV.B.3. and notify the Respondent in writing as to the need for further investigation, interim measures/stabilization requirements, and/or corrective action as required by Condition IV.D., IV.E. or IV.F.

IV.C. Notification Requirements for Newly Discovered Releases at Previously Identified SWMUs and AOCs

- IV.C.1. Within thirty (30) days of the Permittee's discovery of a previously unidentified release(s) from any SWMU or AOC identified under IV.A., the Permittee shall notify the Director in writing of such discovery.
- IV.C.2. The Director shall notify the Permittee in writing of the discovery of any previously unidentified release(s) from any SWMU or AOC previously discovered under Condition IV.A.
- IV.C.3. Within ninety (90) days of the date of the Permittee's discovery under Condition IV.C.1. or within ninety (90) days of the date of receipt of the Director's notification under Condition IV.C.2., the Permittee shall submit to the Director a RCRA Facility Investigation Workplan pursuant to Condition IV.E.

IV.D. Interim Measures (IM)

- IV.D.1 The Permittee may conduct interim measures to contain, remove or treat contamination resulting from releases from any SWMU or AOC as necessary to protect human health and the environment. Such interim measures may be conducted concurrently with any investigations required by this permit.
- IV.D.2. Within thirty (30) days of the Permittee's determination that interim measures are necessary, or within thirty (30) days of receipt of the Director's written notice that interim measures are necessary, the Permittee shall submit to the Director an Interim Measures (IM) Workplan. The IM Workplan shall describe all measures necessary to contain, remove or treat contamination resulting from releases from any SWMU or AOC. The IM Workplan shall include a schedule of implementation which includes intermediate milestones beginning with the Permittee's receipt of the Director's written approval of the IM Workplan and continuing through submission of the IM Report required by Condition IV.D.5.
- IV.D.3. Upon receipt of the Director's written approval of the IM Workplan, the Permittee shall implement the Workplan in accordance with the schedule of implementation contained therein.
- IV.D.4. The Permittee shall provide written notice to the Director as soon as possible of any planned changes, reductions or additions to the interim measures.
- IV.D.5. The Permittee shall submit an IM Report in accordance with the schedule of implementation contained in the approved IM Workplan. The IM Report shall describe all interim measures taken to contain remove or treat contamination resulting from releases from any SWMU or AOC. The IM Report shall also provide a summary of all data or other information obtained during implementation of the IM Workplan and a summary of the effectiveness of the interim measures in achieving the objective of Condition IV.F.

IV.E. RCRA Facility Investigation (RFI)

- IV.E.1. Within ninety (90) days of the effective date of this permit for any SWMU or AOC identified pursuant to Condition IV.A.1. and within ninety (90) days of the date of receipt of the Director's written notice pursuant to Condition IV.B.4. and/or IV.C.3., the Permittee shall submit to the Director a RCRA Facility Investigation (RFI) Workplan.
- IV.E.2. The RFI Workplan shall provide a description of the specific actions necessary to determine the nature and extent of releases from any SWMU and AOC identified by Condition IV.A.1., IV.B.4. and IV.C.3., including potential migration pathways for those releases (e.g. air, land, surface water, and groundwater), actual or potential receptors and applicable background concentrations. The Permittee must provide sufficient justification that migration through a potential pathway is not likely if a potential migration pathway associated with a release is not included in the Workplan. Such deletions are subject to the approval of the Director.
- IV.E.3. The RFI Workplan shall include a schedule of implementation which includes intermediate milestones beginning with the Respondent's receipt of the Director's written approval of the RFI Workplan and continuing through submission of the RFI Report required by Condition

IV.E.4. Upon approval by the Director the Permittee shall implement the RFI Workplan in accordance with the schedule contained in the approved Workplan.

IV.E.4. The Permittee shall submit a RFI Report in accordance with the schedule of implementation contained in the approved RFI Workplan. The Report shall provide a summary of all activities undertaken during the RFI to implement the approved Workplan. The Report shall provide a complete description of the nature and extent of all releases evaluated during the RFI including sources, migration pathways, actual or potential receptors and applicable background concentrations. The RFI Report shall address all releases which extend beyond the facility property boundary unless the Permittee demonstrates to the Director's satisfaction that, despite the Permittee's best efforts, the Permittee was unable to obtain permission to undertake actions required by the Workplan, or such action is not necessary to protect human health or the environment.

IV.E.5. The Director shall review the RFI Report required under Condition IV.E.4. and notify the Permittee in writing of the need for further investigation and/or corrective action as required by §264.101(a) and §264.101(c).

IV.E.6. Within ninety (90) days of the Permittee's receipt of the Director's written notice for further investigation referenced in Condition IV.E.5., the Permittee shall submit an addendum to the RFI Workplan to the Director. The addendum shall provide a description of the investigation activities that will be conducted to further define the nature and extent of releases from any SWMU and/or AOC.

IV.F. Corrective Action

IV.F.1. Within ninety (90) days of the Permittee's receipt of the Director's written notice for corrective action referenced in Condition IV.E.5., the Permittee shall submit a Corrective Action Plan (CAP) to the Director. The CAP shall provide a description of the corrective measures to be taken with regard to releases from any SWMU and AOC identified in Condition IV.E.1. The CAP shall be submitted as a request for permit modification in accordance with §270.41 and §270.42.

IV.F.2. The CAP shall include a schedule of implementation with intermediate milestones beginning with the issuance of the permit modification requested pursuant to Condition IV.F.1. and continuing through the post-closure period.

IV.F.3. The CAP shall include a demonstration of financial responsibility for completing such corrective action as required by §264.101(b).

IV.F.4. The Permittee shall conduct corrective action at any SWMU and/or AOC referenced in Condition IV.E.5. in accordance with the CAP(s) listed in Appendix A-3 of this permit.

IV.F.5. The Permittee shall manage any CAMU designated by the Director, in accordance with §264.552, according to the CAMU Management Plan(s) listed in Appendix A-4 of this permit.

IV.F.6. The Permittee shall conduct a corrective action program as to remove or treat in place any hazardous waste, hazardous waste constituents, or hazardous constituents that have been released to groundwater or surface water that exceed the Maximum Contaminant Levels

(MCLs) established by the Safe Drinking Water Act. If an MCL does not exist for a hazardous constituent the water protection standard shall be background concentrations. The Permittee shall also conduct a corrective action program as to remove or treat in place any hazardous constituents that have been released to soils and sediments that exceed background concentrations.

IV.F.6.a. Within the facility property boundary; and

IV.F.6.b. Beyond the facility property boundary, unless the Permittee can demonstrate to the satisfaction of the Director that:

1. despite the Permittee's best efforts, the Permittee was unable to obtain the necessary permission to undertake such action; or
2. such action is not necessary for the protection of human health or the environment.

IV.F.7. The Permittee is not relieved of all responsibility to clean up a release that has migrated beyond the facility's boundary where off-site access is denied.

IV.F.8. The Permittee shall ensure that the corrective action program(s) and CAMU management program(s) listed in Appendix A-3 and Appendix A-4 function as designed and planned.

IV.F.9. The corrective action and CAMU management programs must be installed and operated in such a manner as to preclude contaminant migration offsite.

IV.F.10. The corrective action and CAMU management programs must be operated in such a manner as to mitigate the release of any hazardous waste, hazardous waste constituents, or hazardous constituents to the environment.

IV.F.11. The Permittee shall treat, store, and dispose of all contaminated groundwater, surface water, sediments, and soil materials in accordance with all applicable federal, state and local laws.

IV.G. Schedule of Compliance

IV.G.1. All plans and reports required by this Section are subject to the approval of the Director prior to implementation. The Permittee shall revise all submittals as specified by the Director.

IV.G.2. For any schedule of implementation required by this Section, if the time required to complete any interim activity is more than one year, the schedule shall specify interim dates for the submission of reports of progress towards satisfaction of the interim requirements.

IV.G.3. Extensions of the due date for the submittal of any plan or report may be granted by the Director based on the Permittee's demonstration that sufficient justification for the extension exists.

IV.G.4. Upon approval by the Director, all plans and reports shall be enforceable as conditions of this permit.

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IV.G.5. If at any time the Permittee determines that any plan or report required under this Section no longer satisfies the requirements of this permit or §264.101, the Permittee must submit an amended plan or report to the Director within thirty (30) days of such determination.

IV.G.6. If at any time the Director determines that any plan or report required under this Section no longer satisfies the requirements of this permit or §264.101, the Director will so notify the Permittee in writing and request that an amended plan or report be submitted in accordance with a schedule to be specified.

IV.H. Permit Modification

IV.H.1. If the Permittee at any time determines that the corrective action plan(s) and/or CAMU management plan(s) listed in Appendix A-3 and Appendix A-4 no longer satisfies the requirements of 40 CFR 264.101 or Condition IV.F. for releases of hazardous waste, hazardous waste constituents, or hazardous constituents that originate from a SWMU, AOC, or CAMU, the Permittee must within ninety (90) days of such determination submit an application for permit modification pursuant to §270.42, to the Director, in order to make any appropriate changes to the plan(s).

IV.H.2. If the Permittee meets or exceeds the requirements of §264.101 and Condition IV.F.6. for three consecutive years for any SWMU, AOC, or CAMU, the Permittee may submit an application for permit modification pursuant to §270.42 to the Director to discontinue the active portion of the corrective action and/or CAMU management program(s) and to establish an alternate groundwater monitoring program for that unit. For any CAMU which includes regulated unit(s), the Permittee must also meet the requirements for regulated unit found in 264.100, Condition III.D.5., and the groundwater protection standard listed in Table II.

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APPENDIX A-1

List of Solid Waste Management Units and Areas of Concern requiring an RFI.

<u>SWMU/AOC No.</u>	<u>Description</u>
SWMU-1	- Calcium Aluminate Landfill
SWMU-7	- Accumulation Tank for Waste Solvent
SWMU-10	- Paintline Wastewater Treatment System and All Piping
SWMU-11	- Anodizing Wastewater Treatment System and Piping Upstream of Settling Pond
SWMU-12	- Truck Shop Sump plus Piping and Trench
SWMU-13	- Truck Shop Pipe Discharge
SWMU-14	- Truck Shop Parking Area
SWMU-15	- Area Under Truck Shop Oil/Water Separator
SWMU-16	- Storage Yard Behind Maintenance plus Ditch and Drum Storage
SWMU-17	- Drum Crusher Area
SWMU-18	- Storm Sewer System that Conducted Hydraulic Oils, Acids, Caustics, Solvents, including Ditches
SWMU-19	- Area West of Die Shop
SWMU-20	- Discharges from Fabrication Building
SWMU-23	- Inactive Oil/Water Separator
SWMU-24	- Reported Trash Dump
SWMU-25	- Reported Trash Dump near Chromium Hydroxide Landfill
SWMU-26	- Demolition/Construction Debris Disposal Area
SWMU-27	- Acid Spill Area near Phosphoric Acid Storage
SWMU-28	- Scrubbers Serving Fabrication Building
SWMU-29	- Steam Cleaner Area
SWMU-31	- Paintline Spill Area
SWMU-35	- Sink Frame Building Area
SWMU-37	- Fabrication Building Cooling Tower Discharge Ditch
SWMU-39	- Former Employee Parking Lot
SWMU-42	- Cooling Tower Areas
SWMU-43	- Former Die Shop Waste Oil/Solvent Area
SWMU-44	- Chromium Hydroxide Sandbed Closure Stockpile Area
SWMU-45	- Container Cleaner Unit
SWMU-46	- Solvent Tank Farm
SWMU-47	- Underground Storage Tank
SWMU-48	- Paintline Pit
SWMU-49	- PCE Degreasing Unit
SWMU-50	- F019 Spill Area
SWMU-51	- Oil Changing Area
SWMU-52	- Pipe Disposal Area

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APPENDIX A-2

List of Solid Waste Management Units or Areas of Concern that require no further action at this time.

<u>SWMU/AOC No.</u>	<u>Description</u>
SWMU-8	- Temporary Drum and Roll-Off Container Storage Area
SWMU-9	- Roll-Off Container Storage Area, Sludge Tank and Filter Press
SWMU-21	- Former Oil/Water Separator
SWMU-22	- Active Oil/Water Separator
SWMU-30	- Battery Recharge Stations
SWMU-32	- Old Melter Areas
SWMU-33	- Forklift Shop Oil Sump
SWMU-34	- Exterior Trash Containers
SWMU-36	- Sump Below Paint Booths
SWMU-38	- Discharge Areas from Sinks
SWMU-40	- Buffing Dust Area in Fabrication Building
SWMU-41	- Paint Hook Burn-Off Oven

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APPENDIX A-3

List of Solid Waste Management Units or Areas of Concern that require corrective action at this time.

<u>SWMU/AOC No.</u>	<u>Corrective Action Plan</u>
SWMU-49	- PCE Degreaser CAP dated November 1994 and revised March 1995

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APPENDIX A-4

List of Corrective Action Management Units and their associated management plans.

CAMU No.	Description	Contents	CAMU Management Plan
CAMU-1	Surface Impoundment Unit	Stream sediment from SWMU-18. Surface Impoundment Dam soils outside of the closure boundary.	Sections E and IC of the approved post-closure care permit application.

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TABLE I: INDICATOR MONITORING PARAMETERS

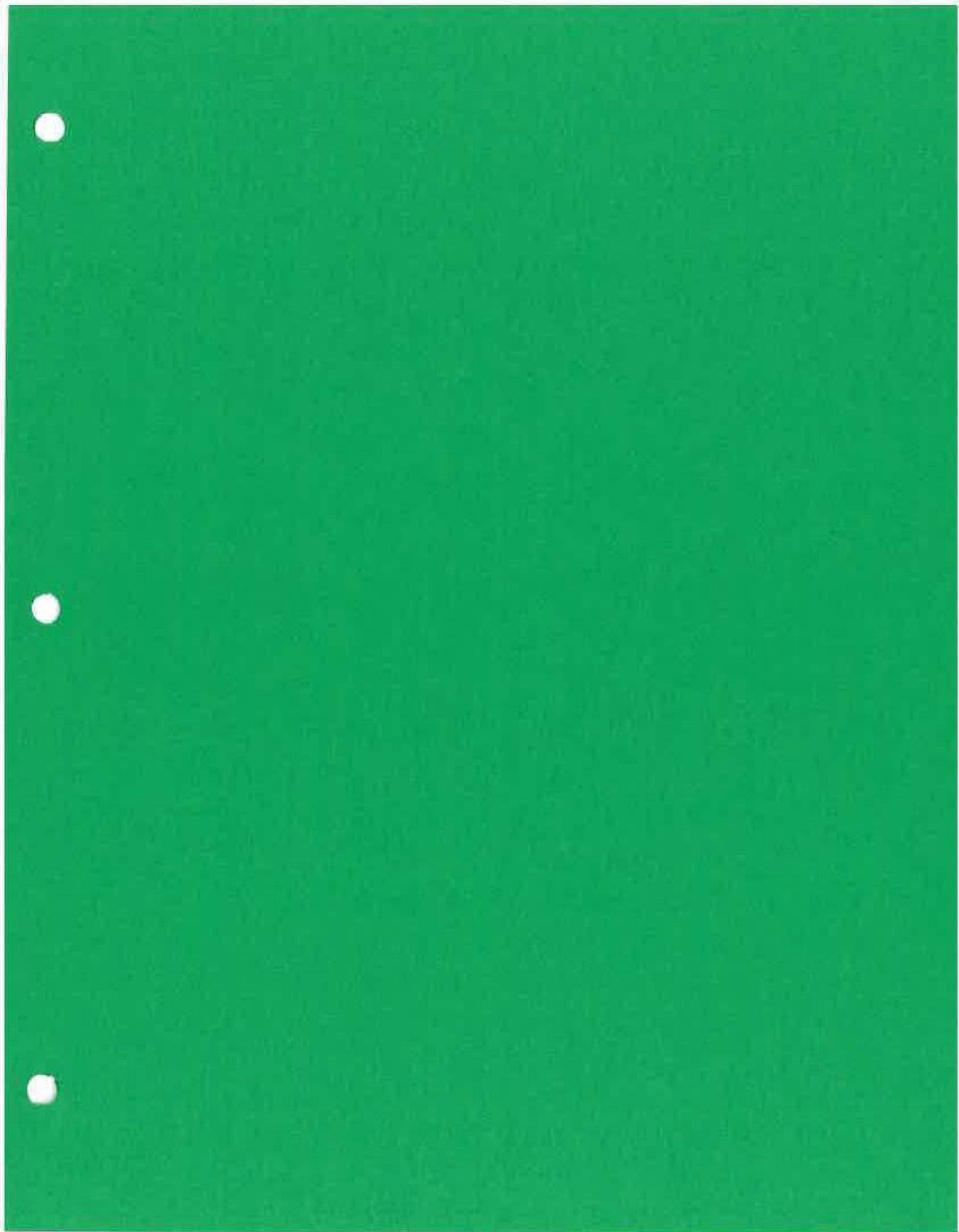
Indicator Parameters/Hazardous Constituents

specific conductance
total organic carbon
total organic halogens
pH
barium
cadmium
chromium
lead
nickel
zinc
1,1 Dichloroethylene
ethylbenzene
tetrachloroethylene (PCE)
toluene
trichloroethylene (TCE)
total xylene
vinyl chloride

