

FORMER WASTE MANAGEMENT AREAS

International Paper Facility

Longview, Washington

Submitted to

Washington Department of Ecology

and

U.S. Environmental Protection Agency Region X

Prepared for

International Paper

Dallas, Texas

Prepared By

James L. Grant and Associates, Inc. Englewood, Colorado

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May 11, 1990

GIBBS & OLSON, INC. Engineers planners surveyors

May 15, 1990

Mr. Mike Rundlett Regional Manager Washington Department of Ecology 7272 Cleanwater Lane (LU-11) Olympia, WA 98504

Subject: Closure Certification for the Former Waste Management Areas International Paper Facility - Longview, Washington

Dear Mr. Rundlett:

I, John A. Duncan, a Registered Professional Engineer and Registered Professional Land Surveyor in the State of Washington, certify that I, or my representative, reviewed the following closure activities performed at the former waste management impoundments at the International Paper Facility in Longview, Washington. These activities included the installation of all fill materials, the placement of the High Density Polyethylene (HDPE) liner, the seeding of the entire site, and the erection of a perimeter fence.

I certify that these activities were performed in accordance with the "Closure Plan and Post-Closure Plan for the Treated Wood Products Plant, Longview, Washington" (Closure Plan). This Closure Plan was submitted to the Washington State Department of Ecology and the U.S. Environmental Protection Agency Region X, by International Paper on July 16, 1986, and was subsequently approved by your agency.

Minor field changes modifying the Closure Plan specification and procedures were approved in the field by me in consideration of health and safe work practices. The modified procedures were the equivalent of those presented in the Closure Plan. These minor deviations are explained in my letters, as documented in the attached report. Documentation supporting that the closure activities were performed in accordance with the Closure Plan is presented in the attached report.

Sincerely,

GIBBS & OLSON, INC.

By Vorth UNC

Jøhn A. Duncan, Gibbs & Olson, Inc. Registered Professional Engineer Registered Professional Land Surveyor Date: May 15, 1990

Attachment JD/sv File: 375.13

GIBBS & OLSON, INC. Engineers planners surveyors

INTERNATIONAL PAPER COMPANY TREATED WOOD PRODUCTS IMPOUNDMENT CLOSURE PLAN CERTIFICATION AT INTERNATIONAL PAPER COMPANY FACILITY LONGVIEW, WASHINGTON

I, JOHN A. DUNCAN, a Registered Professional Engineer and Registered Professional Land Surveyor in the State of Washington, certify that I, or my representative, reviewed the installation of all fill materials, the placement of the High Density Polyethylene (HDPE) Liner, the seeding of the entire site, and the erection of a perimeter fence.

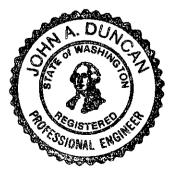
All installations conformed with the Closure Plan and Post-Closure Plan for Dangerous Waste Impoundments, as submitted to Washington State Department of Ecology and the U.S. Environmental Protection Agency Region X, by International Paper Company on July 16, 1986, and as documented in the attached report.

GIBBS & OLSON, INC.

Βv John A. Duncan, P.E. Gibbs & Olson, Inc.

May 15, 1990 Date:

Attachment





CLOSURE CERTIFICATION FORMER WASTE MANAGEMENT AREAS

International Paper Facility Longview, Washington

Submitted to

Washington Department of Ecology and U.S. Environmental Protection Agency Region X

Prepared for

International Paper Dallas, Texas

> Englewood, Colorado May 11, 1990

CLOSURE CERTIFICATION FORMER WASTE MANAGEMENT AREAS

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LONGVIEW, WA

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LONGVIEW, WA

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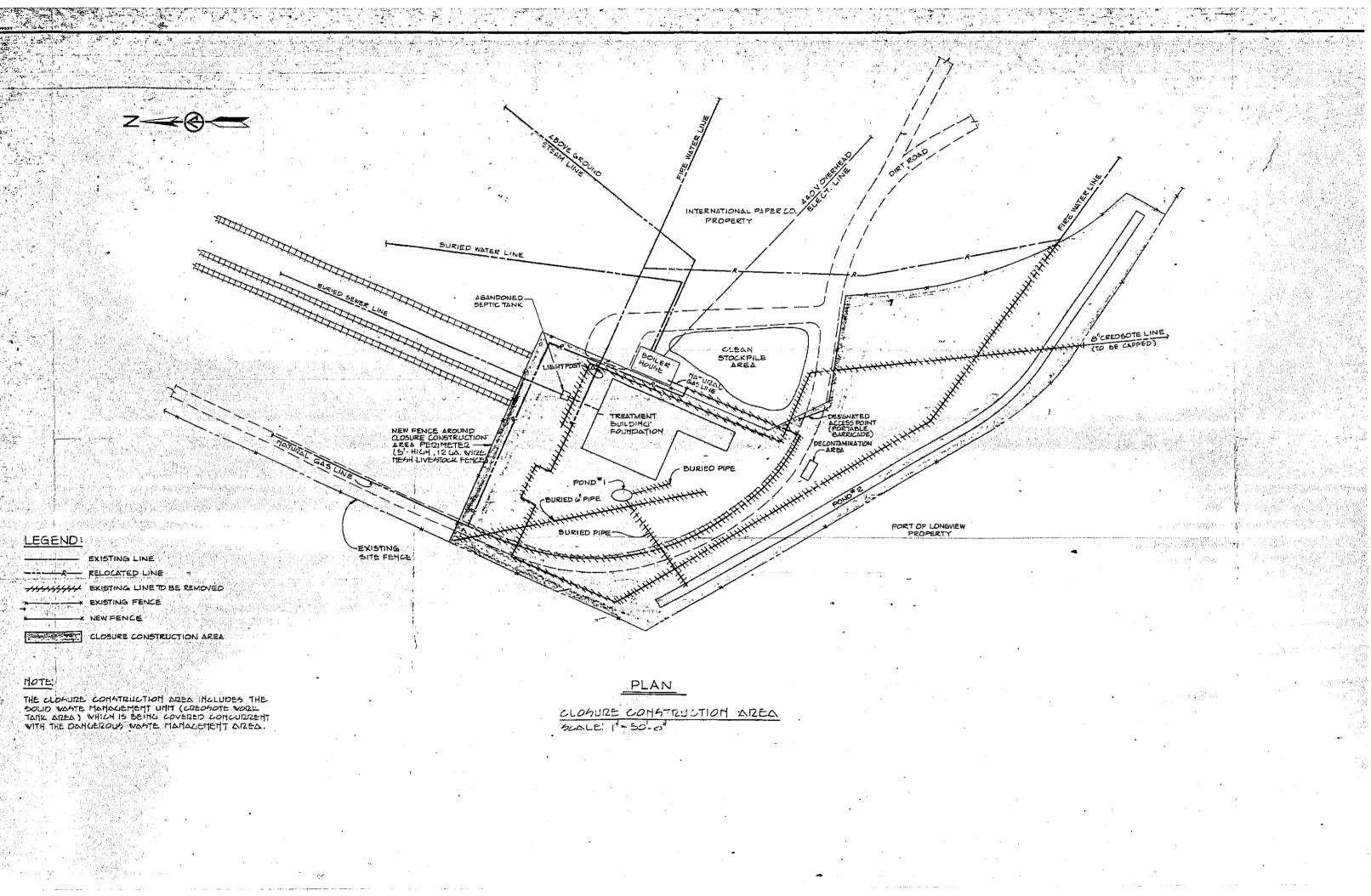
1. INTRODUCTION