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TABLE II: GROUNDWATER PROTECTION STANDARD

<u>HAZARDOUS CONSTITUENTS</u>	<u>CONCENTRATION LIMITS(mg/l)</u>
<u>metals</u>	
barium	1.00
cadmium	0.01
chromium	0.05
lead	0.05
nickel	0.02
zinc	Background
<u>VOCs</u>	
ethylbenzene	0.002
tetrachloroethylene (PCE)	0.002
toluene	0.002
trichloroethylene (TCE)	0.002
total xylene	0.005



APPENDIX B

DAILY PROJECT REPORTS

TIME	SUMMARY OF ACTIVITIES			
	Reported to BARNELL TO WORK WITH FOUR SEASONS ON SURFACE IMPOUNDMENT AND ASSIST STEVE JACKSON AND DAVID RADZIETA OF EMCON WITH GROUNDWATER DEWATERING. DRILL RIGS WERE STILL ON SITE COMPLETING FINAL TWO OF SEVEN ADDITIONAL 6" WELLS THAT WERE PLACED AROUND SETTLING POND. IT APPEARS FLOW RATES ON ALL SEVEN WELLS WILL BE ONE GPM OR LESS. AS WE BEGAN TO GET THEM ON LINE AND DISCHARGING TO LOW POINT COLLECTOR. IT WAS DISCOVERED THAT LOW POINT COLLECTOR PUMP WAS SHUT OFF DUE TO WORK BEING DONE TO CARBON PADISTEX. TERRY SNEEL WAS MADE AWARE OF THIS SO IT COULD BE PUT BACK ON LINE ASAP. WE ALSO DISCOVERED EXCESSIVE WATER FLOWING THROUGH A DISCHARGE PIPE THAT NORMALLY HAS VIRTUALLY NO FLOW. (WE TRACED THIS PROBLEM TO A BREAK IN THE PIPE THAT WAS ACCEPTING RUN OVER WATER FROM THE LOW POINT COLLECTOR. SNIPPED THE WATER AND DELIVERED TO CAB FOR 24 HOUR PCE & TCE TESTING.			
Time In	Time Out	Visitor Name	Company	Purpose of Visit
Minutes	Person Called	Phone Number	Purpose of Call	

PROJECT DAILY REPORT

Location: <u>NEWMAN</u>	Personnel on Site: _____	Client: <u>BARNELL</u>
Date: <u>8-18-93</u>	_____	Project: <u>GROUNDWATER DEWATERING</u>
Mileage Start: _____	_____	Project # <u>2040, 009, 92</u>
Mileage End: _____	_____	Supervisor: <u>DAVE BIXNATOR</u>
Weather: <u>P.C. HOT</u>	Lodging & Location: _____	Title: <u>ENGINEER</u>
Hrs. Lost to Weather: _____	_____	
Equipment: _____	Meals: _____	
_____	_____	
_____	_____	



EMCON
SOUTHEAST

TIME	SUMMARY OF ACTIVITIES			
	Returned to Newnan to work with four seasons on surface improvement and assist with inspection of lined with groundwater decontamination. We decided to place plug to sink 6" wells to try and improve water flow, especially with wells on rim between settling pond and polishing pond. Prior construction was pouring concrete for manways on wells today. Electricians are still wiring collection system and Steve and I worked on assembling pumps for collection system. Terry Swell requested a meeting at 1:30 today with all contractors. Brian from Norcross office came down to attend and brought soil testing equipment. Dave Buchalter also came down to attend. It seems the decontamination system is very slow and we are having a problem with too much groundwater in the settling pond. It was decided to install sump pump in settling pond and add 30" wide clay shelf to allow four seasons to start placing clay.			
Time In	Time Out	Visitor Name	Company	Purpose of Visit
		Terry requested analysis of temporary wells around settling pond for PCE & TCE. Will pull these Monday.		
Minutes	Person Called	Phone Number	Purpose of Call	

PROJECT DAILY REPORT

Location: <u>Newnan</u>	Personnel on Site: _____	Client: <u>Bornwell</u>
Date: <u>8-20-93</u>		Project: <u>Groundwater Decontamination</u>
Mileage Start: _____		Project # <u>2040.009.92</u>
Mileage End: _____		Supervisor: <u>Dave Buchalter</u>
Weather: <u>P.C. Hot</u>	Lodging & Location: _____	Title: <u>Engineer</u>
Hrs. Lost to Weather: _____		
Equipment: _____	Meals: _____	



EMCON
SOUTHEAST

TIME	SUMMARY OF ACTIVITIES			
	Reported to Bonnell to work with four sensors on surface impoundment (creek and assist flow) with Emcon with groundwater monitoring. Pumping Creek was adding soil to the well, on the dam to make them flush so I requested they extend 2" pipe conduct to protect garden hose. A Contractors Meeting was held at 10:00am this morning to discuss bottom of settling pond again. Bill H. & Dave R. from Norcross Office along with Dave B from Atlanta Office attended. Since it seems likely the bottom of the settling pond is not going to stabilize it was discussed either placing clean or stone with mat on the bottom. Seemed to be a lot of dissention in the meeting between Emcon and Four Seasons. A stand pipe will be placed in settling pond to pump excessive water out. Sampled temporary areas around settling pond holding as settling in settling pond for PCC & TCE.			
Time In	Time Out	Visitor Name	Company	Purpose of Visit
Minutes	Person Called	Phone Number	Purpose of Call	

PROJECT DAILY REPORT

Location: <u>Newnan</u>	Personnel on Site: _____	Client: <u>Bonnell</u>
Date: <u>8-23-93</u>	_____	Project: <u>Groundwater Decontamination</u>
Mileage Start: _____	_____	Project # <u>2040.009.92</u>
Mileage End: _____	_____	Supervisor: <u>Dave B. MacRae</u>
Weather: <u>P.C. Hot</u>	Lodging & Location: _____	Title: <u>Engineer</u>
Hrs. Lost to Weather: _____	_____	
Equipment: _____	Meals: _____	
_____	_____	
_____	_____	



EMCON
SOUTHEAST

TIME	SUMMARY OF ACTIVITIES			
	REPORTED TO BONWELL TO WORK WITH FOUR SENSORS ON SURFACE THROUFASTMENT CLOSURE AND ASSIST STEVE JACKSON OF EMCON WITH GROUNDWATER DEWATERING SYSTEM. WE WORKED WITH FOUR SENSORS AND PACED CONSTRUCTED ON INSTALLING 36" DIA. SUMP IN SETTING POND TO ATTEMPT TO FURTHER DEWATER GENERAL AREA. ONE PUMP WAS INSTALLED AND SEEMED INADEQUATE SO AN ADDITIONAL PUMP WAS INSTALLED TO TRY AND CATCH UP WITH WATER FLOWING INTO SETTING POND. WE ESTIMATE BETWEEN 12 & 14 GPM BEING PUMPED FROM SETTING POND. SONNY MORGAN WAS ON SITE TODAY TO SET GRID STAKES FOR SETTING POND. THEY WERE INITIALLY SET AT 50' INTERVALS AND I REQUESTED HE SET THEM AT 25' INTERVALS. PINS WERE SET IN ADDITION TO STAKES IN CASE STAKES GET KNOCKED DOWN. AT TERRY'S REQUEST I SAMPLED SPRING IN SETTING POND FOR RESIDUE CHLORINE. THERE IS A POSSIBILITY THE SPRINGS ARE BEING FED BY LEAKING WATER PIPES. AN INVESTIGATION OF THIS POSSIBILITY HAS BEEN LAUNCHED.			
Time In	Time Out	Visitor Name	Company	Purpose of Visit
Minutes	Person Called	Phone Number	Purpose of Call	

PROJECT DAILY REPORT

Location: <u>NEWMAN</u>	Personnel on Site: _____	Client: <u>BONWELL</u>
Date: <u>8-24-93</u>	_____	Project: <u>SURFACE IMP. CLOSURE</u>
Mileage Start: _____	_____	Project # <u>2040.009.93</u>
Mileage End: _____	_____	Supervisor: <u>DAVE BURCHARDT</u>
Weather: <u>PC. HOT</u>	Lodging & Location: _____	Title: <u>ENGINEER</u>
Hrs. Lost to Weather: _____	_____	
Equipment: _____	Meals: _____	
_____	_____	
_____	_____	



EMCON
SOUTHEAST

TIME	SUMMARY OF ACTIVITIES			
	REPORTED TO BOWWELL TO WORK WITH JACK JACKSON'S INSURANCE IMPERMABLE CLOSURE AND ASSIST STEVE JACKSON OF EMCON WITH GROUNDWATER ULTIMATE LIME SYSTEM. COOKED FILTER CAKE: TRYING TO TRY THIS DETERMINE SOLID CONTENT. SHOULD BE DONE IN CONTROLLED TEMP. OPEN BUT I DID IT ON SURFACE PLATE. SAMPLE FC-2 FROM 8/20/93 APPEARS TO HAVE 50.7% SOLIDS AND FC-3 TAKEN TODAY APPEARS TO HAVE 24.7% SOLIDS. NEED TO GO OVER PROCEDURE FOR CANNING SOLIDS WITH TERRY MAYS IN THE LAB. STEVE BEGAN INSTALLING PUMPS IN WELLS TODAY. WE FILLED CARBON DRAINS WITH WATER TO PREPARE FOR GETTING THEM ON LINE TOMORROW. DAVE PETER OF EMCON NORTHEAST OFFICE WAS IN TODAY AND WENT OVER SOME THINGS WITH ME. HE SAID HE WILL SURVEY TERRY MAYS TO COME DOWN ONE DAY AND SPEND THE DAY GOING OVER PROCEDURES WITH ME. THIS SAVED ME A LOT. SONNY MORELAND FINISHED SURVEYING IN GARD TODAY AND WENT OVER SITE WITH ME. FILTER PRESS, BARGE, TWO PUMPS			
Time In	Time Out	Visitor Name	Company	Purpose of Visit
		DAVE RICHER	EMCON	REVIEWING
Minutes	Person Called	Phone Number	Purpose of Call	

PROJECT DAILY REPORT

Location: <u>NEWMAN</u>	Personnel on Site: _____	Client: <u>BOWWELL</u>
Date: <u>8/25/93</u>	_____	Project: <u>SURFACE IMP. CLOSURE</u>
Mileage Start: _____	_____	Project #: <u>2040.009.92</u>
Mileage End: _____	_____	Supervisor: <u>DAVE BOWWELL</u>
Weather: <u>P.C. HOT</u>	Lodging & Location: _____	Title: <u>ENGINEER</u>
Hrs. Lost to Weather: _____	_____	
Equipment: _____	Meals: _____	
_____	_____	
_____	_____	



EMCON
SOUTHEAST

TIME	SUMMARY OF ACTIVITIES			
	REPORTED TO BANNER TO WORK WITH FOUR SEASONS ON SURFACE IMPROVEMENT CLOSURE AND ASSIST STEVE JACKSON OF EMCON WITH GROUNDWATER Dewatering SYSTEM. FOUR SEASONS OPERATED BARGE AND CONTINUED TO PRODUCE FILTER CAKE FROM THREE FILTER PRESSES. THEY OPERATED TWO EXCAVATORS STABILIZING SETTLING POND BOTTOM. HAD THEM TRENCH FROM BOTTOM PUDDLES OF WATER TO SUMP TO SPEED UP WATER EXCAVATION FROM SETTLING POND. GEORGE INDICATES HE WILL HAVE ANOTHER LONG REACH EXCAVATOR COMING IN TO SPEED UP PROCESS. TOOK FILTER PINE SAMPLE FCAT-1. STEVE AND I PULLED WELLS DW-5, DW-6, DW-8, DW-1, & RW-3 THROUGH THE PANEL TO CHECK ELECTRICITY. FOUND A COUPLE OF ERRORS IN WIRING AND CONNECTION. SET PART OF SYSTEM SEEMS OK. AS FAR AS ELECTRICITY, BARGE OK. DEGRADED 55 GAL. CONTAINERS OF (UNKNOWN) FILTER.			
Time In	Time Out	Visitor Name	Company	Purpose of Visit
Minutes	Person Called	Phone Number	Purpose of Call	

PROJECT DAILY REPORT

Location: <u>NEWMAN</u>	Personnel on Site: _____	Client: <u>BANNER</u>
Date: <u>8/24/93</u>	_____	Project: <u>SURFACE IMP. CLOSURE</u>
Mileage Start: _____	_____	Project # <u>2040.000.92</u>
Mileage End: _____	_____	Supervisor: <u>DAVE BANNER</u>
Weather: <u>P.C. HOT</u>	Lodging & Location: _____	Title: <u>ENGINEER</u>
Hrs. Lost to Weather: _____	_____	
Equipment: _____	Meals: _____	
_____	_____	
_____	_____	



EMCON
SOUTHEAST

TIME	SUMMARY OF ACTIVITIES			
	Continued to pump in water into four surface (2) surface improvement project and assist with pump in water into four surface improvement project. Steve will be leaving today, so I tried to learn as much about the dewatering system as I could. We purged the line from wells DW-5, DW-6, DW-3, DW-1, & RW-3 to remove construction debris before flow meters. We also purged remaining wells as soon as EMCON's gas probe to them. At DW-5 and DW-6 we were still getting back water. All wells are now pumped in and next step will be to tie gas carbon filters and add 2" valve in transfer pump line from holding tank and put system on line. FOUR SEASONS OPERATED BARGE AND CONTINUED TO PUMP FILTER CHARGE FROM THREE FILTER PRESSES. THEY OPERATED TWO EXCAVATORS STABILIZING THE SETTLE AND THED LONG RANK EXCAVATION SHOWED UP LATE THIS AFTERNOON. BOB FINE (aka) SMITH FC-5 ROAD.			
Time In	Time Out	Visitor Name	Company	Purpose of Visit
		DAVE FINE	EMCON	
		DAVE BENNETT	EMCON	
		NIA?	EMCON	
Minutes	Person Called	Phone Number	Purpose of Call	

PROJECT DAILY REPORT

Location: NEWTON
 Date: 8/22/93
 Mileage Start: _____
 Mileage End: _____
 Weather: P.C. & Hot
 Hrs. Lost to Weather: _____
 Equipment: _____

Personnel on Site: _____

Lodging & Location: _____

Meals: _____

Client: BOWEN
 Project: SURFACE IMP. CLOSURE
 Project # 2040.009.92
 Supervisor: DAVE BENNETT
 Title: ENGINEER



EMCON
 SOUTHEAST

TIME

SUMMARY OF ACTIVITIES

REPORTED TO BOWEN TO WORK THE FOUR SECTIONS OF
 FARM: CARRYING IN MATERIALS, FILLING, FILLING
 PERSONS, CONSTRUCTION OF SURFACE DRAIN, FILLING
 SURFACE THROUGH 2 FILLER EXCHANGES. THIS INCLUDES
 THE SHORT-TERM EXCHANGE OF FILLER, FILLER ONLY.
 OPERATED THE TWO LANE ROAD EXCHANGE, MIXING
 IN SETTING POND. THEY TENTATIVELY PLAN TO GET
 ALL IN PLACE WAITING TO NORTH (TOWARD R. T. TOWARD)
 AND START FILLING THE REMAINING MATERIAL IN THE
 AREAS ON THE BOTTOM. WHERE FILLER CARRYING HAS NOT BEEN
 FOUND. THEY WILL THEN FILLER LATER AND CUT OF FILLER
 CARRY REMINDER OF BOTTOM. THEY WILL THEN FILLER
 THIS SHOULD BE COMPLETE. FIRST CUT OF FILLER
 MATERIAL IS TENTATIVELY SCHEDULED FOR: 10/1/93.
 ADJUTANT (NAME) FILLER FILLER FILLER FILLER FILLER
 FILLER. HAVING TO WORK FILLER FILLER FILLER FILLER FILLER
 HE WILL BE FILLER FILLER FILLER FILLER FILLER.

Time In	Time Out	Visitor Name	Company	Purpose of Visit
		DAVE GOODMAN	EMCON	
		ADJUTANT	EMCON	
Minutes	Person Called	Phone Number	Purpose of Call	

PROJECT DAILY REPORT

Location: NEWMAN
 Date: 8-31-93
 Mileage Start: _____
 Mileage End: _____
 Weather: P.C. Hot
 Hrs. Lost to Weather: _____
 Equipment: _____

Personnel on Site: _____

 Lodging & Location: _____

 Meals: _____

Client: BOWEN
 Project: SURFACE IMP. CLOSURE
 Project #: 2040, 009, 92
 Supervisor: DAVE BUXHARTER
 Title: ENGINEER



EMCON
 SOUTHEAST

TIME	SUMMARY OF ACTIVITIES
	REPORTED TO JGC AND MET WITH KEN, JERRY AND DEANSON TESTING PLANS FOR BARNELL JOB. I THEN WENT TO CESS ON NOCCUNE LENSING METER. BEHIND WENT DOWN TO BARNELL AND CHECKED ON THE JOB LINE THERE. FOUR SECTIONS CONTINUED TO OPERATE THE LARGE PUMPING STATION THROUGH 3 FILTER PHASES. TWO LARGE REACH EXCAVATORS CONTINUED MIXING IN PLACE IN SETTLING POND. PLACEMENT OF CARGO WAS SUPPOSED TO BEGIN ON SETTLING POND BOTTOM TODAY BUT FOUND WATER MIGRATING FROM BOTTOM AS WELL AS BEING FED BY SPRINGS. DECIDED THE BEST COURSE OF ACTION IN THIS CASE WAS TO INSTALL FABRIC AND LAY SURGE STONE ON FABRIC AND THEN PLACE CRUSHER RUN/CEMENT MIXTURE ON SURGE STONE. PACTON WILL BE PERFORMING SURGE STONE & CRUSHER RUN OVER FABRIC PLACEMENT. SOIL SAMPLED FILTER CAKE (FC-10) (WITH FOUR SEASONS.

Time In	Time Out	Visitor Name	Company	Purpose of Visit

Minutes	Person Called	Phone Number	Purpose of Call

PROJECT DAILY REPORT

Location: <u>NEWMAN</u> Date: <u>9-1-93</u> Mileage Start: _____ Mileage End: _____ Weather: <u>PC - HOT</u> Hrs. Lost to Weather: _____ Equipment: _____	Personnel on Site: _____ _____ Lodging & Location: _____ _____ Meals: _____ _____	Client: <u>BARNELL</u> Project: <u>SURFACE IMP. CLOSURE</u> Project # <u>2040.009.92</u> Supervisor: <u>DAVE BURNHART</u> Title: <u>ENGINEER</u>
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EMCON
 SOUTHEAST

TIME	SUMMARY OF ACTIVITIES			
	REVIEWED K. K. K. TO LOOK WITH TAIL SENSOR ON SURFACE IMPROVEMENT CLOSURE. FOUR TAIL SENSOR CLOSURE. BARGE PUMPING SURGE TANKS 3 FIVE PASSES. THEY OPERATED TWO CONJ. BARGE EXCAVATORS MIXING IMPURCE WATERKINS IN SETTLING POND. PAULINE (AS STATION) STARTED PUMPING FANIC AND SURGE SLOW IN SOFT TRENCH LOCATION OF SETTLING POND. TOOK SAMPLES FROM BOTTOM OF SETTLING POND IN THIS AREA TO BE TESTED WITH ALTERNATIVE METHOD FOR PCE & TCE. ADWYA CAME DOWN AND ASSISTED ME IN GETTING REMAINDER OF DEWATERING WELLS. CASCINE. CHECKED LIVING'S SECOND A BIT UPSET THAT THEY WERE NOT ON LINE. HE HAD BEEN TOLD THAT ELECTRICIANS HAD FINISHED UP FRIDAY, BUT THAT WAS NOT THE CASE. TWEAKED REMAINDER OF WELLS @ 1:00 PM AND INSTALLED SAMPLE PORTS ON ALL WELLS AND PUT SYSTEM IN OPERATION. SEEM TO BE HAVING ELECTRICAL PROBLEMS WITH TRANSFER PUMP. REPLACED WDS ON CARGAS DOWNS FOR LOW PUMP COUPLER AND CLEARED SCUM FROM TOP AND GOT THIS SYSTEM BACK ONLINE.			
Time In	Time Out	Visitor Name	Company	Purpose of Visit
		Beard	Emcon	
		Adwya	Emcon	
Minutes	Person Called	Phone Number	Purpose of Call	

PROJECT DAILY REPORT

Location: <u>NEWMAN</u>	Personnel on Site: _____	Client: <u>Brunette</u>
Date: <u>9-2-93</u>	_____	Project: <u>SURFACE IMP. CLOSURE</u>
Mileage Start: _____	_____	Project #: <u>2040.009.92</u>
Mileage End: _____	_____	Supervisor: <u>DAVE BRUNETTE</u>
Weather: <u>P.C. Hot</u>	Lodging & Location: _____	Title: <u>ENGINEER</u>
Hrs. Lost to Weather: _____	_____	
Equipment: _____	Meals: _____	
_____	_____	
_____	_____	



EMCON
SOUTHEAST

9.2.73

TIME

SUMMARY OF ACTIVITIES

I FEEL THE FIRST TWO DRUMS ARE HEAVIEST STARTED UP DUE
TO THE ACTUAL FEED VERSUS PSI. WE APPREX. WERE GETTING
4 TO 7 GPM WITH PRESSURE OF 9 TO 10 PSI. CHOKED PRESSURE
BACK TO PREVENT BYPASSING. ALSO CHECKED 1516 (CARBON)
CONTAINER FOR SEDIMENT. SECOND SHIFT ENJOYED THE RIDE
MR. BOWEN ASSISTED ME. GOT TWO NEW CARBON DRUMS
IN TODAY AND MAY NEED TO GO AHEAD AND PUT THEM ON CASE.
SPOT SAMPLED FILTER CASE (FC-11) WITH FOUR SEASONS.

TIME	SUMMARY OF ACTIVITIES			
	REPORTED TO LAUNCH TO DISTANCE APPROX. 100 YARDS FROM LAUNCH. LAUNCH ON SURFACE IMPROVEMENT PROJECT. THE LAUNCH OPERATING BARGE PUMPING SANDS BY UNLOADING SAND TO CAR TRUCK. PROBLEMS WERE WITH THESE BARGES THEY WERE REMOVED OUT OF STOCKPILE SINCE DUE TO PROBLEMS WITH EXHAUSTION OF SETTING POND BOTTOMS. THEY OPERATED TWO LONG REACH EXCAVATORS MIXING IN PLACE MATERIALS IN THE SETTING POND. PAPERED CONSTRUCTION CONTINUED PLACING SURGE SAND OVER MAT IN SOFT TRENCH IN FRONT OF SETTING POND AND UNLACKING IT IN WITH TRACK CRACK. THEY BEGAN TO BACK TRACKS ON ROCK BED WHEN THEY BEGAN PLACING APPROX. 8" TO 12" OF CRUSHER RUN ROCK APPROX. 8" SURGE SAND. HAD UP WELL WITH NO PUMPING FOR AWHILE UNTIL AN EXTREMELY SOFT SPOT WAS HIT AND WE REALIZED WE WERE HAD PROBLEMS. I CALLED DAVE ZIEGLER AND DAVE WILKINS CALLED TERRY SWELL. DAVE SAID SURGE SAND AND CRUSHER RUN HAD TO BE THICKER AND UNLACKED BETTER AND TERRY			
Time In	Time Out	Visitor Name	Company	Purpose of Visit
		NIA	Emcon	
Minutes	Person Called		Phone Number	Purpose of Call

PROJECT DAILY REPORT

Location: <u>NEWMAN</u>	Personnel on Site: _____	Client: <u>BOWELL</u>
Date: <u>9-3-93</u>		Project: <u>SURFACE IMP. CLOSURE</u>
Mileage Start: _____		Project # <u>2040.009.92</u>
Mileage End: _____		Supervisor: <u>DAVE BUCHANAN</u>
Weather: <u>P.C. HOT</u>	Lodging & Location: _____	Title: <u>ENGINEER</u>
Hrs. Lost to Weather: _____		
Equipment: _____	Meals: _____	



EMCON
SOUTHEAST

TIME	SUMMARY OF ACTIVITIES			
	RETURNED TO CONCRETE TO REPAIR THE CRACKS IN THE CLOSURE WENT OUT TO SCOURING. THEY CONSIDERED OVERHAULING BEFORE PUMPING SEDGE TO GIVE THE FLOPPY PUMPING NOISE AND GERALD DECIDED HE WANTED TO STOP TO REPAIR IT. THEY GOT SOMETHING RESEMBLING SAND BUT IT WAS NOT BECAUSE THE WEIGHT OF THE SPOILED CEMENT CAUSING THE PROBLEMS. REWORKED THE SCOUR STONE AND CHURNED PLACED OVER MAT THAT WAS PUMPING BUT WE NEED MORE STONE SO GERALD HAS DECIDED TO STOP MOST WORK EXCEPT SCOURING BOTTOM UNTIL TUESDAY. PAVING WILL CHECK STONE WITH RUBBER TIRE VEHICLE TO HELP OF COMPACTING AND BETTER COMPACTED. TRANSFER PUMP AND DEWATER SYSTEM AND DEPENDENCY AGAIN GOT CHANGED SOON AFTER. AGAIN, IN FUTURE MONITOR THE 10 MILES WAS STOPPED UP AGAIN. CHANGED IT AGAIN. HAVE A 10 MILES AND FOUR MILES SERIES. REMOVED ONE FLOW METER THAT WAS NOT WORKING. HAD TAKEN IT. DELAYED TWO NEW CARBON DROM FILTERS. WILL PUT THEM ON LINE TUESDAY.			
Time In	Time Out	Visitor Name	Company	Purpose of Visit
		COLLECTED FILTER CARTRIDGE #13 BEFORE SAVING FILTER PRESS DOWN.		
Minutes	Person Called	Phone Number	Purpose of Call	

PROJECT DAILY REPORT

Location: <u>NEWNAD</u>	Personnel on Site: _____	Client: <u>BOWELL</u>
Date: <u>9-4-93</u>		Project: <u>SURFACE IMP. CLOSURE</u>
Mileage Start: _____		Project # <u>2040.009.92</u>
Mileage End: _____		Supervisor: <u>DAVE BILMACK</u>
Weather: <u>P.C. HOT</u>	Lodging & Location: _____	Title: <u>ENGINEER</u>
Hrs. Lost to Weather: _____		
Equipment: _____	Meals: _____	



EMCON
SOUTHEAST

PROJECT DAILY REPORT

Page ____ of ____

TIME	SUMMARY OF ACTIVITIES			
	Reported to Benwell to work with four seasons on surface improvement (sewer). Payton started hauling sugar stone and crusher run. Heard Terry. Four seasons managed to get a vibratory sheepsfoot compactor (USC016) in today. This will help tighten rock up in bottom of settling pond. Had contractor meeting at 10:00 AM. Dave Ricker of Emcon came down for meeting. Filter presses will be off line till we get problem with bottom of settling pond resolved. NIA (was down) from Emcon to assist me in sampling low point collector, settling pond effluent and perwater well effluent. Added two new 55 gallon carbon drums on line today. After degassing all weekend. Check with Eric Benwell of Benwell on relay for transfer pump. He says it should be in tomorrow. Terry Sauer requested Emcon's full co-operation with four seasons on getting the job back on line and minimizing downtime.			
Time In	Time Out	Visitor Name	Company	Purpose of Visit
Minutes	Person Called	Phone Number	Purpose of Call	

PROJECT DAILY REPORT

Location: <u>NEWMAN</u>	Personnel on Site: _____	Client: <u>BENWELL</u>
Date: <u>9-7-93</u>		Project: <u>SURFACE IMP. CONCRETE</u>
Mileage Start: _____		Project # <u>700.009.92</u>
Mileage End: _____		Supervisor: <u>DAVE EXHAETER</u>
Weather: <u>P.C. HOT</u>	Lodging & Location: _____	Title: <u>ENGINEER</u>
Hrs. Lost to Weather: _____		
Equipment: _____	Meals: _____	



EMCON
SOUTHEAST

TIME	SUMMARY OF ACTIVITIES			
	REPORTED TO BOWEN TO WORK WITH FOUR SEASONS ON FOUND SURFACE IMPROVEMENT CLOSURE. NOT MUCH ACTIVITY DUE TO CONTINUED PROBLEMS WITH BOTTOM OF SETTLING POND. PAULIN CONTINUED HAULING SOME SLUDG AND ENJOYED PLAN TO TRY AND STABILIZE MUSHY BOTTOM WHERE GROUNDWATER CONTINUES TO SEEP UP. IT APPEARS THE ROCK WILL BE VERY EFFECTIVE. FOUR SEASONS CONTINUED TO WORK TWO LONG REACH EXCAVATORS IN SETTLING POND BUT ALL OTHER EQUIPMENT IS SHUT DOWN DUE TO LACK OF STORAGE SPACE FOR FILTER CAKE. CONTINUED TO FIND DEWATER SYSTEM SHUT DOWN IN MORNINGS AND SOCK FILTERS STOPPING UP EVERY COUPLE OF HOURS. BOWEN IS CONSIDERING THE INSTALLATION OF A HIGH PRESSURE SCUM WITH A CAUTION TO INDICATE TO PERSONNEL WHEN FILTERS NEED CHANGING. HAD TO TWEAK VACUUM FROM LOW POINT CALIBRATION FOR MAXIMUM 8 PSI. ADONIA CAME DOWN AND ASSISTED ME IN INSTALLING PIEZOMETERS IN DEWATER WEIRS SO WE CAN MONITOR WATER LEVELS THRU ALL THE PIPES IN THE WEIRS.			
Time In	Time Out	Visitor Name	Company	Purpose of Visit
		FOUR SEASONS UTILIZED VIBRATORS, SHEEPS FEED ON ROCK.		
Minutes	Person Called	Phone Number	Purpose of Call	

PROJECT DAILY REPORT

Location: <u>NEWMAN</u>	Personnel on Site: <u>JOSEPHUS-TECH.</u>	Client: <u>BOWEN</u>
Date: <u>9-8-93</u>	<u>ADONIA</u>	Project: <u>SURFACE IMP. CLOSURE</u>
Mileage Start: _____		Project # <u>2040, 009-92</u>
Mileage End: _____		Supervisor: <u>BOB BUCHANAN</u>
Weather: <u>P. C. HOT</u>	Lodging & Location: _____	Title: <u>ENGINEER</u>
Hrs. Lost to Weather: _____		
Equipment: _____		
	Meals: _____	



EMCON
SOUTHEAST

TIME	SUMMARY OF ACTIVITIES			
	REPORTED TO BOWNE TO WORK WITH FOUR SEASONS ON SURFACE IMPROVEMENT CLOSURE. DAYTON CONSTRUCTION CONTINUED PLACING SLAB STONE AND CRACKER RUN WITHIN FOUR STRIPS, COMPACTED WITH VIBRATING SHEEPS FOOT. BY WHICH ALL SOGGY BOTTOM APPEARED TO BE COVERED WITH RACK. PLANS ARE TO PLACE CEMENT DUST, MOISTEN WITH SPRAY, LAY FABRIC, AND COVER ENTIRE WET BOTTOM WITH APPROX. 6" CRACK COMPACTED WITH SHEEPS FOOT. BRIAN FROM EMCON WAS DOWN TODAY AND WE BEGAN PROGRESS ON FILTER CANALS. ADONIA CAME DOWN AS WELL AND I GOT HER TO CHECK WATER LEVELS IN WELLS WE GOT PIEZOMETERS IN YESTERDAY AND WE FINISHED INSTALLING PIEZOMETERS IN WELLS WE WERE UNABLE TO COMPACT YESTERDAY. DAROLD WIGGINS HAS MADE ARRANGEMENTS FOR GAYLORD LINSFORD OF BOWNE TO INSTALL PRESSURE SWITCH FOR SAGE FILTER TOMORROW. FOUR SEASONS REMAINS IMMOBILIZED EXCEPT FOR TWO CONC. REACH EXCAVATORS AND SHEEPSFOOT COMPACTOR.			
Time In	Time Out	Visitor Name	Company	Purpose of Visit
		BRIAN	EMCON	
		ADONIA	EMCON	
Minutes	Person Called	Phone Number	Purpose of Call	

PROJECT DAILY REPORT

Location: <u>NEWMAN</u>	Personnel on Site: <u>JACOBUS - TECH</u>	Client: <u>BOWNE</u>
Date: <u>9-9-93</u>	<u>ADONIA</u>	Project: <u>SURFACE IMP. CLOSURE</u>
Mileage Start: _____	<u>BRIAN</u>	Project # <u>2090.009.92</u>
Mileage End: _____	Lodging & Location: _____	Supervisor: <u>DAVE BEXHACKER</u>
Weather: <u>P.C. HOT</u>	Meals: _____	Title: <u>ENGINEER</u>
Hrs. Lost to Weather: _____		
Equipment: _____		