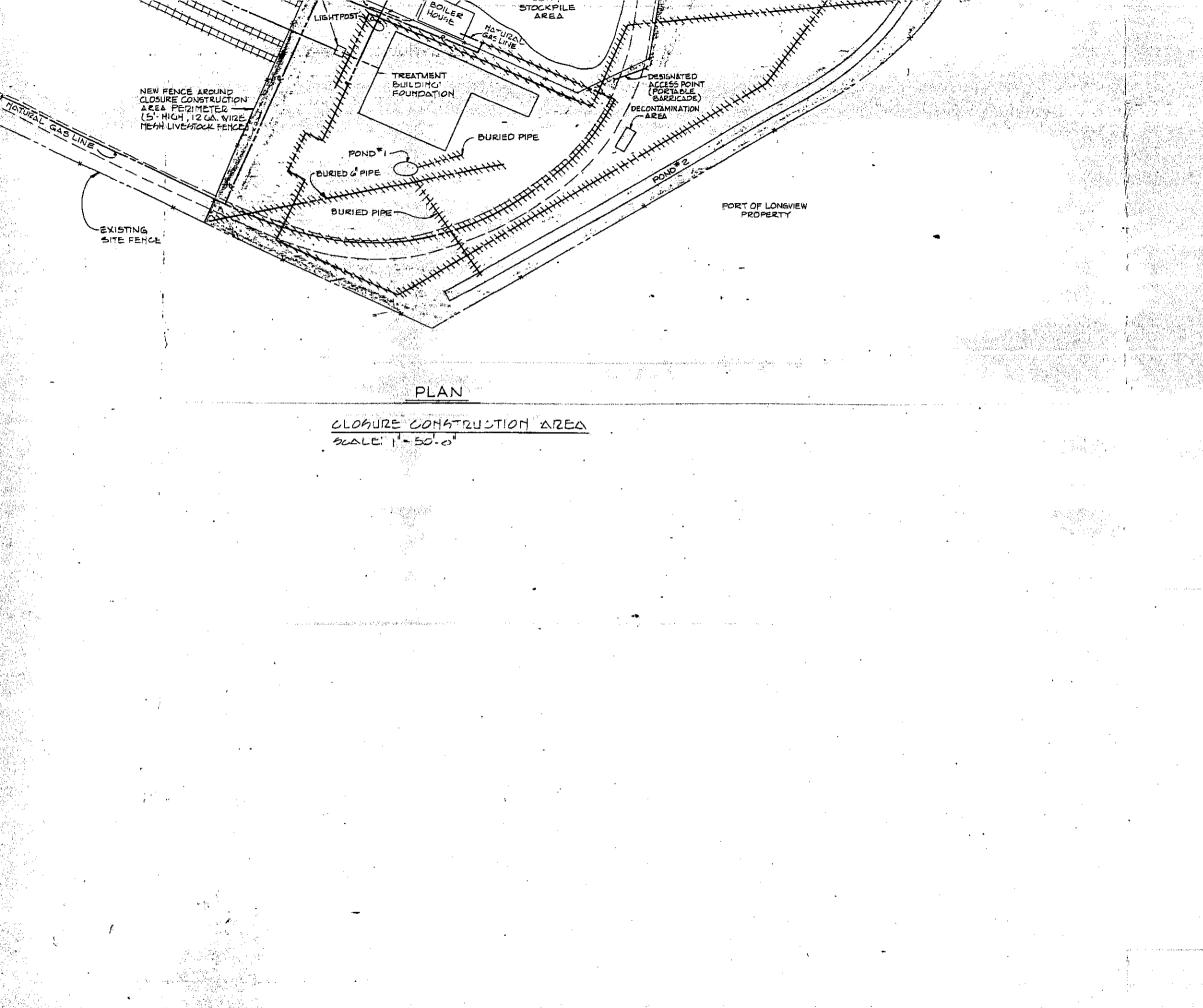
This report describes the closure activities conducted at the former waste management areas at the International Paper facility in Longview, Washington. This report also provides the Certification of Closure for these waste management areas as required by 40 CFR 265.115. Documentation supporting the certification, consisting of letters, laboratory and field test results, and photographs are included in this report. The closure of the waste management areas was conducted in accordance with the "Closure Plan and Post-Closure Plan for the Treated Wood Products Plant, Longview, Washington" (Closure Plan). This Closure Plan was prepared by International Paper and is dated July 16, 1986. The Washington Department of Ecology granted tentative approval of the Closure plan on June 19, 1986. Revisions to the plan were made by International Paper on October 3, 1896. The plan was fully approved by the WDOE on April 14, 1987. Closure procedures are presented in Appendix A.

A map of the Longview closure construction area is shown in Figure 1.1. The locations of the former waste management areas are shown on this Figure as ponds #1 and #2.