EMCON
SOUTHEAST

TIME	SUMMARY OF ACTIVITIES			
	REPORTED TO BONNELL TO WORK WITH FOUR SENSORS ON SURFACE IMPROVEMENT AT CLOSURE. PLANS ARE TO TRY AND GET FILTER PRESSES BACK IN OPERATION MONDAY. AFTERNOON CONTINUED TO TRANSFER CUMULUS FROM STOCK PILE TO BASE OF SETTLING POND. CRUSHER RUN WAS DUSTED WITH PORTLAND AND THEN WET AND FABRIC WAS ROLLED OVER THIS ON UP BANKS AT EDGE OF SETTLING POND. 6" TO 15" LIFT OF GAY WAS TAKEN SPREAD WITH BACKHOE AND PACKED WITH SHEEPS FEET. WORKED ON PROTECTORS FOR FILTER CAGES IN OFFICE AND WHEN BRIAN GOT DOWN WITH NUCLEAR DENSITY GAUGE WE DID SOME COMPACTION TESTS. BRIAN FELL RESULTS WERE A LOT OFF SO HE IS GOING TO RECHECK EVERYTHING. NIA WAS DOWN TODAY AND I HAD HER UNDER ON TWEAKING DEWATER WELLS. GAY PLACEMENT WAS COMPLETED THIS AFTERNOON SO DAVE RADZIETA WAS DOWN AND I GOT HIM TO ASSIST ME IN SHOOTING ELEVATIONS ON COMPACTED PORTION OF BOTTOM OF SETTLING POND. BONNELL WAS SUPPOSED TO BE INSTALLING PRESSURE ALARMS ON DEWATER SYSTEM TODAY BUT NO			
Time In	Time Out	Visitor Name	Company	Purpose of Visit
		INDICATION OF ACTIVITY. FOUR SENSORS OPERATED TWO LONG REACH EXCAVATORS.		
		BRIAN	EMCON	
		NIA	EMCON	
		DAVE RADZIETA	EMCON	
Minutes	Person Called	Phone Number	Purpose of Call	
	CHECKED LOW POINT COLLECTOR FLOW - 116 GPM TOPKAY AVE. FLOW OVER 8 HOURS			
	- 2.16 GPM FROM DEWATER WELLS			
	8.8 GPM FROM HOUSESIDE			

PROJECT DAILY REPORT

Location: <u>NEQUAN</u>	Personnel on Site: _____	Client: <u>BONNELL</u>
Date: <u>9-10-93</u>	_____	Project: <u>SURFACE IMP. CLOSURE</u>
Mileage Start: _____	_____	Project #: <u>2040.009.92</u>
Mileage End: _____	_____	Supervisor: <u>DAVE BULCHACKER</u>
Weather: <u>P.C. HAT</u>	Lodging & Location: _____	Title: <u>ENGINEER</u>
Hrs. Lost to Weather: _____	_____	
Equipment: _____	Meals: _____	
_____	_____	
_____	_____	



EMCON
SOUTHEAST

TIME	SUMMARY OF ACTIVITIES			
	REPORTED TO BEARWELL TO WORK WITH 1.5% SENSING ON BEARWELL SURFACE IMPROVEMENT (CLOSURE). FOUR SEASONS IS NOW TRANSFERRING ALL IN PLACE SOLIDIFIED MATERIAL TO STOCKPILE ON CLAY BOTTOM. GERALD EXPRESSED MUCH CONCERN FOR LACK OF WORKING SPACE UNDER PRESENT CONDITIONS AND INCREASING PROBLEMS IF FILTER PRESSES ARE PUT BACK ON LINE SO Terry, SWOOL GAVE NO TO DELAY FILTER PRESS STARTUP A FEW MORE DAYS WHILE BOTTOM IS CLEARED IN REMAINDER OF SETTLING POND TO SEE WHAT PROBLEMS WE ARE GOING TO RUN INTO. THE REMAINDER OF FILTER PRESS (AND) WILL RETURN TO LOUISIANA UNTIL BOTTOM PROBLEM IS RESOLVED. HAD CONTRACTOR MEETING AT 10:30 THIS MORNING. THERE'S A POSSIBILITY WE MAY HAVE TO PUMP SURFACE WATER OFF POLISHING POND SOON SO Terry, HAD ASI COME DOWN TO SAMPLE FOR NPDES PARAMETERS. I ASSISTED. SAW ELEV. OF POLISHING POND WATER LEVEL AND SETTLING POND SUMP WATER LEVEL AND POLISHING POND LEVEL WAS 5.07' HIGHER (WHICH MEANS WE COULD HAVE A PROBLEM IF WE HIT A WEAK SPOT IN LEVEE BETWEEN TWO PONDS.			
Time In	Time Out	Visitor Name	Company	Purpose of Visit
		FOUR SEASONS OPERATED TWO LONG REACH EXCAVATORS & ONE BLADE DOZER		
		BEARWELL	EMCON	
Minutes	Person Called	Phone Number	Purpose of Call	

PROJECT DAILY REPORT

Location: <u>NEURMAN</u>	Personnel on Site: _____	Client: <u>BEARWELL</u>
Date: <u>9-13-93</u>	_____	Project: <u>SURFACE IMP. CLOSURE</u>
Mileage Start: _____	_____	Project # <u>2040.009.92</u>
Mileage End: _____	_____	Supervisor: <u>DAVE BECHTOLD</u>
Weather: <u>PC W/DRizzle</u>	Lodging & Location: _____	Title: <u>ENGINEER</u>
Hrs. Lost to Weather: _____	_____	
Equipment: _____	Meals: _____	
_____	_____	
_____	_____	



EMCON
SOUTHEAST

TIME	SUMMARY OF ACTIVITIES			
	REPORTED TO BARNWELL TO WORK WITH ROCK ILLINOIS AND BARNWELL SURFACE IMPROVEMENT OPERATIONS. FOUR SEASONS CONTINUED TO EXCAVATE IN PLACE SOLIDIFIED MATERIAL TOWARD DAM. AS THEY APPROACHED BOTTOM IT WAS VERY CRUMBLY AND PUMPING. DAVE RICER OF EMCON CAME DOWN TODAY AND HE DIDN'T SEEM TOO ALARMED ABOUT IT. HE SEEMED TO PUT EVERYONE ELSE'S FEELING TO REST. RICHARD STARTED HAULING SURGE STONE AND STOCKPILING SOME. WE WOULD HAVE PLenty TO COVER THE BOTTOM. BEFORE DAY WAS OUT WE WERE PILING FARKIA AND SURGE STONE. FOUR SEASONS HAD RUN OUT COMING IN TO SOLIDIFY MAT. WHILE IT WAS BEING EXCAVATED. TEN SAMPLES OF FOUR SEASONS FILTER CAKE SAMPLE TO BE TESTED FOR TOTAL CHROME, TOLP CHROME, TCE, PCE. ACCOMPANIED TERRY SWAN AND DAVE BUCHALTER ON TECHNICAL CONFERENCE TOUR POST. FOUR SEASONS OPERATED TWO CONE BEACH EXCAVATORS AND ONE BLADE DOZER. FILTER PRESSES REMAIN ON STAND BY.			
Time In	Time Out	Visitor Name	Company	Purpose of Visit
		DAVID RICER	EMCON	
		DAVE BUCHALTER	EMCON	
Minutes	Person Called	Phone Number	Purpose of Call	

PROJECT DAILY REPORT

Location: <u>NEEDHAM</u>	Personnel on Site: _____	Client: <u>BARNWELL</u>
Date: <u>9-14-93</u>	_____	Project: <u>SURFACE IMP. OPERATIONS</u>
Mileage Start: _____	_____	Project # <u>2040-009.92</u>
Mileage End: _____	_____	Supervisor: <u>DAVE BUCHALTER</u>
Weather: <u>P.C. HOT</u>	Lodging & Location: _____	Title: <u>ENGINEER</u>
Hrs. Lost to Weather: _____	_____	
Equipment: _____	Meals: _____	
_____	_____	
_____	_____	



EMCON
SOUTHEAST

TIME	SUMMARY OF ACTIVITIES			
	REPORTED TO BONNELL TO WORK WITH FOUR SEASONS ON BONNELL SURFACE IMPROVEMENT CLOSURE. ONE OF THE FLOWMETERS ON THE DEWATER SYSTEM STOPPED WORKING SO I TOOK IT APART AND CLEANED IT. (METER FOR RW-3 & DW-1) FOUR SEASONS CONTINUED DE MUCKING THE BOTTOM OF SETTLING POND AND PUTTING DOWN FABRIC & SURGE STONE WORKING THEIR WAY TO THE LEVEE. THEY ARE TRYING TO KEEP EVERYTHING STABILIZED IN THE EVENT OF PROBLEMS AT THE LEVEE. THEY GOT MORE KILL DUST IN TODAY TO MIX WITH SLOPPY MUCK COMING OUT OF BOTTOM SWAMPY AREA OF SETTLING POND. SUEE ELEVATIONS ON FILTER CAKE STOCKPILE TRYING TO TRY AND CALCULATE ROUGH VOLUME OF STOCKPILE CAKE. BRIAN OF EMCON VISITED SITE TODAY. HE FELT FOUR SEASONS MAY BE GAINING A LITTLE HEAD ON THE SURGE STONE BUT THEY ARE HAVING TO GUARANTEE THE JOB SO HE WOULDN'T SAY ANYTHING. DANNON CONTINUED TO STOCKPILE SURGE STONE SO WE CAN WORK THROUGH WEEKEND IF NECESSARY. FOUR SEASONS DITCHED THROUGH PERKINS EXCAV.			
Time In	Time Out	Visitor Name	Company	Purpose of Visit
		AND ONE PLACE ORDER.		
		BRIAN	EMCON	
Minutes	Person Called	Phone Number	Purpose of Call	

PROJECT DAILY REPORT

Location: <u>NEWMAN</u>	Personnel on Site: _____
Date: <u>9-15-93</u>	_____
Mileage Start: _____	_____
Mileage End: _____	_____
Weather: <u>P.C. Hot</u>	Lodging & Location: _____
Hrs. Lost to Weather: _____	_____
Equipment: _____	Meals: _____
_____	_____
_____	_____

Client: BONNELL
 Project: SURFACE IMP. CLOSURE
 Project # 2040.009.92
 Supervisor: DAVE BULLHARTER
 Title: ENGINEER



EMCON
SOUTHEAST

TIME	SUMMARY OF ACTIVITIES			
	Reported to BARNETT to work with FOUR SEASONS ON SURFACE IMPROVEMENT CLOSURE. FOUR SEASONS CONTINUED UTILIZING TWO CASE RATCH EXCAVATORS AND BLADE DOZER TO REMOVE SCIPPY MUCK FROM SWAMPY AREA IN BOTTOM OF SETTING POND AND PLACE FABRIC AND SURGE STONE IN THIS PLACE. THEY CONTINUE TO RECEIVE TRUCKLOADS OF KILN DUST TO MIX WITH MUCK FROM BOTTOM TO SOLIDIFY AND STOCK PILE. GERALD WILL BE HEADING HOME TO LOUISIANA THIS AFTERNOON AND WON'T BE BACK TILL SUNDAY. PANTON CONTINUES TO HAUL AND STOCKPILE SURGE STONE. THEY ARE GOING TO REQUEST THE QUARRY, END SATURDAY, TO START HAULING CRUSHER RUN. GERALD HOPES BY MONDAY WE MAY BE IN GIFTS. BEARD OF EMCON WAS DOWN TODAY AND HE STARTED REPAIRS ON 10% CEMENT MIXTURE FILTER CAKE. ALSO GRABBED SOME SOLIDIFIED MUCK TO BEARD PERFORMS ON 14 TOMORROW. FOUND BUSTED HOSE ON WITHDRAWAL WELL DW-7. WILL TRY TO REPAIR IT TOMORROW.			
Time In	Time Out	Visitor Name	Company	Purpose of Visit
		BRIAN	EMCON	
Minutes	Person Called	Phone Number	Purpose of Call	

PROJECT DAILY REPORT

Location: <u>NEWMAN</u>	Personnel on Site: _____	Client: <u>BARNETT</u>
Date: <u>9-16-93</u>	_____	Project: <u>SURFACE IMP. CLOSURE</u>
Mileage Start: _____	_____	Project # <u>2040.009.92</u>
Mileage End: _____	_____	Supervisor: <u>DAVE BRAXTON</u>
Weather: <u>P.C. HOT</u>	Lodging & Location: _____	Title: <u>ENGINEER</u>
Hrs. Lost to Weather: _____	_____	
Equipment: _____	Meals: _____	
_____	_____	
_____	_____	



EMCON
SOUTHEAST

TIME	SUMMARY OF ACTIVITIES			
	REPORTED TO BONNELL TO WORK WITH FOUR SEASONS ON SURFACE IMPROVEMENT CLOSURE. INSTALLED DEWATER WELLS AND FOUND MOTOR ON ONE SYSTEM NON-FUNCTIONING. HONED, WELDED, AND REPAIRED IT AGAIN. HAD ONE HOSE ON TEMPORARY, WELLS BURST AND REPAIRED IT. FOUR SEASONS OPERATED TWO COMBINE EXCAVATORS AND BLADE LOADER CONTINUING TO WORK MUCKY BOTTOM BACK TO LEVEL. VERY SLOW PROGRESS TODAY. ALMOST LOST ONE EXCAVATOR IN THE MUCK. HAD TO GET LARGE WRECKING BAR TO GET IT OUT. PAPER CONTINUED HAVING SOME STONE AND CEMENT RUN IN AND SUPERVISE FOR WEEKEND. COMPLETED RUNNING PROCTOR POINTS ON 10% CEMENT MIXTURE FOUR SEASONS FILTER CASE. WILL RUN PROCTOR POINTS ON SOLIDIFIED MATERIAL AND THEN 20% CEMENT MIXTURE FILTER CASE. DAVE BURNHARTER CAME DOWN TOWN, AND I BRIEFED HIM ON WASTEWATER TREATMENT SYSTEM FOR TECHNICAL CONFERENCE TOUR NEXT WEEKEND.			
Time In	Time Out	Visitor Name	Company	Purpose of Visit
		DAVE BURNHARTER	EMCON	
Minutes	Person Called	Phone Number	Purpose of Call	

PROJECT DAILY REPORT

Location: <u>NEWMAN</u>	Personnel on Site: _____
Date: <u>9-17-93</u>	_____
Mileage Start: _____	_____
Mileage End: _____	_____
Weather: <u>P.C. LIGHT SHOWERS</u>	Lodging & Location: _____
Hrs. Lost to Weather: _____	_____
Equipment: _____	Meals: _____
_____	_____
_____	_____

Client: BONNELL
 Project: SURFACE IMP. CLOSURE
 Project # 2040.009.92
 Supervisor: DAVE BURNHARTER
 Title: ENGINEER



EMCON
SOUTHEAST

PROJECT DAILY REPORT

Client: Bowen
Project: SURFACE IMP. BOBWHITE
Project # 2410-007.92
Supervisor: DAVE BUCHANAN
Title: ENGINEER



EMCON

SOUTHEAST

TIME	SUMMARY OF ACTIVITIES			
	Reported to Bonnell to work with Fox Seasons on Bonnell Surface Impoundment Closures. We had a large Contractors Meeting today to discuss some alternatives cause we are still very congested with filter cake and solidified sludge in the settling pond. Terry, Gavis Approach to pure solidified material and muck from unfinished corner onto Levy Slaps of polishing pond. This will aid us in moving right along. Fox Seasons will then place surge stone, Matt, crusher run and clay on the remaining bottom to Levy and then we can place stockpile solidified material in southwest corner of settling pond in lifts on finished bottom and then finish up stockpile area with clay and have bottom complete. Spot elevations on finished bottom as of this date and stockpile of solidified sludge. Brian from Emcon was down today to look at project points I pointed out this weekend.			
Time In	Time Out	Visitor Name	Company	Purpose of Visit
		Brian	Emcon	
Minutes	Person Called	Phone Number	Purpose of Call	

PROJECT DAILY REPORT

Location: <u>Newman</u>	Personnel on Site: _____	Client: <u>Bonnell</u>
Date: <u>9-20-93</u>		Project: <u>Surface Imp. Closures</u>
Mileage Start: _____		Project #: <u>2040.009.92</u>
Mileage End: _____		Supervisor: <u>Dave Buchacter</u>
Weather: <u>P.E. Approx. 15.5</u>	Lodging & Location: _____	Title: <u>Engineer</u>
Hrs. Lost to Weather: _____		
Equipment: _____	Meals: _____	



EMCON
SOUTHEAST

PROJECT DAILY REPORT

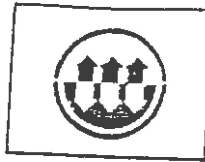
PROJECT DAILY REPORT

Client: BOWELL
Project: SURFACE IMP. CONSTRUCTION
Project # 2040.00A.92
Supervisor: DAVID BOWMAN
Title: ENGINEER



EMCON

SOUTHEAST



EMCON Southeast

DAILY REPORT

Route To: Master - White (Original)
On-Site - Yellow
Project Manager - Pink

Report #: Nº 002
Date: Sept. 24, 19 93
Contract Day _____ of _____
Time Enter Site 0700
Time Leave Site 1600

Project Name: BONWILL - NEWMAN
Weather: PARTLY CLOUDY
Working Conditions: GOOD
Location: BONWILL - NEWMAN
Prime Contractor's Personnel: JOE LEWIS
Subcontractors on the Site: FOUR SEASONS, LONG STREET METAL, PAYTON CONSTRUCTION
Visitors: _____
Hours On Site: Contractor _____ EMCON 9.0 Other _____

Progress: WORKED FIRST THINGS ON Dewater System And Vapor Extraction System. Had to Change Pumps from old Vapor Extraction. Checked Low Pressure Collector System And Found High Pressure Going Into Carbon Filters There. By-Passed First Drums And Pressures Went Down So I Can Run Assuming The First Drums Are Stopped Up. Was Able To Even Increase Flow Through System. Delivered Keys To CHRYSLER CREDIT L.F. WHICH WERE LEFT WITH ME BY RAZZETTA WHEN SPARKED THERE YESTERDAY. Weighed Out And Finished Up Proximate Started Yesterday. Did One Day Break Test On 10% Cement Mixed Sandstone Material. Results were 13PSI. Four Seasons Operated Low Reach Excavator And Blade Oper. Digger Speed (Cuts Run When Payton) Construction Transported It To Site. Excavator Mixed Cement And Into First Dike. The Filter Press Crew Worked On BARS & Filter Presses Getting Them Ready To Operate Next Week.