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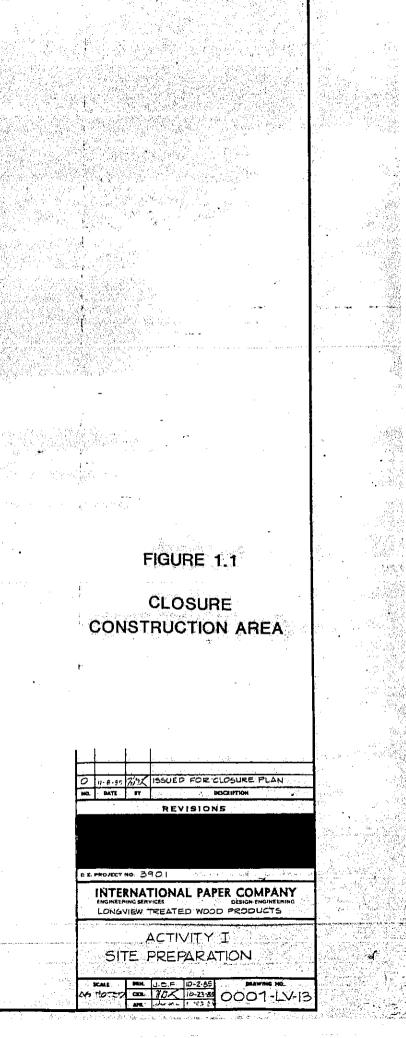
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2. PRE-CLOSURE ACTIVITIES

Prior to closure of the former waste management areas, a number of pre-closure activities were conducted. These activities consisted of the following:

- o waste inventory reduction,
- impoundment backfill after inventory reduction,
- o removal of underground piping in the closure construction area, and
- o replacement of wells LL-02.05 and LL-02.32 and the vertical extension of wells LL-02.17 and LL-02.64.

The pre-closure activities are discussed in the following sections.

2.1 Waste Inventory Reduction

Excavation and removal of all EPA hazardous and WDOE dangerous wastes (hazardous and dangerous wastes) from the waste management areas was conducted in May, 1985. These wastes were disposed of in the Chem Security Systems, Inc. (CSSI) TSD facility near Arlington, Oregon. This was accomplished as part of a 1985 site waste inventory reduction program conducted for the entire facility.

The wastes were excavated using standard excavation equipment (i.e., backhoe, front-end loader, bulldozer) and transported by trucks to the CSSI TSD facility for disposal. The wastes were transported by Crosby and Overton, Inc. Photographs of the equipment and the excavation process are included as Photographs 1 through 5 in Appendix B.

Appendix C contains the uniform hazardous waste manifest forms documenting the transport of the wastes to the CSSI facility. The manifest forms indicate a total of 1056.8 cubic yards of hazardous waste solids (K001 sludges containing creosote and pentachlorophenol) were removed from the waste management areas. The forms document the waste removal from the waste management areas as occurring between May 2 and May 10, 1985.

Soil samples were obtained from the waste management impoundments after the 1985 waste removal. A total of five samples were submitted to the University Hygienic Laboratory for analyses for pentachlorophenol and creosote constituents. The concentrations of the constituents present in the soil ranged from below

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detection limits to 312 milligrams per kilograms (mg/kg). The test results confirmed that all extremely hazardous wastes were removed from the waste management areas. The test results are presented in Appendix C.

The need for an equipment decontamination station, such as the station presented in the Closure Plan, was eliminated during field operations. All hazardous liquid was pumped from the impoundments prior to the excavation. The excavation was then performed with only one backhoe within the impoundments. The backhoe loaded haul trucks which were not allowed to enter the impoundments. The trucks drove over large plastic sheets. Drainage from the plastic sheets was directed back to the impoundments, where it was solidified with lime. This material was later excavated and taken to the CSSI TSD facility for disposal. The plastic sheets also were taken to the CSSI TSD facility for disposal. The backhoe was cleaned at the equipment station. Waste water and soil from the cleaning were collected and taken to the CSSI TSD facility.

2.2 Impoundment Backfill

The second pre-closure activity involved the backfilling of the impoundments after the 1985 inventory reduction. In October 1986, the two waste management area impoundments were backfilled. After the inventory reduction waste excavation, the first impoundment ranged in depth from 1 ft. to over 8 ft. This impoundment was backfilled with a gray, fine to medium sand which was compacted to at least 95 percent of the material's Standard Proctor Dry Density (ASTM D-698). The second impoundment was about 5 ft. deep after excavation and also was backfilled with the gray, fine to medium sand. The backfill in impoundment 2 also was compacted to greater than 95 percent of its Standard Proctor Dry Density.

International Paper contracted Gibbs and Olson, an independent registered professional engineering firm, to supervise the impoundment backfill, as shown by the attached letter from International Paper to Gibbs and Olson, dated August 20, 1986. This letter also is included in Appendix D.

The backfilling and compaction operation were observed by a representative of L. R. Squier Associates, Inc., a geotechnical engineer, and by Mr. Neil Alongi of Gibbs and Olson, Inc. The backfilling and compaction observations and test results are discussed in a letter from Mr. Olson of L. R. Squier to Mr. Alongi. This letter of documentation is included in Appendix D. The L. R. Squier letter was provided to James L. Grant and Associates by Mr. John Duncan of Gibbs and Olson. Mr. Duncan summarized the 1986 backfill operations in a cover letter and

referenced several photographs documenting the backfill work. Several of these photographs are included in Photographs 6 through 10 in Appendix B.

2.3 Piping Removal

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Piping which transferred hazardous materials was removed from the closure construction area by International Paper as a pre-closure activity. The piping was removed during the waste inventory reduction excavation process. The removed piping was cleaned and then shipped for disposal to the CSSI TSD facility in Arlington, Oregon. The fire line and the natural gas line did not transfer hazardous materials and where therefore capped and left in place. No active pipes were left in place. The piping locations are shown on the closure construction area map in Figure 1.1.

The removal and cleaning of the piping was verified by the WDOE during the Dangerous Waste (DW) Compliance Evaluation Inspection on August 21, 1986.

2.4 Monitoring Well Replacement and Extension

Monitoring wells of cluster group 2, including LU-02.05, LL-02.17, LL-02.32 and LL-02.64 are located within the waste management areas. To accommodate the proposed cover thickness, the above ground portion of wells LL-02.17 and LL-02.64 were extended by about 2 feet. Because of questionable well completion details, International Paper chose to abandon and replace wells LU-02.05 and LL-02.32 at the same time. The datum elevations of the replacement wells were set about 2 feet higher than the original wells.

The well abandonment, replacement well installation and existing well extensions were performed by James L. Grant and Associates, Inc. (JLGA) between September 12 and 14, 1989.

The wells were abandoned in accordance with State statute WAC 173-160-415 "Abandonment of Wells". Abandonment was accomplished by pulling the inner casing and well screen, augering to the termination depth of the borings with larger diameter augers to remove remaining casing and annular seal, and backfilling the borings with a high-solids bentonite grout. Well abandonment forms were submitted to the Washington Department of Ecology by Kring Drilling Company, Inc.

The surface casings at wells LL-02.17 and LL-02.64 were extended by:

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- o filling the annular space between the PVC well casing and steel protective casing with sand,
- o cutting the hinged, locking cover off,
- o attaching additional PVC via a slip coupling secured with small, stainless steel screws, and
- welding an additional length of protective casing to cover the extended PVC well casing.

The replacement wells were drilled adjacent to the abandoned original wells. Each well was installed according to WDOE procedures. A 3-foot long slotted screen was installed in well LL-02.05. A 10-foot long slotted screen was installed in well LL-02.32. The annular seal at each wells consists of a silica sand pack, a sodium bentonite pellet seal, and a portland cement/sodium bentonite pellet seal. The replacement wells were installed to the same depth as the original wells.

The well abandonment and replacement well installation was discussed in the "Fourth Quarter and 1989 Annual Report, Ground-Water Quality Assessment Program" prepared by JLGA and dated February 22, 1990. This report was previously submitted to the WDOE. The "Resource Protection Well Reports" were submitted to the State by Kring Drilling Company, Inc., the drilling subcontractor for the well replacement and abandonment. Monitoring well records for the replacement wells LL-02.05R and LL-02.32R are included in Appendix E.

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CLOSURE CERTIFICATION

3. CLOSURE ACTIVITIES

Closure of the waste management areas began in October, 1989 and was completed in March, 1990. Closure activities consisted of the following:

- o construction of an engineered cover consisting of native soils, volcanic ash, high density polyethylene, and topsoil;
- o grading of all areas in accordance with the engineered cover and site drainage system;
- o construction of a waste management area perimeter security fence;
- o seeding of the waste management area; and
- performance of engineering, procurement, and construction monitoring activities and certification of closure to verify closure implementation in accordance with closure plans and specifications.

The closure steps are discussed in detail in the following sections of this Closure Certification Report.

Because some dangerous waste constituents remained in the impoundment subsoils after the inventory reduction, International Paper closed the waste management areas in accordance with regulation 40 CFR Subpart G and 265.310. The residual waste constituents remaining in the impoundments are in the subsoils. These soils were stabilized to a bearing capacity sufficient to support the final engineered cover as indicated by the compaction efforts and test results discussed in the L. R. Squier letter of 1986. This letter is included in Appendix E.

International Paper contracted Gibbs and Olson, Inc. of Longview, Washington, to supervise and certify the closure activities. Gibbs and Olson is a registered professional engineering firm. International Paper contracted Gundle Lining Systems, Inc. of Houston, Texas to supply and install the polyethylene component of the closure cover. Local contractors performed the remaining closure activities.

3.1 <u>Cover Installation</u>

The engineered cover installed at the Longview facility was designed to comply with the requirements for the closure of surface impoundments as required by WAC 173-303-650(6)(a)(ii).

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The engineered cover has as its primary component a 40-mil thick High-Density Polyethylene (HDPE) barrier. The HDPE will function to eliminate percolation of precipitation through the closed impoundments. During installation, the HDPE was keyed into the upper silt layer located in the facility's subsurface soils. The silt layer was identified in the field by changes in the color and properties of the soils and was found at depths about 4 to 10 feet below the surface. By keying the liner into the silt layer, migration of the remaining dangerous waste constituents within the waste management area will be minimized.

The characteristics of the cover for the waste management areas were described in the Closure Plan in response to regulation 40 CFR 265.310(c)(5)). In general, the cover consists of a 40 mil high density polyethylene (HDPE) sheet covered by six inches of sand for drainage and two feet of native topsoil to support the growth of native grasses.

The engineered cover was constructed by placement of the following components over the waste management area encompassing impoundments 1 and 2 and the intervening area between the ponds.

- Native soil or volcanic ash fill and a 3-inch volcanic ash layer for the cover subgrade.
- o 40 mil high-density polyethylene
- o 6 inch layer of sand for drainage
- o 2 foot layer of native topsoil

The cover components were installed between October, 1989 and January, 1990. A map showing the engineered cover extent and the cover details is presented as Figure 3.1.

The following list describes the adherence to the cover and HDPE specifications during the closure proceedings and references the certification documentation pertaining to each specification. The HDPE engineering specifications are included in Appendix F, Item 1. The documentation referenced is included as Items 2 to 14 in Appendix F. Photographs 11 through 30 in Appendix B document the cover installation.

ADHERENCE TO HDPE LINER SPECIFICATIONS

I. General

No documentation required.

II. Site Preparation

A.1. to A.4.

No documentation required.

A.5.

Certification letter, signed by Mr. David Herreth of Gundle, is presented in Item 2. The subgrade was tested for compaction by Professional Service Industries, Inc. The test results are presented in Item 3 of Appendix F.

III. Materials

A.1.a.

The HDPE materials were manufactured by Gundle. The resin materials were manufactured by the Phillips 66 Company. Laboratory testing certification for all properties identified in section A, except environmental stress crack resistance, was performed by Gundle. This certification is presented in Item 4, Appendix F. Environmental stress crack resistance testing was performed by Phillips 66. The results of this testing are included in the Phillips 66 Company certification sent to Gundle. This certification is presented in Item 5, Appendix F.