JOE LEWIS - TECH.
Prepared By: EMCON Southeast

Reviewed By: EMCON Southeast



EMCON Southeast

DAILY REPORT

Route To: Master - White (Original)
On-Site - Yellow
Project Manager - Pink

Report #: Nº 003
Date: Sept. 25, 19 93
Contract Day _____ of _____
Time Enter Site ~
Time Leave Site ~

Project Name: Burnell Surt. Imp. Closure Project #: 2000-009-92
Weather: Partly Cloudy Mean Temp. 90
Working Conditions: _____
Location: Burnell Surt. Imp.
Prime Contractor's Personnel: _____
Subcontractors on the Site: Four Seasons, Patton Construction
Visitors: _____
Hours On Site: Contractor _____ EMCON _____ Other _____

Progress: Four Seasons Added Cement Dust to Cement Bin
And Then Spread Clay (Approx. 1") Over Cement Bin.
Patton Construction Prepared for First Lift of
Solidified Material. Continued Mixing Cement Dust into
Filter Cake. Filter Press Crew Continued Preparing Filter Press
for Cleanup Next Week.

Joe Lewis - Tech.
Prepared By: EMCON Southeast

Reviewed By: EMCON Southeast



EMCON Southeast

DAILY REPORT

Route To: Master - White (Original)
On-Site - Yellow
Project Manager - Pink

Report #: No 004
Date: Sept. 26, 19 93
Contract Day _____ of _____
Time Enter Site 0830
Time Leave Site 1730

Project Name: Bonwell Surf. Imp. Closure Project #: 2040.009.92
Weather: Partly Cloudy Mean Temp. 90°
Working Conditions: Good
Location: Bonwell - Newman
Prime Contractor's Personnel: Jacobs - Tech.
Subcontractors on the Site: Four Seasons - Patten Const.
Visitors: EMCON Technical Conference Tour.
Hours On Site: Contractor _____ EMCON 9.0 Other _____

Progress: Sand elevations on clay bottom installed yesterday
in settling pond. EMCON Tech. Group arrived Sunday after
ten. Time and lunch covered access. 2.5 hrs. AID 3-day break
test on solidified material test pad. Obtained 11 PSI of strength
but appeared to break around embedded rock. One day before with
18 PSI so there was obviously a problem. Drive down rows on area
of clay installed yesterday and performed field density tests.
Four Seasons began first solidified material lift today.
utilized long reach excavator and blade loader.

Jacobs - Tech.

Prepared By: EMCON Southeast

Reviewed By: EMCON Southeast



EMCON Southeast

DAILY REPORT

Route To: Master - White (Original)
On-Site - Yellow
Project Manager - Pink

Report #: No 005
Date: Sept 27, 19 93
Contract Day _____ of _____
Time Enter Site 0700
Time Leave Site 1900

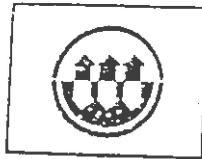
Project Name: BENNETT SURF. IMP. CLOSURE Project #: 2040.009.92
Weather: OVERCAST & RAIN TO PARTLY CLOUDY Mean Temp. 85
Working Conditions: WET IN MORNING - DAMP IN AFTERNOON
Location: BENNETT - NEWMAN
Prime Contractor's Personnel: JOE LEWIS, DAVE RICHTER, BRIAN BOLWITE
Subcontractors on the Site: FOUR SEASONS, JAMES SHEET METAL, ACTION CONST.
Visitors: _____
Hours On Site: Contractor _____ EMCON 12 Other _____

Progress: MORNING RAIN - CHECKED VAPOR EXTRACTION SYSTEM AND GOT
METER REPAIRS ON DEWATER SYSTEM. CONTRACTOR MEETING WAS
POSTPONED UNTIL TOMORROW. BRIAN WAS IN AND WE WORKED ON TWO
MORE PROCTOR POINTS ON CLAY. GOT OXY METER AND DRIVE RINGS TAKEN
YESTERDAY. GAVE DAVE BOLWITE'S DEMONSTRATION ON SOIL REMEDIATION
TEST. DAVE RADZICKO & DAVE GOODRICH CALLED AND GAVE ME A LIST OF
THEIR WISHES SO I WORKED ON THEM. INFORMED DAVE BOLWITE THAT
WE NEEDED HAZARDOUS STICKERS ON TWO DRUMS IN SOIL VAPOR AREA AND
LOW POINT COLLECTOR SYSTEM ALSO HAS TWO DRUMS THAT NEED HAZARDOUS
CABELS. THESE DRUMS NEED TO GO TO A DESIGNATED HAZARDOUS STORAGE
AREA AT BENNETT AND BE DISPOSED OF WITHIN 90 DAYS. (CHECKED CRAL
SUPPLIERS FOR 6" PVC PIPS FOR DEWATER WELLS (TEMPORARY) ON NORTH SIDE
OF SETTLING POND. FOUR SEASONS OPERATED UNTIL REACH EXCAVATOR AND
BRAD CRUZER AND BEGAN WORKING FIRST CUT OF SOLIDIFIED MATERIAL
THEY PLAN TO CUT IN ADEQUATE AMOUNT OF CONCRETE FIRST UNTIL
THEY DECIDE ON MEASUREMENT METHOD. LIFT SEEMED TO PUMP A LOT OF
PROBABLY FROM MORNING RAIN SO ADDITIONAL DUST WAS ADDED.

JOE LEWIS - TECH.

Prepared By: EMCON Southeast

Reviewed By: EMCON Southeast



EMCON Southeast

DAILY REPORT

Route To: Master - White (Original)
On-Site - Yellow
Project Manager - Pink

Report #: NO 006
Date: SEPT. 28, 19 93
Contract Day _____ of _____
Time Enter Site 0700
Time Leave Site 1900

Project Name: BARNWELL SURF./IMP. CLOSURE Project #: 2040.009.92
Weather: Clear Cool Mean Temp. _____
Working Conditions: OKAY
Location: BARNWELL - NEWMAN
Prime Contractor's Personnel: JACOBSON, RUMBLEHART
Subcontractors on the Site: FOUR SEASONS, JONES SHEET METAL, FACTORY CONSTRUCTION
Visitors: DAVE BEHAGHER -
Hours On Site: Contractor _____ EMCON 12 Other _____

Progress: CHECKED VAPOR EXTRACTION SYSTEM. BLENDER BEING REPAIRED OUT. SPENT SOME TIME GETTING SYSTEM GOING. SPENT AFTERNOON (1) CONTRACTORS MEETING LEAVING OUT PROBLEMS. BLEND WAS DOWN FROM CHC AND WE SURVEYED ELEVATIONS OF SOLIDIFIED MATERIAL SUBGRADE (FIRST LIFT) 4' WE THEN ADOPTED RULES FOR SOIL DENSITY TESTS AND SHELLY TUBES FOR BREAK TESTS. FOUR SEASONS HAD TO REWORK A SECTION OF SUBGRADE THAT WE DISCOVERED PUMPING WHEN TEST ROLLING. FOUND VERY WET UNCOMPACTED MATERIAL APPROX. 24" IN DEPTH. THEY CUT MORE DEEP INTO DEEP AND BLEND IT BACK UP 12" LIFTS COMPACTING BETWEEN LIFTS. REPAIRED PUMP ROLLING PLANTED SIX LATERALS. FOUR SEASONS THEN BEGAN SECOND LIFT. WE PUT IN REFERENCE STAKES FOR 6" & 12" LIFT. THEY WILL BE PLACING FILTER CLOTH ON TOPS LIFT AND CUTTING IN FIRST 4" DEEP OUT. WILL COMPACT AT 6" EACH LIFT.

JACOBSON - TECH.

Prepared By: EMCON Southeast

Reviewed By: EMCON Southeast



EMCON Southeast

DAILY REPORT

Route To: Master - White (Original)
On-Site - Yellow
Project Manager - Pink

Report #: No 007
Date: SEPT. 29, 19 93
Contract Day _____ of _____
Time Enter Site 0700
Time Leave Site 2030

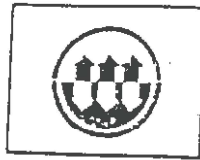
Project Name: BANDOL SUEF. IMP. CLOSURE Project #: 2040.009.92
Weather: CLEAR, COOL Mean Temp. _____
Working Conditions: OKAY
Location: BANDOL - NEZUMAN
Prime Contractor's Personnel: JOE COLINS, BILLAR
Subcontractors on the Site: FOUR SEASONS, JAMES STREET METAL, PRINCE CONSTR.
Visitors: _____
Hours On Site: Contractor _____ EMCON 13.5 Other _____

Progress: CHUNK VAPOR EXTRACTION SYSTEM. BREAKER WAS KICKED OUT AND NOT KICKED OUT. GOT ALINT. TO CHECK AND ELECTRICAL SUPPLY SEEMS OKAY SO THEY SAY THE PROBLEM IS THE EXTRACTOR. HAD ALINT. RACE IT TO THE SHOP AND WE CHECKED IT OUT AND FOUND THE UNIT TO BE BAD. TRIED TO REMOVE THE GOOD TEST CAGES FROM THE SHIPY TUBS NEEDED YESTERDAY AFTERNOON AND COLINS GOT THEM OUT. HAD TO MAKE A TRIP TO CGC TO USE THEIR PRESS TO EXTRACT THEM FROM THE TUBES. THE CAGES WERE VERY BRITTLE AND IN MOST CASES WAS IMPOSSIBLE TO GET 6" CUT CAGE FOR BROOD TUBES. TERRY MAYS SAID HE COULD USE A FARMER TO CUTTING GROUND WITH SHAPER CAGES AS CAGE AS THEY WERE 401 SO WE RETURNED THOSE. GROUP OF FOUR SEASONS ASSISTED ME IN COVERING ONE SURVEY POINT IN DISTANCE FROM YESTERDAY'S SURVEYING. UNKED ON DRIVE RAILS COLLECTED YESTERDAY TO ESTABLISH PROCTOR POINTS. FOUR SEASONS CONTINUES TO MAINTAIN DEWATER CAGE. SAILORING CAGE CONTINUES SEANDLIFT WHICH CONSISTS OF FIFTEEN CAGES. OPERATED LONGRACH EXCAVATOR AND BARGE DOZER.

JOE COLINS - TECH

Prepared By: EMCON Southeast

Reviewed By: EMCON Southeast



EMCON Southeast

DAILY REPORT

Route To: Master - White (Original)
On-Site - Yellow
Project Manager - Pink

Report #: No 011
Date: SEPT 30, 19 93
Contract Day _____ of _____
Time Enter Site 08:30
Time Leave Site 19:15

Project Name: BONNELL - IMPOUNDMENT CLOSURE Project #: 2010.009.92
Weather: CLEAR / ~~Clear~~ - slight wind Mean Temp. 75°
Working Conditions: _____
Location: BONNELL PLANT - NEWNAN, GA
Prime Contractor's Personnel: BRIAN DOLINITE
Subcontractors on the Site: 4 Seasons, Peyton's Sons
Visitors: _____
Hours On Site: Contractor _____ EMCON 10.65 Other _____

Progress: Four Seasons contd. placing the 2nd lift (12") of filter cake in the settling pond. Four Seasons using a harrowing disc to add-mix portland cement dust with the filter cake every 6" to meet strength requirements. Placing and grading the material w/a D-4 LRP dozer and compacting with a Bomag Patteot Compactor. I contd. work on analysis and documentation of drive ring compaction test results performed on clay bottom and solidified material lifts. Monitoring contractor activities periodically throughout the day. Monitored proofrolling of the completed lift of filtercake placed today. No areas of pumping or softness observed. Visual observations find the lift to be well compacted. Obtained 5 drive ring compaction samples and 12 Shelby Tube compressive strength samples for CQA testing. Prepared compaction and compressive strength samples for analysis and testing.

Brian E. Dolinite

Prepared By: EMCON Southeast

Reviewed By: EMCON Southeast



EMCON
Southeast

DAILY REPORT

Route To: Master - White (Original)
On-Site - Yellow
Project Manager - Pink

Report #: No 008
Date: Oct. 1, 19 93
Contract Day _____ of _____
Time Enter Site 0700
Time Leave Site 1900

Project Name: Bowen Surf. Imp. Closure

Project #: 2040-009-92
Mean Temp. _____

Weather: Clear, Warm

Working Conditions: OKAY

Location: Bowen - Newnan

Prime Contractor's Personnel: Joe Lewis

Subcontractors on the Site: Four Seasons, Patton Construction

Visitors: _____

Hours On Site: Contractor _____ EMCON 12 Other _____

Progress: FOUR SEASONS CONTINUES THIRD
THEY SPREAD ALABAMA AND THEN CUT-UP KICK AUST WITH DISE
HARROWS. THEY TRANSFER THE CAKE WITH LONG REACH EXCAVATOR
AND SPREAD WITH BIAS DOZIER. PRE-FILTER PRESSES BEGAN CLEANING
UP YESTERDAY AND GOT INTO PROPORTION TODAY. TERRY MAKS OF C&I
IS HAVING A HARD TIME COMING UP WITH PROPORTORS ON THIS SWOGE SO
HE IS GOING TO TRY AND ESTABLISH AN AVERAGE WITH THE FIELD DENSITY
TESTS WE ARE PERFORMING. PUMP ROLLING STILL APPEARS TO BE THE
REAL TEST. WATER LEVELS APPEARED TO RISE A LITTLE IN SWOGE IN
SETTING POND. ATTEMPTED TO DETERMINE EXACT LEVEL AT LOWER
END AND IT APPEARS TO BE APPROX 36". COMPLETED FIELD DENSITY TESTS
BRIAN STARTED YESTERDAY. ALSO DID BREAKS ON SAMPLES FROM
FIRST PART OF SECOND CUT. BRIAN CAME BY ON HIS WAY TO AND OUT
OF TOWN TRIP AND DROPPED OFF SAMPLES HE TOOK YESTERDAY FOR
BREAK TESTS AND HAD TO EXTEND AT C&I. IT APPEARS WE ARE
GONNA TO HAVE TO GET EXTENDER FOR FIELD OFFICE.

* JOE LEWIS - TECH.

Prepared By: EMCON Southeast

Reviewed By: EMCON Southeast



EMCON Southeast

DAILY REPORT

Route To: Master - White (Original)
On-Site - Yellow
Project Manager - Pink

Report #: No 009
Date: Oct 12, 19 93
Contract Day _____ of _____
Time Enter Site 0900
Time Leave Site 1900

Project Name: BONNELL SURF. IMP. CLOSURE Project #: 2040.009.92
Weather: Clear, Warm Mean Temp. _____
Working Conditions: OKAY
Location: BONNELL - NEUMAN
Prime Contractor's Personnel: JOE LEWIS
Subcontractors on the Site: FOUR SEASONS
Visitors: _____
Hours On Site: Contractor _____ EMCON _____ Other _____

Progress: FOUR SEASONS CONTINUED WORKING ON ^{THIRD} ~~SECOND~~ LIFT IN SETTLING POND. ^{THIRD} LIFT CONSISTS OF FILTER CASE. THEY PLACE MATERIAL WITH EXCAVATOR, SPREAD WITH BLADE DOZER AND CUT RUN BEST IN WITH DKS HARROW AND PACK WITH SHEEPS FOOT. BARGE AND FILTER PRESSES CONTINUING TO PRODUCE FILTER CASE. THREE FILTER PRESSES IN OPERATION BUT SETTLING PUMP ON ONE PRESS GIVING THEM PROBLEMS. CHECKED AQUARIUM SYSTEM AND ROAD MOTORS STILL HAVING PROBLEMS. NEEDING DW-1 & DW-3 WELLS REPAIRING. ALSO HAVE ONE PUMP ON WAY BETWEEN POLISHING POND & SETTLING POND I NEED TO CHECK. FOUR SEASONS FINISHED SECOND LIFT OF FILTER CASE THIS AFTERNOON SO I START ELEVATIONS ON IT. WAS GOING TO DRIVE RINGS BUT RAN OUT OF TIME HAVE TO DO THAT FIRST THING IN THE MORNING.