The installed HDPE conforms to the original specifications with the exception of tensile strength at yield. The HDPE supplied does, however, conform to the minimum tensile strength at yield specified by Gundle for its products. The HDPE materials accepted at the site by Mr. John Duncan, representing International Paper, had an average tensile strength at yield of 2666 psi. The Gundle specification for tensile strength at yield is 2375 psi (40 mil) and 2333 psi (60 mil). Mr. John Duncan, professional engineer, discussed the tensile strength property and the specification in a letter dated March 12, 1990. In this letter, Mr, Duncan outlines several reasons as to why the HDPE installed, although below specification with respect to tensile strength, is acceptable for this closure application at the Longview facility. This letter is included as Item 6, Appendix F.

A.1.b.

Certification of the percentage of carbon black present in the HDPE is included in the Gundle laboratory quality assurance certification in Item 4, Appendix F. The percentage of carbon black was greater than 2 percent in all tests.

B. to I.

No documentation required.

IV. Installation

Α.

As-built drawings prepared by Gundle are presented in Item 7, Appendix F.

в.

No documentation required.

c.

A certification letter that field welds have a seam strength of a minimum of 100 percent of the tensile strength of the parent material, signed by Mr. David Herreth of Gundle, is presented in Item 8, Appendix F.

V. Quality Assurance

A.1.

Gundle specified that the resin used in the HDPE manufacture be supplied by the Phillips 66 Company. Quality assurance on the resin was provided to Gundle by the Phillips 66 Company. The quality assurance documentation is presented in Item 5, Appendix F.

A.2.

The environmental stress crack resistances, reported by the Phillips 66 Company to Gundle, exceeded 1000 hours as specified.

A.3.

The resin supplied by the Phillips 66 Company conformed to the manufacturer's specifications. The Phillips 66 Company certification is presented in Item 5, Appendix F.

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B.1. to B.2.

No documentation required. Information included in Gundle laboratory quality assurance certificates in Item 4, Appendix F.

B.3.a.

The HDPE thickness was measured by Gundle. The sheet thicknesses were within 0.004 inches of the specified thickness.

B.3.b.

Physical tests on the HDPE materials were conducted daily. These test results are presented in Item 4, Appendix F.

B.3.c.

The percentage of carbon black in the HDPE was was determined daily. These test results are presented in Items 4 and 5, Appendix F.

B.3.d. to B.3.e.

The label documentation, identifying the HDPE roll serial number, date of manufacture, resin type and lot number, roll dimensions, and roll weight, was to be attached to materials delivered in the field. These charts and labels are not available. The charts and labels were checked in the field prior to acceptance of the materials by International Paper. The serial number of each roll was recorded on the daily reports prepared by Gundle. These reports are presented in Item 9, Appendix F.

C.1.

No documentation required.

C.2.a.

No documentation required.

C.2.b.

All welds attained their maximum strength within six hours as certified by Mr. John Duncan in his letter dated February 7, 1990. This letter is presented in Item 10, Appendix F. Pull tests were performed at the site. This testing was observed and certified by Mr. John Duncan in his February 12th letter. A remnant test strip from a pull test is presented, along with a discussion of the test procedure, in Item 11, Appendix F.

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Destructive weld testing, performed in the laboratory, was conducted by Gundle. The testing results are presented in Item 12, Appendix F.

C.2.c.1.

The visual inspection of welds was performed and certified by Mr. John Duncan. This documentation is included in Item 10, Appendix F.

C.2.c.2.

All welds were vacuum tested in the field rather than scanned by an ultrasonic transducer. Vacuum testing is the equivalent of ultrasonic transducer scanning. The testing method substitution was approved by Mr. John Duncan, as discussed in his March 12, 1990 letter. This letter is presented in Item 12, Appendix F. Vacuum testing documentation is included in the daily reports and the vacuum test report provided by Gundle. The daily reports are presented in Item 9, Appendix F. The vacuum test reports are presented in Item 14, Appendix F. Welds which required repairs are noted on the daily logs. The vacuum test report from Gundle notes repairs required and reinspection dates. All repaired areas were reinspected and the welds were deemed acceptable by Gundle.

Certification that all weld strengths exceeded the strength of the parent material and are acceptable as defined by the specifications, was provided by Mr. David Herreth of Gundle. This certification is presented in Item 8, Appendix F.

C.2.c.3.

The testing documentation and certifications referenced were compiled in part by Gundle, the manufacturer's representative.

C.3.a.

A test report has been complied by Gundle and consists of the Gundle Quality Assurance Certificates, the Phillips 66 Company resin certifications, a Gundle weld quality control test report, vacuum test report, pre-weld qualification, and daily progress reports.

C.3.b.

The resin specified by Gundle was furnished. Testing certification is attached. The HDPE material and installation were accepted by Mr. John Duncan, registered professional engineer, and by Mr. Jay Amin, representative of Interna-

tional Paper, the owner.

3.2 Seeding of Topsoil Layer

The final component of the cover consists of a topsoil layer seeded with a mixture recommended by the U.S. Department of Soil Conservation Service. In Section 265.310(a)(2) of the 1986 Closure Plan, the application rate for seeding was set at 21 pounds per acre for the seed mixture. The actual application rate used in the 1990 seeding was about 75 pounds of seed mix per acre. The seeding and fertilizing was performed by American Landscape Maintenance of Kelso, Washington. The work was completed according to the material specifications and methods listed in their proposal to Gibbs and Olson, dated November 13, 1989. This proposal is presented in Appendix G. The seeded cover is shown in Photographs 28 and 29 of Appendix B.

The topsoil cover was sloped and graded to prevent ponding on top of the HDPE membrane and allow for drainage away from the closed impoundments.

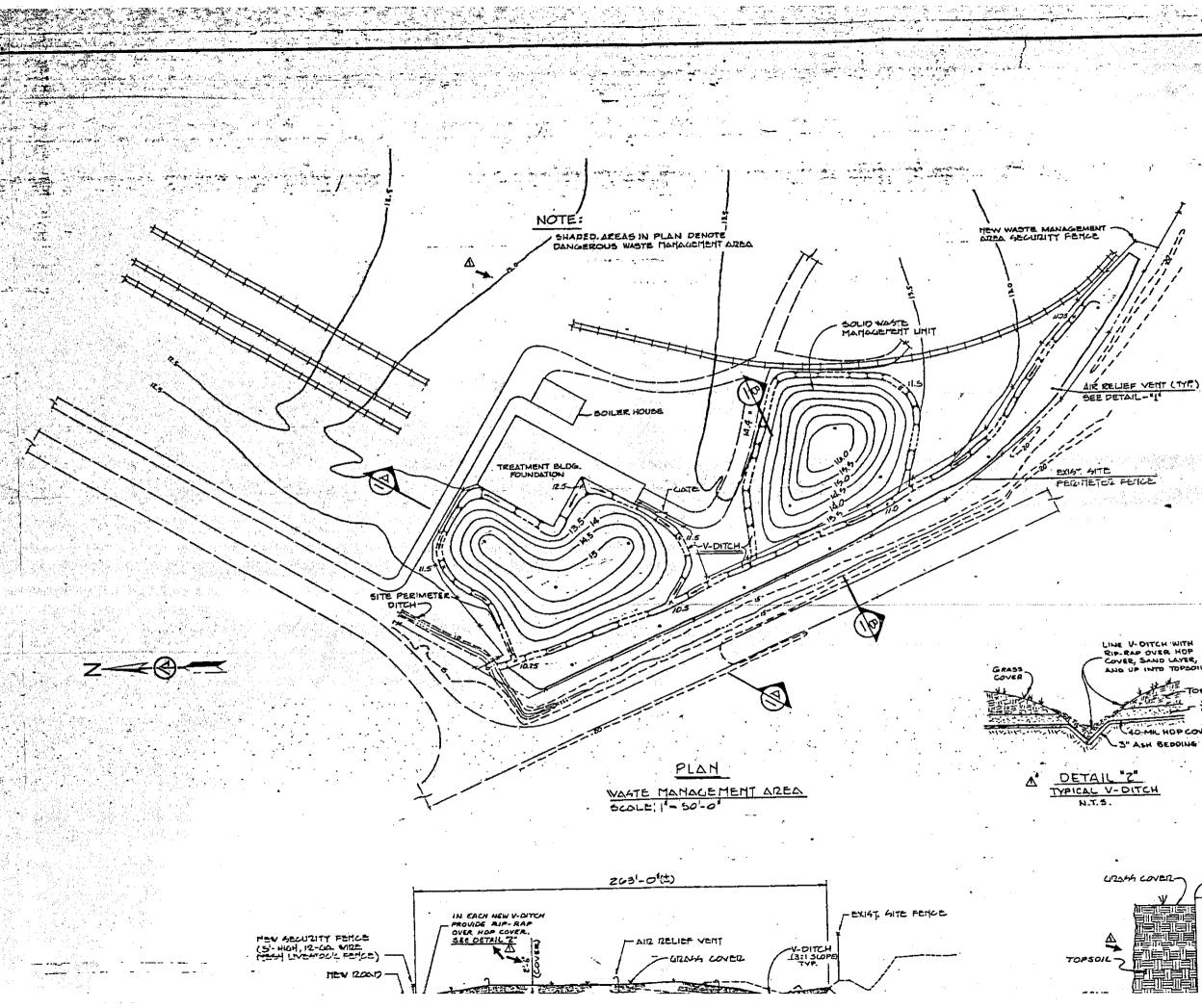
3.3 Fencing

In accordance with regulation 40 CFR 265.14(c), access to the closed waste management areas will be limited. The unauthorized entry of persons or livestock into the closed former waste management area is prohibited by a facility security fence and main entrance gate which is manned by a guard 24 hours a day. To provide additional security, a 5-foot high, 11 gauge chain link fence was placed along the perimeter of the waste management area. Specifications for the fence are given in Appendix H, a proposal submitted to Gibbs and Olson by Evergreen State Fence Co. Evergreen completed the fence installation, according to these specifications, on January 29, 1990.

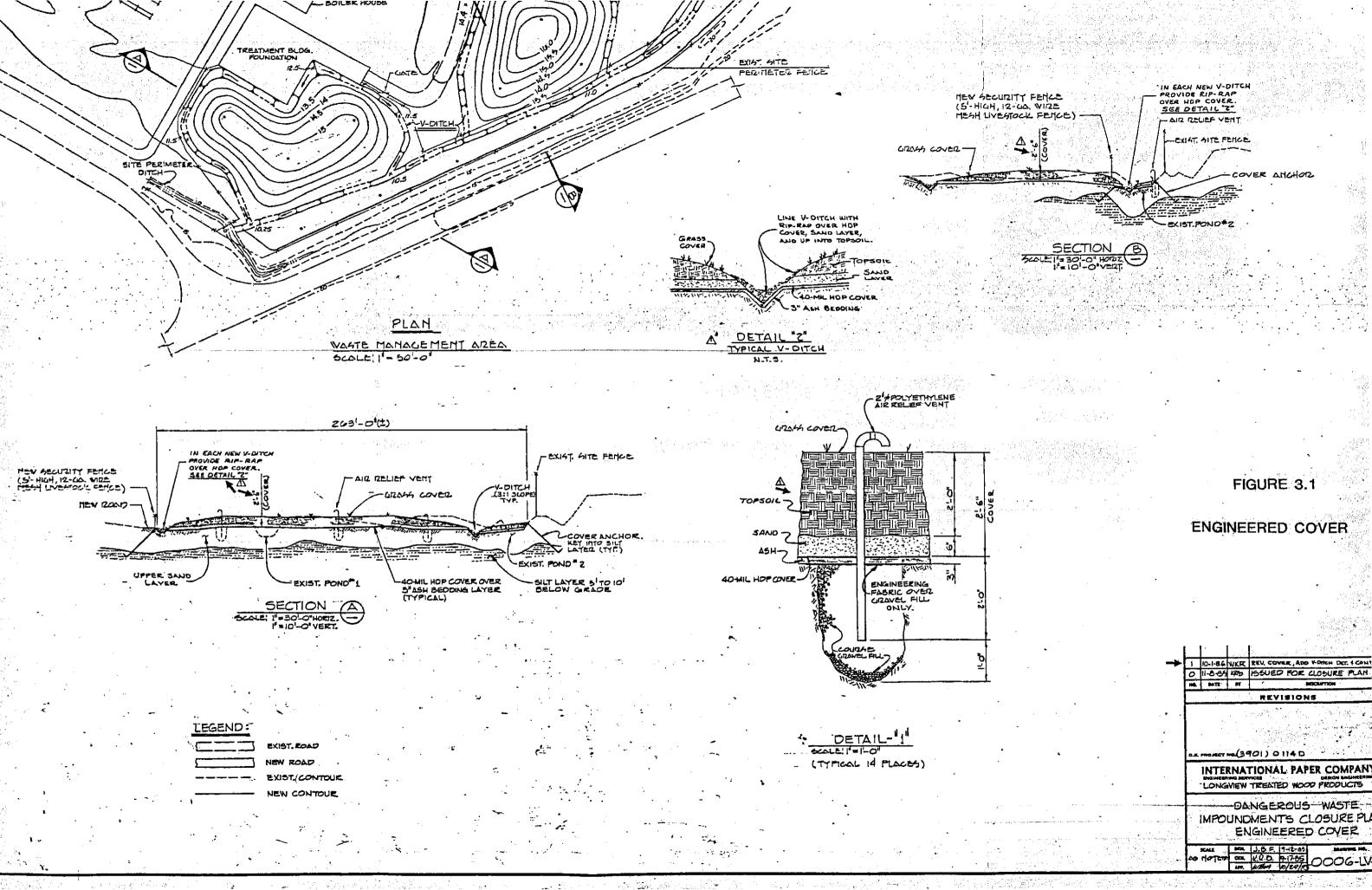
In the 1986 Closure Plan, International Paper states that it will install a 5-foot high, 12 gauge livestock fence. It should be noted that 11 gauge fence is stronger than 12 gauge fence. This deviation from the Closure Plan specifications should not hinder the fence from performing as required.