JOE LEWIS - TECH

Prepared By: EMCON Southeast

Reviewed By: EMCON Southeast



EMCON Southeast

DAILY REPORT

Route To: Master - White (Original)
On-Site - Yellow
Project Manager - Pink

Report #: No 010

Date: Oct. 3, 19 93

Contract Day _____ of _____

Time Enter Site 0900

Time Leave Site 1300

Project Name: Bonwell Golf Imp. Closure

Project #: 2040-009-92

Weather: CLEAR, WARM

Mean Temp. _____

Working Conditions: OKAY

Location: Bonwell - Newnan

Prime Contractor's Personnel: JOE LEWIS

Subcontractors on the Site: FOUR SEASONS

Visitors: _____

Hours On Site: Contractor _____ EMCON 4 Other _____

Progress: FOUR SEASONS BEGAN ^{FOURTH} LIFT THIS MORNING; THIS LIFT WILL CONSIST OF SQUISHED MATERIAL. ~~THIRD~~ LIFT CONSISTED OF FINDER CAKE AND LIFT SEVEN BE APPROX ~~10~~ 12" THE, INSTALLED IN 6" LIFTS WITH CEMENT CUT IN AND COMPACTED @ EACH 6" LIFT. TOOK DRIVE PING & BREAK TEST PLUGS FROM TOP OF SECOND LIFT BEFORE THEY BEGAN INSTALLING THIRD LIFT. FOUR SEASONS CONTINUES TO OPERATE BALLE AND RND FINDER PRESSES. ONE OF THE THREE FINDER PRESSES HAS A MECHANICAL PROBLEM WITH SEALING CYLINDER AND THEY PLAN TO REMOVE THE CYLINDER AND CARRY TO ATLANTA FOR REPAIR. THEY CONTINUE TO OPERATE FIVE CONCRETE EXCAVATOR TO PLACE SQUISHED MATERIAL AND BLADE DOZER TO SPREAD IT WITH DISC HARROW TO DISK IN FROM AUST AND SHEEPSFOOT COMPACTOR TO COMPACT BETWEEN LIFTS. THEY ARE NOW UTILIZING FORD LIFT TO MOVE FINDER (FOR SEASON) MATERIAL FROM FINDER PRESS HANDLING TRUCK AREA. THIS MATERIAL IS BEING PLACED BACK INTO PAVING PAVO TO BE SQUISHED LATER. PERFORMED THIRD LIFT WITH SHEEPSFOOT. DID 3-DAY BREAK TESTS & CHECKED DEWATER WELLS.

JOE LEWIS - TECH.

Prepared By: EMCON Southeast

Reviewed By: EMCON Southeast



EMCON Southeast

DAILY REPORT

Report #: No 012

Route To: Master - White (Original)
On-Site - Yellow
Project Manager - Pink

Date: Oct. 4, 19 93
Contract Day _____ of _____
Time Enter Site 0700
Time Leave Site 1900

Project Name: BONNELL SORE, Imp. Closure

Project #: 2040.009.92

Weather: Clear, Warm

Mean Temp. 82°

Working Conditions: OKAY

Location: BONNELL NOUNN

Prime Contractor's Personnel: Joe Lewis, Brian Bellhite

Subcontractors on the Site: Four Seasons, Patton Construction

Visitors: DAVE GOODRICH - EMCON

Hours On Site: Contractor _____ EMCON 12+ Other _____

Progress: FOUR SEASONS CONTINUED PLACING FOURTH LIFT CONSISTING OF SOLIDIFIED MATERIAL. EQUIPMENT CONSISTS OF ONE LONG REACH EXCAVATOR, ONE 14 BARGE ROLLER, ONE DISC HARROW & TRACTOR, AND ONE BOMAG 84172 P08 PAKER. THIS LIFT APPEARED TO BE PRETTY OK, SO NO CEMENT JUST WAS CUT IN. BARGE IS STILL SUPPLYING THREE FILTER PRESSES WITH SLINGS. FOUR SEASONS CONTINUES TO HAVE MECHANICAL PROBLEMS WITH ONE OF THE PRESSES. THEY COMPLETED FIFTH LIFT THIS AFTERNOON AND TOOK DRIVE PINS AND SHELLEY TUBES FOR BREAK TESTS. ALSO PAKE ROLLED SITE WITH BOMAG PAKER. DISCOVERED PITHING AT NORTHEAST END BUT REMAINDER OF SITE COOKED GOOD. WARE FOUR SEASONS AWARE OF THIS AND THEY SAID THEY WOULD PAK SITE AGAIN TOMORROW MORNING TO TRY AND TIGHTEN MATERIAL AS REQUIRED. ASSISTED BOMAG OPERATIONS OF BONNELL 15 LANE LIVES/ALUM. GRASP EXCAV. BRIAN WAS FOUND FROM CGC. HE TOOK SHELLEY TUBES COLLECTED YESTERDAY, TO EXTEND AT CGC. AN ATTEMPTING TO LOCATE EXTENDER FOR FIELD OFFICE SINCE UNIT TO EXTEND SHORT TUBES IS NOT AVAILABLE. WILL REPORT. PERFORMED FIELD DENSITY TEST ON DRIVE PINS COLLECTED YESTERDAY.

Joe Lewis - TECH.

Prepared By: EMCON Southeast

Reviewed By: EMCON Southeast



EMCON Southeast

DAILY REPORT

Report #: Nº 013
 Date: OCT. 5, 19 93
 Contract Day _____ of _____
 Time Enter Site 0700
 Time Leave Site 1900

Route To: Master - White (Original)
 On-Site - Yellow
 Project Manager - Pink

Project Name: BONNELL SUBF. IMP. CLOSING Project #: _____
 Weather: Clear, Warm Mean Temp. _____
 Working Conditions: OKAY
 Location: BONNELL - NEWMAN
 Prime Contractor's Personnel: JOE LEWIS - DAVE RICHTER
 Subcontractors on the Site: FOUR SEASONS, PRICHON CONSTRUCTION
 Visitors: DAVE GOODRICH, DAVE RADZIETA - EMCON
 Hours On Site: Contractor _____ EMCON _____ Other _____

Progress: FOUR SEASONS REPAKED FOURTH LIFT OF SOLIDIFIED MATEL. WITH BOMAR Packer AT NORTHEAST END OF SETTLING POND. PROOF ROLLED AGAIN AND STILL NOTICED PUMPLING. PROOF ROLLED WITH BOMAR Packer. REQUESTED THEY REMARK THAT PORTION OF LIFT SO THEY CUT APPROX. 6" OFF, PLACED CEMENT DUST AND CUT IN WITH HARROW (DISC) AND PACKED LIFT @ 6" AND THEN ADDED REMAINING 6" AND CUT IN AGAIN AND PACKED. DAVE RICHTER OF EMCON WAS DOWN TO WITNESS PROOF ROLL AFTER THIS OPERATION AND HE INDICATED IT WAS STILL PUMPLING. REQUESTED FOUR SEASONS REMARK THIS AREA AGAIN. IT APPEARS WE WILL NEED TO CUT MORE DUST IN SOLIDIFIED PIE AS WE GET INTO DAMPER STOCKPILED MATERIAL. SHOW ELEVATIONS ON WATER AT SOUTHWEST CORNER OF SETTLING POND. IT APPEARS TO BE RISING ENOUGH TO GET INTO CLAY BOTTOM ABOVE SURGE STONE. HAD CUT PUMPLING 36" SUMP OFF TO SEE HOW MUCH RISE WE WOULD GET. CUT IT BACK ON TODAY. FOUR SEASONS OPERATED CASE REACHER EXCAVATOR, D-4 BLADE DOZIER, BOMAR Packer, TRAXX W/ DISC HARROW. WORKED UP FUEL DENSITY TEST DRIVE RIGS TAKEN YESTERDAY, AFTERNOON AND DID TWO SEVEN DAY BREATHS. DAVE RICHTER TOOK SHELBY TUNES TO EXTENSIVE AT CGC.
JOE LEWIS - TECH.

Prepared By: EMCON Southeast

Reviewed By: EMCON Southeast



EMCON Southeast

DAILY REPORT

Report #: No 014
Route To: Master - White (Original)
On-Site - Yellow
Project Manager - Pink
Date: Oct 6, 19 93
Contract Day _____ of _____
Time Enter Site 08:30
Time Leave Site 16:00

Project Name: Bonnell - Impoundment Closure Project #: 2040.009.92

Weather: P-Cloudy - slight wind Mean Temp. _____

Working Conditions: _____

Location: Newnan, GA / Polishing Pond & Settling Pond - Bonnell Plant

Prime Contractor's Personnel: Brian Dolwhite

Subcontractors on the Site: 4 Seasons, Payton & Sons

Visitors: _____

Hours On Site: Contractor _____ EMCON _____ Other _____

Progress: 4 Seasons contd. pumping material from the polishing pond through the filter press system and producing filter cake. Also contd. placement and compaction of solidified material in $\pm 12"$ lifts in the settling pond. 4 Seasons is disc harrowing portland cement into the lifts ~~and~~ each 6" as needed. 4 Seasons experiencing difficulty achieving compaction in the southeast corner of the settling pond. Having to disc in portland cement several times and recompacting to remedy areas of pumping. I performed compressive strength tests four different samples from 10/3/93. 4 Seasons completed reworking of the southeast corner of the settling pond where solidified material lift was pumping. Proofrolling showed area to be compacted w/no significant areas of pumping. Padfoot compactor leaving $1/2"$ - $1"$ depressions upon completion of compacting the lift. Informed Mike Thompson (4 Seasons) that they should plan on add-mixing portland in every lift in order to meet compaction and strength requirements.

Brian Dolwhite

Prepared By: EMCON Southeast

Reviewed By: EMCON Southeast



EMCON
Southeast

DAILY REPORT

Report #: No 015

Route To: Master - White (Original)
On-Site - Yellow
Project Manager - Pink

Date: Oct. 7, 19 93
Contract Day _____ of _____
Time Enter Site 0700
Time Leave Site 1900

Project Name: Brownsville Imp. Closure

Project #: 2040.002.92

Weather: Clear to PC

Mean Temp. 80°

Working Conditions: OKAY

Location: Brownsville - Newland

Prime Contractor's Personnel: Joe Cejusz, Adonia, Dave Gonzalez, Nelson

Subcontractors on the Site: Four Seasons, Peyton Const.

Visitors: _____

Hours On Site: Contractor _____ EMCON _____ Other _____

Progress: Four Seasons continues pumping material from Polishing and with Barge through the three filter presses. They were having mechanical problems with the barge and littered on it a lot today. They continued placement and compaction of sand-filled material for fifth lift. Had to take samples of finished area for compaction & strength before they covered it up. They continue utilizing one Cat. 325H excavator, one D-4 blade loader, one boom pump, and tractor with D-5 harrow to place material. Adonia (son of Joe Cejusz) was down today from EMCON working on continuing PAI and APU route for Brownsville. Gave him tour of the facility pointing out exits and other areas of interest. Adonia was down today to work with fine tuning de-water lines. Explained the filtering portion of the system to her and showed her how to change sock filters. Worked on shear tube extractor for food office. Finished up soil density tests started yesterday and performed breaks are today.

Joe Cejusz - TECH

Prepared By: EMCON Southeast

Reviewed By: EMCON Southeast



EMCON Southeast

DAILY REPORT

Report #: No 016

Route To: Master - White (Original)
On-Site - Yellow
Project Manager - Pink

Date: Oct. 8, 19 93
Contract Day _____ of _____
Time Enter Site 0700
Time Leave Site 1900

Project Name: BOWELL SUFF. IMP. CAPTURE Project #: 2040-CO9. 92

Weather: PC Mean Temp. 80°

Working Conditions: OKAY

Location: BOWELL - NEWMAN

Prime Contractor's Personnel: JOE CELIX, ADONIA, DAVE BUXHALTER

Subcontractors on the Site: FAVE SERRANO, PRYTON CONST.

Visitors: _____

Hours On Site: Contractor _____ EMCON _____ Other _____

Progress: FOUR SERRANO CONTAINERS PUMPING MATERIAL FROM
PULSHING POWD THRU THREE FILTER PRESSES VIA THE BAGGE.
THEY CONTINUED PLACEMENT AND COMPACTION OF SOLIDIFIED
MATERIAL FOR FIFTH LIFT WORKING IN 6" LIFTS AND CUTTING
DUST IN WITH D-7 BLADE DOZIE AND TRAXOR & HARROW
AND PACKING WITH BOMAG PERFECT PAKER BETWEEN LIFTS.
UTILIZED LOAN REACH EXCAVATOR TO MOVE MATERIAL AND ALSO
DUST BOX WHEN TRUCKS WERE UNLOADING. STANDPIPE INDICATES
WATER LEVEL IS NOW IN CAY, SO HOOKED UP SECOND RIM IN 36" DIA.
SWAMP IN SETTLING AND ALSO MOVED PUMP FROM WELL DW-10 TO
6" STANDPIPE TO TRY AND DROP WATER LEVEL UNDERGROUND IN
SETTLING POND. WELL DW-10 PROVIDED VERY LITTLE WATER ANYWAY.
EXTRUDED SHERMAN TUBES COLLECTED YESTERDAY WITH NEW EXTRUDER
ADONIA DE ANCA WAS DOWN TODAY TO WORK ON TANKS AND DRAINAGE
CHUBS. SHE IS HAVING PROBLEMS GETTING THEM TO STABILIZE. DAVE
BUXHALTER DE ANCA WAS ALSO DOWN TODAY WORKING ON BOWELL
CONTINGENCY & REMEDIATION PLANS. TUBED FACILITY WITH HIM LOCATING STROOD
POTENTIALLY HAZARDOUS MATERIALS

JOE CELIX - TECH.

Prepared By: EMCON Southeast

Reviewed By: EMCON Southeast



EMCON Southeast

DAILY REPORT

Route To: Master - White (Original)
On-Site - Yellow
Project Manager - Pink

Report #: No 017

Date: Oct. 9, 19 93

Contract Day _____ of _____

Time Enter Site 0830

Time Leave Site 1300

Project Name: BOWNE SURF. IMP. CLOSURE Project #: 2040.009.92
Weather: Clear Mean Temp. 80°

Working Conditions: OKAY

Location: BOWNE - ALEXANDER

Prime Contractor's Personnel: JOE LEWIS

Subcontractors on the Site: FAIR SEASONS

Visitors: _____

Hours On Site: Contractor _____ EMCON _____ Other _____

Progress: FAIR SEASONS CONTINUES PUMPING MATERIAL FROM
DOLLYWOOD POND THRU THREE FILTER PRESSSES VIA THE BACK
FILTER DRAIN IS BEING STOCK PILED AGAIN WITH GRAVELS ROAD
TO START A LIFT OF FT. FIFTH LIFT OF SOLIDIFIED MATERIAL
WAS DONE COMPACTED WITH CONCRETE EXCAVATOR THIS MORNING.
PROOF ROLLED ENTIRE LIFT WITH WITH PROOF COMPACTOR AND FOUND
NO SIGNIFICANT AREAS OF PUMPING. TOOK FIVE DENSITY RING AND
TWO SHARP TUBE SAMPLES AT RANDOM LOCATIONS. FOUR
SEASONS THEN BEGAN SIXTH LIFT CONSISTING OF SOLIDIFIED
MATERIAL. THEY WILL WORK THIS LIFT IN 6" LIFTS DISCING IN
FIRST AND COMPACTING WITH PROOF EVERY 6" OF LIFT. THEY
ARE USING LONG REACH EXCAVATOR TO TRANSFER MATERIAL
FROM LOW SLOPE AND D-4 BLADE DOZER TO SPREAD AND
TRACTOR WITH DISC HARROW TO CUT IN FIRST.

JOE LEWIS - TECH.

Prepared By: EMCON Southeast

Reviewed By: EMCON Southeast



EMCON Southeast

DAILY REPORT

Route To: Master - White (Original)
On-Site - Yellow
Project Manager - Pink

Report #: No 018
Date: Oct. 10, 19 93
Contract Day _____ of _____
Time Enter Site 1300
Time Leave Site 1530

Project Name: BONNELL SURF. IMP. CLOSURE

Project #: 2040.009.92

Weather: CLERK

Mean Temp. _____

Working Conditions: OKAY

Location: BONNELL - WILLOW

Prime Contractor's Personnel: JELEWIS

Subcontractors on the Site: FOUR SEASONS

Visitors: _____

Hours On Site: Contractor _____ EMCON _____ Other _____

Progress: FOUR SEASONS CONTINUED PUMPING MATERIAL FROM POLLUANT POND THEN THREE FILTER PRESSES VIA THE BACK. FILTER CAKE CONTINUES TO BE STOCKPILED. FOUR SEASONS UTILIZED LONG REACH EXCAVATOR, D-4 BLADE MIXER, AND TRACTOR WITH CULTIVATORS TO INSTALL SIXTH LIFT CONSISTING OF SOLIDIFIED MATERIAL. THEY CONTINUE TO INSTALL 12" C/LTS CUTTING FIRST IN EVERY C/LT AND PACKING BETWEEN C/LTS. DID SEVEN DAY BREAK TESTS TODAY. PSI CONTINUES TO BE MUCH LESS THAN DESIRED. MATERIAL CONSISTENCY VARIES FROM VERY DRY WITH ADDED DUST TO VERY DAMP. THROUGHOUT THE WHOLE RANGE THE PSI RATING CONTINUES TO BE LOW. IT APPEARS THE MATERIALS ARE DEALING WITH REACTS DIFFERENTLY THAN SOIL CEMENT MIXTURE.