According to Mr. Jay Amin of International Paper, the fence has warning signs which are legible at a distance of 25 feet and have the legend "Danger - Unauthorized Personnel Keep Out". The fence is shown in Photograph 30 in Appendix B.

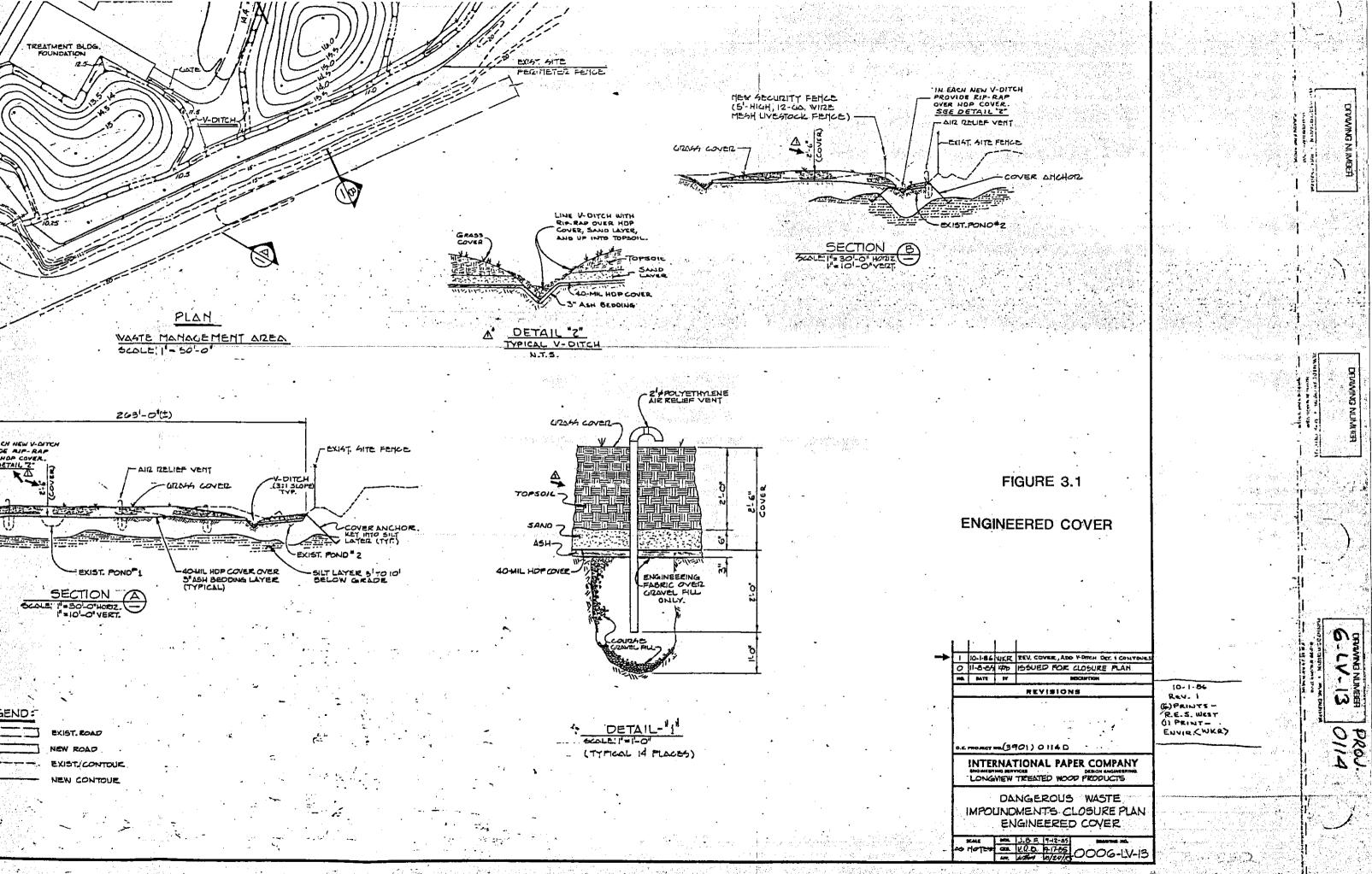
In addition to the closed waste management area perimeter fence, the entire International Paper facility is surrounded by a fence. Access to the facility is limited to a gate which is guarded 24 hours a day.