JELEWIS - TECH.

Prepared By: EMCON Southeast

Reviewed By: EMCON Southeast



EMCON Southeast

DAILY REPORT

Report #: No 019

Route To: Master - White (Original)
On-Site - Yellow
Project Manager - Pink

Date: Oct. 11, 19 93
Contract Day _____ of _____
Time Enter Site 0700
Time Leave Site 1900

Project Name: BONWELL SURF. IMP. CLOSURE Project #: 2040.009.92
Weather: P.C. WARM Mean Temp. 80°
Working Conditions: OKAY
Location: BONWELL - NEWMAN
Prime Contractor's Personnel: JOE COWLES, ADDONIA, BRIAN DEWILITE
Subcontractors on the Site: FOUR SEASONS, PAYTON CRIST
Visitors: _____
Hours On Site: Contractor _____ EMCON _____ Other _____

Progress: FOUR SEASONS CONTINUED WORKING ON SIXTH LIFT OF SANDFILL MATERIAL. HAD A SOFT SPOT UNDER CONVEYOR DISCHARGE FROM FILTER PRESS SO THEY CUT THAT SPOT OUT AND REWORKED CONTINUED IN DIRT. FOUR SEASONS UTILIZED LONG REACH EXCAVATOR, BOMAS PAILER, 1-4 BLADE DOZER AND TRACTOR WITH DISC HARROW TO CUT IN DIRT. HAD CONTRACTOR MEETING THIS MORNING. TERRY SWELL INDICATED HE THOUGHT HE HAD ASKED FOR MORE SAMPLING ON FILTER PRESS EFFLUENT BUT MESSAGE WASN'T RECEIVED HERE SO TINKU START A SEVEN DAY 24 HOUR A DAY COMPOSITE SAMPLING PROGRAM OF FILTER PRESS EFFLUENT STARTING TODAY. ADDONIA WAS DOWN TODAY TO WORK ON DENATOR WEIR AGAIN. SHE CAN'T SEEM TO GET STABLE WATER LEVELS IN THE WEIR. LOOKS LIKE IT MAY TAKE A MORE SOPHISTICATED SYSTEM THAN THE ONE WE HAVE. BRIAN WAS ALSO DOWN TODAY. HE BROUGHT SOME REVISED FORMS FOR BEAR TESTS AND FIELD DENSITY TESTS. DID UNCONFINED COMPRESSIVE STRENGTH TESTS AND MOISTURE DENSITY TESTS TODAY. FOUR SEASONS OPERATED BARGE AND THREE FILTER PRESSES.

JOE COWLES - TECH.

Prepared By: EMCON Southeast

Reviewed By: EMCON Southeast



EMCON Southeast

DAILY REPORT

Report #: No 020
Date: Oct. 12, 19 93
Contract Day _____ of _____
Time Enter Site 0700
Time Leave Site 1900
Route To: Master - White (Original)
On-Site - Yellow
Project Manager - Pink
Project Name: Bonnie Gulf Imp. Closure Project #: 2040-009.92
Weather: Clear & Warm Mean Temp. 65°
Working Conditions: Okay
Location: FAIRFUEL - NEWMAN
Prime Contractor's Personnel: Joe Lewis, ADONIA
Subcontractors on the Site: FOUR SEASONS - PAYTON CONSTRUCTION
Visitors: _____
Hours On Site: Contractor _____ EMCON _____ Other _____

Progress: FOUR SEASONS OPERATED BARGE AND THREE FILTER PRESSES.
FILTER CAKE SEEMED A LITTLE SLIPPERY TODAY THAN USUAL. THEY ARE
HAVING PROBLEMS GETTING ENOUGH BUST FROM SUPPLIER IT SEEMS
AND MAY BE GOING LEAN ON ADDING BUST. THAT ELEVATIONS ON FOURTH,
FIFTH, & SIXTH LIES THIS MORNING. FOUR SEASONS BEGAN EXCAVATING
SOLIDIFIED MATERIAL FROM FINAL SECTION OF UNFINISHED BOTTOM SO
WE CAN GET BOTTOM FINISHED UP. I WILL STICKLE FILTER CAKE UNTIL
THIS IS COMPLETE. TOOK DRIVE RINGS AND SHELBY TUBES FROM SIXTH
LIEF BEFORE THEY GOT IT COVERED WITH SICKLE AND MATERIAL.
FAKED SURVEY INFO. FROM THIS MORNING TO BEAN AT C&C. SO HE COULD
GO AHEAD AND CURE UP C&D TO FILL UP LKUMES. ALSO FAKED FIELD
DEVEITY REPORTS TO TERRY, MAKES SO HE CAN HAVE MORE DATA FOR
PERFOR CURVES. GATHERED COMPOSITE SAMPLES OF FILTER PRESSES
EFFLUENT AND SINCE ASI WAS DOWN TODAY I GOT THEM TO TAKE
SAMPLES B&D WITH THEM. UTILIZED BOWELL DISSOLUTION OXYGEN
METER TO CHECK D.O., ALSO GOT PH, S.C., & TEMP. (ALSO SIGNED SAMPLING
REQUEST FORM IN TERRY SWELL'S ABSENCE.

Joe Lewis - EMCON TECH

Prepared By: EMCON Southeast

Reviewed By: EMCON Southeast



EMCON Southeast

DAILY REPORT

Report #: Nº 021

Route To: Master - White (Original)
On-Site - Yellow
Project Manager - Pink

Date: Oct 13, 19 93
Contract Day _____ of _____
Time Enter Site 0700
Time Leave Site 1900

Project Name: BONNELL STRE. IMP. CLOSING Project #: 2040.009.92
Weather: Clear, Warm Mean Temp. 70°
Working Conditions: OKAY
Location: BONNELL - NEWMAN
Prime Contractor's Personnel: Joe Lewis
Subcontractors on the Site: FOUR SEASONS, PACITON CONSTR.
Visitors: _____
Hours On Site: Contractor _____ EMCON _____ Other _____

Progress: FOUR SEASONS OPERATED RABE AND THREE FILTER
PRESSES. FILTER CASE CONTINUES TO BE STOCKPILED WHILE THEY
EXCAVATE SOLIDIFIED MATERIAL FROM AREA OF BOTTOM OF SETTLING
POND THAT HAS NOT BEEN FINISHED WITH STONE, FABRIC & CLAY.
THEY UTILIZED LONG REACH EXCAVATOR AND D-4 BLADE DOZERS TO
WORK THIS AREA. COLLECTED EFFLUENT SAMPLES (COMPOSITE)
FROM FILTER PRESSES OF FOUR SEASONS AND SENT TO ASI LAB
FOR NPDES PARAMETER TESTING. THIS IS SECOND OF SEVEN
TO BE TAKEN. CHECKED DEWATER. SYSTEM AND GOT METER
READINGS. EXTENDED ALL SAMPLES FROM. SHEAR, TUBES
COLLECTED YESTERDAY. SAMPLES WITH EXCESSIVE FINEST AND
NORMAL DEBRIS IN LIFT TEND TO MAKE THEM VERY BRITTLE
AND IN MY OPINION AFFECT THE STRENGTHS OBTAINED IN
BREAK TESTS. DID ONE DAY BREAK TESTS ON SAMPLES COLLECTED
YESTERDAY.

Joe Lewis - TECH.
Prepared By: EMCON Southeast

Reviewed By: EMCON Southeast



EMCON Southeast

DAILY REPORT

Route To: Master - White (Original)
On-Site - Yellow
Project Manager - Pink

Report #: No 022
Date: Oct 14, 19 93
Contract Day _____ of _____
Time Enter Site 0700
Time Leave Site 1900

Project Name: BANNER SWF, LMA, Closure Project #: 2040.009.92
Weather: Overcast & Light Rain Mean Temp. _____
Working Conditions: WET
Location: BANNER - NEZUMIA
Prime Contractor's Personnel: JOE LEWIS, BELAND
Subcontractors on the Site: FOUR SEASONS
Visitors: _____
Hours On Site: Contractor _____ EMCON _____ Other _____

Progress: FOUR SEASONS OPERATED BARGE AND THREE FILTER PRESSES.
FILTER PRESSES CONTINUED TO BE SERVICED WHILE THEY EXCAVATE SLUDGING
MATERIAL FROM AREA OF SETTLING POND BOTTOM THAT HAS NOT BEEN
FINISHED WITH FASER, GORE & CLAY. SURPRISINGLY WE ARE NOT ENCOUNTERING
THE WATER WE DID WITH PREVIOUS BOTTOM EXCAVATION. CREDIT THIS TO PUMPING
FROM TWO SUMPS (LOCATED WITHIN THE SETTLING POND). FOUR SEASONS CHANGED
LONG REACH EXCAVATOR AND D-4 BLADE DOZER. THEIR CASE 1450 BARGE
DOZER WAS RETURNED FROM REPAIR THIS MORNING BUT WAS NOT USED TODAY.
COMPOSITE SAMPLES OF 24 HOUR COMPOSITE OF FILTER PRESS EFFLUENT
WAS COLLECTED AGAIN TODAY AND ASILARS PICKED THEM UP. BARGE WAS LAID
FROM GGC AND WE WENT OVER PREVIOUS & SOIL CENSUS TESTING AND
DID ONE REGULAR SHERIDAN VAX-4000 COMPRESSION TEST. EXPERIMENTED
WITH 16 DAY FLO SAMPLE TO SEE WHAT STRENGTH IT HAD. (57 PSI) DID FLO
DENSITY TESTS ON DOWIE RINGS COLLECTED 10-12-93. COLLECTED METER
DATA ON NEWATER SYSTEM.

JOE LEWIS - TECH.

Prepared By: EMCON Southeast

Reviewed By: EMCON Southeast



EMCON Southeast

DAILY REPORT

Report #: No 023

Route To: Master - White (Original)
On-Site - Yellow
Project Manager - Pink

Date: OCT. 15, 19 93
Contract Day _____ of _____
Time Enter Site 0700
Time Leave Site 1900

Project Name: BONWELL SURF. IMP. CLOSURE Project #: 2040.009.92
Weather: OVERCAST Mean Temp. _____
Working Conditions: OKAY
Location: BONWELL - NEWMAN
Prime Contractor's Personnel: JOE LOUIS, DAVE BUCHALTER
Subcontractors on the Site: FOUR SEASONS, PAYTON CONSTRUCTION
Visitors: _____
Hours On Site: Contractor _____ EMCON _____ Other _____

Progress: FOUR SEASONS COMPLETED CLEANING BOTTOM OF SETTLING POND IN IDENTIFIED AREA OF PREVIOUS SOLIDIFIED MATERIAL STACKS. SURF ELEVATIONS ON BOTTOM. WAS STILL VEINS OF SLUDGE THAT FOUR SEASONS PLANNED TO REMOVE. THEY ACTUALLY WENT BACK INTO BANK. AS IT TURNED OUT, THEY EXCAVATED AN ADDITIONAL 12' X 18" IN AN AREA OF APPROX. 30' X 75'. THE MAJOR PORTION OF THIS BOTTOM WORK WAS COVERED WITH LAYER OF CONCRETE DUST, FABRIC, AND CLAY, WITH THE EXCEPTION OF THE AREA OF VEINS OF SLUDGE WHERE DUST, FABRIC, SOME STONE, CONCRETE RIV, DUST, CLAY & DUST CUT INTO TOP 6" OF CLAY WAS REMOVED. (30' X 75' FOUR SEASONS CONTINUES TO OPERATE BARGE AND THREE FLUX PRESS. BEGINNING TO GET QUITE A STOCKPILE OF FILTER CAKE. COLLECTED FILTER PRESS EFFLUENT SAMPLES TO GO TO LAB. TERRY SUELL INDICATED THAT 5 SAMPLES WOULD BE ADEQUATE TO COMPLETE THIS ROUND OF SAMPLES. SELECTED RANDOM FILTER CAKE FOR ANALYSIS OF TOTAL SOLIDS & SPECIFIC GRAVITY (FC-16, FC-21, & FC-26) DAVE BUCHALTER WAS DOWN TODAY AND COLLECTED ALL SAMPLES TO LAB. DID TODAY'S SUBMERGED BREAK TESTS AND COMPLETED AEROSOL TESTS STARTED YESTERDAY. DAVE BUCHALTER & I DISCUSSED COW BREAK STRENGTHS WE ARE GETTING.

* JOE LOUIS - TECH.

Prepared By: EMCON Southeast

Reviewed By: EMCON Southeast



EMCON Southeast

DAILY REPORT

Report #: No 024

Route To: Master - White (Original)
On-Site - Yellow
Project Manager - Pink

Date: Oct. 16, 19 93
Contract Day _____ of _____
Time Enter Site 0800 & 1700
Time Leave Site 1000 & 1800

Project Name: Bowen Surf. Imp. Closure Project #: 2040.009.92
Weather: Overcast - Light Rain Mean Temp. _____
Working Conditions: DETH
Location: Bowen - Norman
Prime Contractor's Personnel: Joe Lewis
Subcontractors on the Site: Four Seasons, Peyton Construction
Visitors: _____
Hours On Site: Contractor _____ EMCON _____ Other _____

Progress: FOUR SEASONS COMPLETED PULVING CLAY IN FINAL UNCOMPACTED
SECTION OF SETTLING POND BOTTOM IN AREA OF PREVIOUS SOLIDIFIED
MATERIAL SURFACE. THEY HAD PLANNED TO HAVE THIS COMPLETE BY
THIS MORNING BUT ADDITIONAL EXCAVATION OF SWIRL AND NEED TO
PLACE SWIRL STONE & CRUSHER RUN UNDER CLAY PUT THEM A LITTLE
BEHIND SCHEDULE. THEY CONTINUE TO OPERATE BARGE AND THREE FUR
PRESSER PRODUCE FILTER CAKE. CONTINUE TO STORAGE FILTER
CAKE. SETTLING POND BOTTOM BECOMING VERY CONGESTED WITH
EXCAVATED SOLIDIFIED MATERIAL AND STOCKPILED FILTER CAKE.
RETURNED THIS EVENING TO CHECK ON PROGRESS AND NO REGULAR
SCHEDULED BARGE TESTS.

Joe Lewis - Tech.
Prepared By: EMCON Southeast

Reviewed By: EMCON-Southeast



EMCON Southeast

DAILY REPORT

Route To: Master - White (Original)
On-Site - Yellow
Project Manager - Pink

Report #: No 025
Date: Oct. 17, 19 93
Contract Day _____ of _____
Time Enter Site 0830
Time Leave Site 1230

Project Name: BONWELL SORE. IMP. CLOSURE Project #: 2040.009.92
Weather: Overcast Mean Temp. _____
Working Conditions: OKAY
Location: BONWELL - NEWMAN
Prime Contractor's Personnel: JG Lewis
Subcontractors on the Site: FOUR SEASONS
Visitors: _____
Hours On Site: Contractor _____ EMCON _____ Other _____

Progress: SILT ELEVATIONS ON PREVIOUSLY COMPLETED PORTION OF BOTTOM
OF SETTLING POND WHERE SOLIDIFIED MATERIAL WAS STOCKPILED. FIVE
SHOTS WERE ON FINISHED CLAY BOTTOM. TEST TWO DRIVE RINGS
AND TWO FIELD DENSITY TESTS. ATTAINED 100% AND 102% COMPACT.
RESP. FOUR SEASONS AGAIN PLACING LIFTS OF SOLIDIFIED MATERIAL
ON FINISHED BOTTOM.

JG LEWIS - TECH.
Prepared By: EMCON Southeast

Reviewed By: EMCON Southeast



EMCON Southeast

DAILY REPORT

Report #: Nº 026

Route To: Master - White (Original)

On-Site - Yellow

Project Manager - Pink

Date: Oct. 18, 19 93

Contract Day _____ of _____

Time Enter Site 0700

Time Leave Site 1830

Project Name: BOWELL SURF-IMP. CLOSURE

Project #: 2040.009.92

Weather: Partly Cloudy, Warm

Mean Temp. 85

Working Conditions: OKAY

Location: BOWELL - NEWMAN

Prime Contractor's Personnel: JOE LEWIS, BRIAN D.

Subcontractors on the Site: FOUR SEASONS

Visitors: _____

Hours On Site: Contractor _____ EMCON _____ Other _____

Progress: Monday, Morning Contractors Meeting was more brief today, things seem to be going smoother in one respect but maybe not in another. Ted, still talked with Brian & I. He expressed concern that Four Seasons was not paying their sub contractors and local expenditures where they have charged materials and are not paying in a timely manner. He requests we print check daily financial reports and Brian will sign off on these. Four Seasons completed first lift of solidified material in final, north west section prepared bottom of settling pond. Puff failed with compactor and looked good except for one section which Four Seasons was requested to rework. They cut more dirt in and disc harrowed it in and repacked but it still did not puff roll satisfactorily. So had them excavate this section out with excavator to curb and replace 12" lifts cutting in more dirt. Puff rolled okay after this rework. Took two diving rings for field density tests and 6 Shelby tubes for break tests. Compaction was 94% & 97%. Did regularly scheduled break tests. Board down today from CGC. Four Seasons began second lift of solidified material. Reminded them to bench into exist. lifts and bank for extra strength of lifts.
Joe Lewis - Tech.

Prepared By: EMCON Southeast

Reviewed By: EMCON Southeast



EMCON Southeast

DAILY REPORT

Report #: No 027

Route To: Master - White (Original)
On-Site - Yellow
Project Manager - Pink

Date: Oct. 19, 19 93
Contract Day _____ of _____
Time Enter Site 0700
Time Leave Site 1930

Project Name: Bonwell Surf. Imp. Closure Project #: 2040-071.92
Weather: Partly Cloudy - Warm Mean Temp. 85°
Working Conditions: OKAY
Location: BONWELL - NEWMAN
Prime Contractor's Personnel: JOE LEWIS - DAVE RANZIETA
Subcontractors on the Site: FOUR SEASONS
Visitors: _____
Hours On Site: Contractor _____ EMCON _____ Other _____

Progress: FOUR SEASONS COMPLETED SECOND LIFT "A" OF SOLIDIFIED MATR.
10 NORTH EAST PARTIAL FINAL COMPLETED BOTTOM. PUMP ROLLED WITH
CORNER COMPACTOR WITH NO REMAINING PRESENT AND SHEEPFOOT BRASSY INSERTED
THE SURFACE. TOOK THIRD DRIVE RINGS AND SIX SHEET PILES FOR BREAK
TESTS. COMPACTION TEST SHOWED 98% AND 102% COMPACTION. CHECKED
FILTER PRESS VOLUME WHEN STACK DIE WAS REMOVED FROM END OF BEST AND
FIRST PRESS DUMPED. CONICAL PILE MEASURED 9' DIA X 5' HIGH. FILTER CASE LOOKED
ALITTLE WET AND BARING INDICATED HE HAD INJECTED THE NEW TO STOP THE
CHEMICALS UP SOME TO DO THE CASE. NOTED PAYMENT POST. PULSED THE 6" OF
PIPE COMING INTO SETTING FROM FRA. PULSED WITH SET 45 LESTERDAY.
NO REGULAR SCHEDULED BREAK TESTS FOR TODAY AND EXTENDED ALL
SHEET PILES ON HAND. DAVE RANZIETA VISITED TODAY WORKING ON AS
BUILT DRAINAGE ON DEWATER SYSTEM. HAD TO GO OVER THE SYSTEM
WITH HIM AND ANSWER QUESTIONS. FOUR SEASONS WORKED HARD ON
THIRD LIFT "A" OF SOLIDIFIED MATERIAL TO TOP AND HAVE IT READY FOR TESTING
TOMORROW BUT DUE TO PUMPING IN A CHARGE OF AREA IT WAS
DECIDED TO LET IT CURE OVERNIGHT AND RECHECK TOMORROW MORNING.

JOE LEWIS - TECH

Prepared By: EMCON Southeast

Reviewed By: EMCON Southeast



EMCON Southeast

DAILY REPORT

Report #: No 028

Route To: Master - White (Original)
On-Site - Yellow
Project Manager - Pink

Date: Oct. 20, 19 93
Contract Day _____ of _____
Time Enter Site 0700
Time Leave Site 1700

Project Name: BOWEN SOFT. IMP. CHARGE

Project #: 2040-009.92

Weather: Partly Cloudy - Warm

Mean Temp. 85°

Working Conditions: OK

Location: BOWEN - NEZUMI

Prime Contractor's Personnel: JOE LEWIS, BEIRN DOLITE, DAVE BATHART

Subcontractors on the Site: FOUR SEASONS

Visitors: _____

Hours On Site: Contractor _____ EMCON _____ Other _____

Progress: PIPE ROLLED THIRD LIFT "A" AGAIN THIS MORNING AND THERE WAS STILL PUMPING FROM IN A COUPLE OF FEET SO FOUR SEASONS CUT THIS AREA BACK OUT AND RE-GUSTED, DSR HARRISON AND RECOMPACTED. PIPE ROLLED AGAIN AFTER RECOMPACTING EFFORTS AND STILL FOUND A COUPLE OF FEET WITH QUESTIONABLE COMPACTION. MIKE FOUR SEASONS GERALD AND MIKE ADVISED OF MARSHAL COMPACTION AND GAVE THEM THE OPTION OF GOING AHEAD WITH NEXT LIFT OR CUTTING OUT SECOND AGAIN AND REWORKING. SINCE THEY ARE GUARANTEED BOTTOM THEY CHOSE TO REWORK AGAIN. AFTER REWORKING FOR THE THIRD TIME STILL FOUND SPONGY AREA IN VICINITY OF SUSPECTED STREAMBED COMING FROM BANK AT WASTEWATER TREATMENT AREA. REEXAMINED THE ENTIRE SITE AND FOUND UNDERLYING MATERIAL PRETTY WET. IT'S DOUBTFUL IN MY OPINION THAT THE PERMANENT TAILING WITH WICKING FROM THE OLD STREAMBED IN THE BANK BUT IT APPEARS THAT THICKER WITH THE OPERATOR THAT THIS LIFT MAY HAVE BEEN PUT IN THICKER THAN 6" AND DUST MAY HAVE NOT BEEN CUT IN SATISFACTORY DUE TO THE THICK LIFT. FOUR SEASONS GERALD AND MIKE EXPRESSED CONCERN WITH THE TIME IT'S TAKING TO FINISH LIFTS AND FURTHER CAKE STACKING BACKLOG. THEY CALLED A MEETING WITH TERRY SWAN AND TERRY REQUESTED BEIRN & DAVE ATTEND THIS MEETING. I FEEL THEY WERE GOING TO FEEL TERRA OUT TO SEE IF HE WOULD RELEASE THEM FROM THE GUARANTEED BOTTOM. IT THAT DID NOT HAPPEN, DID COME RING COMPACTION TESTS & GOT 97% WITH 81% GW SOFT AREA.
JOE LEWIS - TELH.

Prepared By: EMCON Southeast

Reviewed By: EMCON Southeast

AFTER REWORKING GOT 98% FROM THIS AREA WAS 81% AREA. STARTED ON ^{FOURTH} LIFT "A" THIS AFTERNOON.



EMCON
Southeast

DAILY REPORT

Report #: No 030

Route To: Master - White (Original)
On-Site - Yellow
Project Manager - Pink

Date: Oct. 21, 19 93
Contract Day _____ of _____
Time Enter Site 0700
Time Leave Site 1930

Project Name: BOWELL SURF. IMP. CIPROCE Project #: 2040-009-92
Weather: PARTLY CLOUDY TO OVERCAST Mean Temp. _____
Working Conditions: OKAY
Location: BOWELL - NEWMAN
Prime Contractor's Personnel: BRIAN D. JONES
Subcontractors on the Site: FOUR SEASONS
Visitors: _____
Hours On Site: Contractor _____ EMCON _____ Other _____

Progress: LOW POINT CIPROCE WAS STILL ON LINE TODAY. TALKED WITH BOWELL WASTEWATER TREATMENT PERSONNEL AND THEY GOT IT BACK ON LINE. THEY ONLY HAVE TWO 55 GAL. CARSON DRAINING IN LINE AND I SUGGESTED THEY GET TWO MORE. PRIME ROLLED THE FIRST 6" OF FOURTH LIFT "A" AREA LETTING IT CURE OVERNIGHT. IT SEEMED TO THICKEN UP A LOT. THEY THEN BEGAN SECOND 6" OF FOURTH LIFT "A". THEY HAD TO HAVE THE LIFT FINISHED BY LUNCH BUT PRIME ROLLING WAS NOT SUCCESSFUL. IT APPEARED THE DRG HAD ONLY CUT ABOUT 3" TO 4" LEAVING UP TO 3" WITHOUT DUST AND THEREFORE VERY WET. SINCE NO BETTER DRG HAD BEEN USED BEFORE, IT SEEMS WE WILL HAVE TO THIN UP LIFTS FOR "FACING" TO ALLOW FOR HARDER PENETRATION. BRIAN WENT DOWN FROM C&C AND GOT THEM TO RAISE CHUCK ME ON THE PRIME ROLLING. HE SAID THE LIFT STILL NEEDED WORK FOR SEASONS ROLLER AGAIN. FINISHED 12 AT ABOUT FOUR AND PRIME ROLLED AGAIN. STILL DETECTED PRIME ROLLING BEYOND ALLOWED LIMITS. THEY ROLLERED AGAIN. AT ABOUT SIX THEY WERE READY FOR PRIME ROLLING AGAIN. NORMAN MINOR SENSING IN REMOTE PLACES SO WE DECIDED TO LET LIFT CURE OVERNIGHT AND ROLLER TOMORROW MORNING. DID PRIME SCHEDULED BREAKE TESTS. THEY CONTINUED PAVING SIDEWALK WITH B&B THROUGH THREE FEET PASSES.

THE CEMENTS - T&H.

Prepared By: EMCON Southeast

Reviewed By: EMCON Southeast



EMCON
Southeast

DAILY REPORT

Report #: No 031

Route To: Master - White (Original)
On-Site - Yellow
Project Manager - Pink

Date: Oct. 22, 19 93
Contract Day _____ of _____
Time Enter Site 0700
Time Leave Site _____

Project Name: BARNETT SURF. IMP. CLOSURE

Project #: _____

Weather: OVERCAST, RAIN, COOL

Mean Temp. _____

Working Conditions: VERY WET - MUDGY IN MUDHOLE - SOME DELAYS

Location: BARNETT - NEWMAN

Prime Contractor's Personnel: JOE LEWIS, DAVE GOODRICH, BRIAN DOWLING

Subcontractors on the Site: FOUR SEASONS

Visitors: _____

Hours On Site: Contractor _____ EMCON _____ Other _____

Progress: LET FOURTH LIFT "A" FINAL LIFT CURVE RESTRAINT. SEEMED TO TURN UP CONSIDERABLY. PAPER ROLLING WITH SHEEPSKIN ONLY DOTTED SURFACE. COLLECTED SIX SHALY TUBES AND DID DRYE RING COMPACTION TESTS. WE OBTAINED 99.5% & 94.3% COMPACTION. AFTER COMPACTION TESTS, FITTED SHALY TUBES FOR BEARING TESTS. HAD SO MUCH DIRT IN FOURTH LIFT "A" SHALY TUBES, WAS ONLY ABLE TO GET TWO GOOD SAMPLES OUT OF SIX. THEY WERE SO BRITTLE AND DRY, THAT THEY WOULD JUST CRUMBLE WHEN EXTRACTED FROM THE TUBE. HAD MORNING RAIN BUT WORK CONTINUED. REWOUND LIFT "A". GEDMAN SAID HE WAS GOING TO GO TO FIVE INCH LIFTS CUTTING CUT IN EVERY FOUR INCHES, DISC CUTTING, AND COMPACTION. THIS HOPEFULLY WILL ELIMINATE OUR PROBLEM OF DIRT IN UPPER PORTION OF LIFT AND EXTREME DAMPNESS IN LOWER PORTION OF LIFT. ALSO THEY ARE NOT GOING TO SLABE BETWEEN LIFTS. DID A LOT OF PAPERWORK THIS MORNING. FOUR SEASONS COMPACTIONED FIRST FOUR INCHES OF ^{LIFT} LIFT "A". SINCE IT WAS LIGHTLY RAINING THEY ADDED A LOT OF DIRT AND PAPER ROLL INDICATED NO PUMPING. THEY CONTINUE TO PUMP SLUDGE WITH BACK THROUGH THREE FILTER PRESSES. FILTER OIL CONTINUES TO STICK ALICE.

JOE LEWIS - TECH

Prepared By: EMCON Southeast

Reviewed By: EMCON Southeast



EMCON Southeast

DAILY REPORT

Report #: No 032
Date: Oct. 23, 19 93
Contract Day _____ of _____
Time Enter Site 0930 1800
Time Leave Site 1230 1900

Route To: Master - White (Original)
On-Site - Yellow
Project Manager - Pink

Project Name: BOWEN SURF. IMP. CLOSURE Project #: 2040.007.92
Weather: OVERCAST TO PARTLY CLOUDY Mean Temp. _____
Working Conditions: OKAY
Location: BOWEN - NEWMAN
Prime Contractor's Personnel: McLEWIS
Subcontractors on the Site: FOUR SEASONS
Visitors: _____
Hours On Site: Contractor _____ EMCON _____ Other _____

Progress: FOUR SEASONS COMPLETED SECOND LIFT OF FIFTY LIFT "THIS MORNING. PUMP ROLLED AND IT APPEARED VERY SOLID WITH NO PUMPING. IT APPEARS THE THINER LIFT METHOD IS WORKING. THEY BEGAN NEXT FOUR INCHES OF LIFT. IT IS HARD THAT THIS LIFT WILL FINISH UP SOLIDIFIED MATERIAL BUT AT LEAST IT SEEMS WE MAY HAVE ANOTHER THIN LIFT AFTER THIS ONE. CHECKED AERIAL SYSTEM AND GOT METER READINGS. DID REGULAR SCHEDULED BREAK TESTS. FOUR SEASONS INDICATED IT WOULD BE LATER ON IN THE AFTERNOON BEFORE THEY WOULD BE READY FOR NEXT LIFT PUMP ROLLING SO I LEFT SITE AND ASKED THEM TO PACE ME WHEN THEY WERE READY AND I WOULD RETURN. DID NOT HEAR FROM THEM BY FIVE SO I CALLED TO CHECK ON PROGRESS. THEY INDICATED THEY STILL WEREN'T QUITE READY SO I CHECKED BACK BY SITE AT ABOUT 6:30 AND THEY SAID IT WOULD BE FIRST THING IN THE MORNING BEFORE THEY WOULD BE READY FOR PUMP ROLLING. FOUR SEASONS CONTINUES TO PUMP WATER BARGE THROUGH THREE FURTHER PASSES. HAVING SOME MECHANICAL DIFFICULTY WITH BARGE AREA. SCHEDULED KEY INTERVIEW. THEY ARE PUMPING WITHOUT AERIAL UNTIL THEY CAN REPAIR.

McLEWIS - TEL.

Prepared By: EMCON Southeast

Reviewed By: EMCON Southeast



EMCON Southeast

DAILY REPORT

Report #: Nº 033

Route To: Master - White (Original)
On-Site - Yellow
Project Manager - Pink

Date: Oct. 24, 19 93
Contract Day _____ of _____
Time Enter Site 0830 1300
Time Leave Site 1030 1700

Project Name: BOWELL SWEE. IMP. CLOSURE Project #: 2040.009.92
Weather: OVERCAST Mean Temp. 71°
Working Conditions: OKAY
Location: BOWELL NEWMAN
Prime Contractor's Personnel: JOE COWINS
Subcontractors on the Site: FOUR SEASONS
Visitors: _____
Hours On Site: Contractor _____ EMCON _____ Other _____

Progress: FOUR SEASONS CONTINUES TO PUMP SLUDGE THROUGH THREE FILTER PRESSES WITH BARGE. BARGE STILL HAS BROKEN AXLES SO THEY ARE PUMPING WITHOUT IT. THEY CONTINUE WORKING ON LIFT FIFTH "A". THEY HAD ORIGINALLY PLANNED TO HACK IT PERDY FIRST THING THIS MORN. BUT ARE HAVING SOME PROBLEMS WITH PRETTY WET MATERIAL. ALSO THE LIFT WILL BE A LITTLE THICKER THAN FOUR INCHES TO ACCOMMODATE THE REMAINDER OF THE SOLIDIFIED MATERIAL. LEFT SITE AND CAME BACK BACK WHEN THEY WERE READY FOR PERF ROLL. THEY INDICATED THEY HAD PROBABLY SOAKED THE DUST TO IT BUT IT PERF ROLLED GOOD AND SHOWS FINE BARELY DENIED SURFACE. TOOK TWO DUNE RINGS AND SIX SHELBY TUBES FOR COMPACTION & STRENGTH TESTS. SHOT ELEVATIONS FOR FIFTH "A" LIFT. CHECKED DEWATER SYSTEM AND TOOK METER READINGS.

JOE COWINS - TECH.

Prepared By: EMCON Southeast

Reviewed By: EMCON Southeast