S. Street, M. ويوجعه والمستجد متكون والمستجرين والمستجرين والمراجع 'IN E 0760 55 HEN SECURITY FENCE (5'-HIGH, 12-00, WIZE MESH LIVESTOCK FENCE) - & (FR) Δ LIZALA COVER. Part of AND UP INTO TOPSOIL SECTION 7001211 = 30'-0" HORIZ Harris . 5 TOPSON SAND 40-MIL HOP COVER -3" ASH BEDDING - 24 POLYETHYLENE AIR RELIEF VENT 1 正言可 'n Cover



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	IMPOUNDMENTS CLOSURE PL
	ENGINEERED COVER
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4. POST-CLOSURE ACTIVITIES

4.1 Notice to Local Land Authority

The survey plat required by regulation 40 CFR section 265.119 will be submitted separately from this report. The survey plat was prepared and certified by Mr. John Duncan of Gibbs and Olson, Inc. of Longview, Washington. Mr. Duncan is a professional land surveyor and professional engineer in the State of Washington.

4.2 Notice in Deed to Property

The notation on the deed to the facility, as required by regulation 40 CFR 265.120, will be completed by International Paper. A copy of this notation will be submitted separately from this report.

The property deed notation will state that the land has been used to manage dangerous waste and its use is restricted under regulation 40 CFR 265.117(c). The deed also will contain a notation restricting, through a title encumbrance, any activities that are likely to result in damage to the cover, monitoring system, site drainage, or security fence as approved in the plan. Prohibited activities will include, but will not be limited to, excavation and grading other than that required for maintenance. A copy of this notation will be submitted to WDOE within 45 days after closure certification.

4.3 Post-Closure Maintenance

Following certification of closure, the only maintenance required at the closed waste management areas will be the quarterly inspection and repairs to the cover (minor erosion, settling, and removal of deleterious vegetation), ground-water monitoring wells, site drainage system, and the security fence. International Paper will comply with the post-closure requirements and schedules included in the "Closure Plan and Post-Closure Plan for the Treated Wood products Plant, Longview, Washington". This plan was prepared by International Paper and is dated July 16, 1986. The plan was revised on October 3, 1986.

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APPENDIX A

CLOSURE PROCEDURES

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CLOSURE PROCEDURES

The Closure Plan for the Longview facility includes two basic components. These are: site preparation and construction of an impermeable engineered cover over the waste management area. Each of these basic closure components is described below.

I. <u>Site Preparation</u> (see attached Drawing 0007-LV-13).

The following activities will be conducted during the site preparation phase of the impoundment closure:

- A. Establish limits of controlled access area along the construction perimeter and a portable barricade placed at the entrance. A construction fence will be erected according to IPCo Specification 629. Also, a clean stockpile area will be located for storage of fill and cover components, if necessary.
- B. Construct an equipment clean-up station according to IPCo Specification Hazardous Impoundment Closure Decontamination Area. The cleaning station will be located near the point of egress. Cleaning will be accomplished using portable steam cleaning and/or hydroblasting equipment with detergent.
- C. Removal and relocation, as specified on Drawing 0007-LV-13, of underground piping in accordance with standard construction practices. Excavated piping will be cleaned for off-site disposal.
- D. Removal of wells LL-01.15, LS-01.05, LL-02.17, LU-02.05, LL-02.32, and LL-02.64. Wells are to be removed by drilling out casing and filling with bentonite cement mix. Drilling wastes are to be placed in impoundment bottoms or containers for off-site disposal.

II. Cover Construction

Construction of the engineered cover will proceed in the following order.

A. Construction of cover over the area of Pond 1, Pond 2, and the adjoining area between the ponds.

The area will be recontoured as indicated on Drawing 0006-LV-13. Sufficient clean soil from the recontoured area should be available to fill both ponds. However, if additional fill is required it will be procured according to the criteria in 265.310(a)(4) of this document.

All fill will be placed in eight to ten inch lifts then compacted to 90 percent of maximum density according to ASTM D-698 (Standard Proctor). Three inches of ash will be placed over the dirt fill for bedding for the high-density polyethylene (HDP) liner.

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The HDP liner will be installed according to the specification in this section and according to the manufacturers requirements. The liner will be domed with a two to five percent slope to prevent ponding on the liner. Installation drawings will be submitted to WDOE after a contractor has been selected and before liner installation begins.

Six inches of washed, run-of-bank sand will be placed on top of the HDP liner to serve as a drainage layer. The top layer of the cover will be two feet of native topsoil. This layer will be seeded according to IPCo Specification 607 and according to the attached recommendations from the Soil Conservation Service in Kelso, Washington.

B. Closure Certification.

The certification engineer will verify that closure activities are performed in accordance with the construction standards established on the following table. This table summarizes tasks and verification tasts to be performed, standards to be imposed, anticipated test frequencies, and standardized test methodology, where appropriate.

As-built drawings will be submitted to WDOE following closure certification.

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MAJOR ASPECTS OF TESTING AND VERIFICATION PROGRAM

Inspection			
Itam	Verification	Frequency	Specification
Native Soils	Compertion Control	1/200 yd ⁿ	190% SPHOD) + 2% OHC 185% SPHOD) 1 3% OHC
All excevation, construction and grading operations	Control of line and grade of construc- tion	Regularly during field operation	3rd order survey accutacy
All closure activities	Documentation of compliance with plan and specifi- cation	Daily	Standard engineering practice
HDP Cover Components	Verification of cover component thickness	1/500 yd ²	Thickness specifica- tion of 1 10%
NDP Seems	Verification of proper seal	Each Soam	No tunnels or holidays
HIP LOUGHS	Verification of sum strength	Each Seam	Held must be as strong as material
Off-site soils (Fill material under liner)	Std. Proctor Permeability Plasticity index Part. size dist. Plate load bearing	Onde per borrow erwe	≥85% at optimal moigture ≥10 0-35 0-15% gravel) 85-100% sand & fines To be determined
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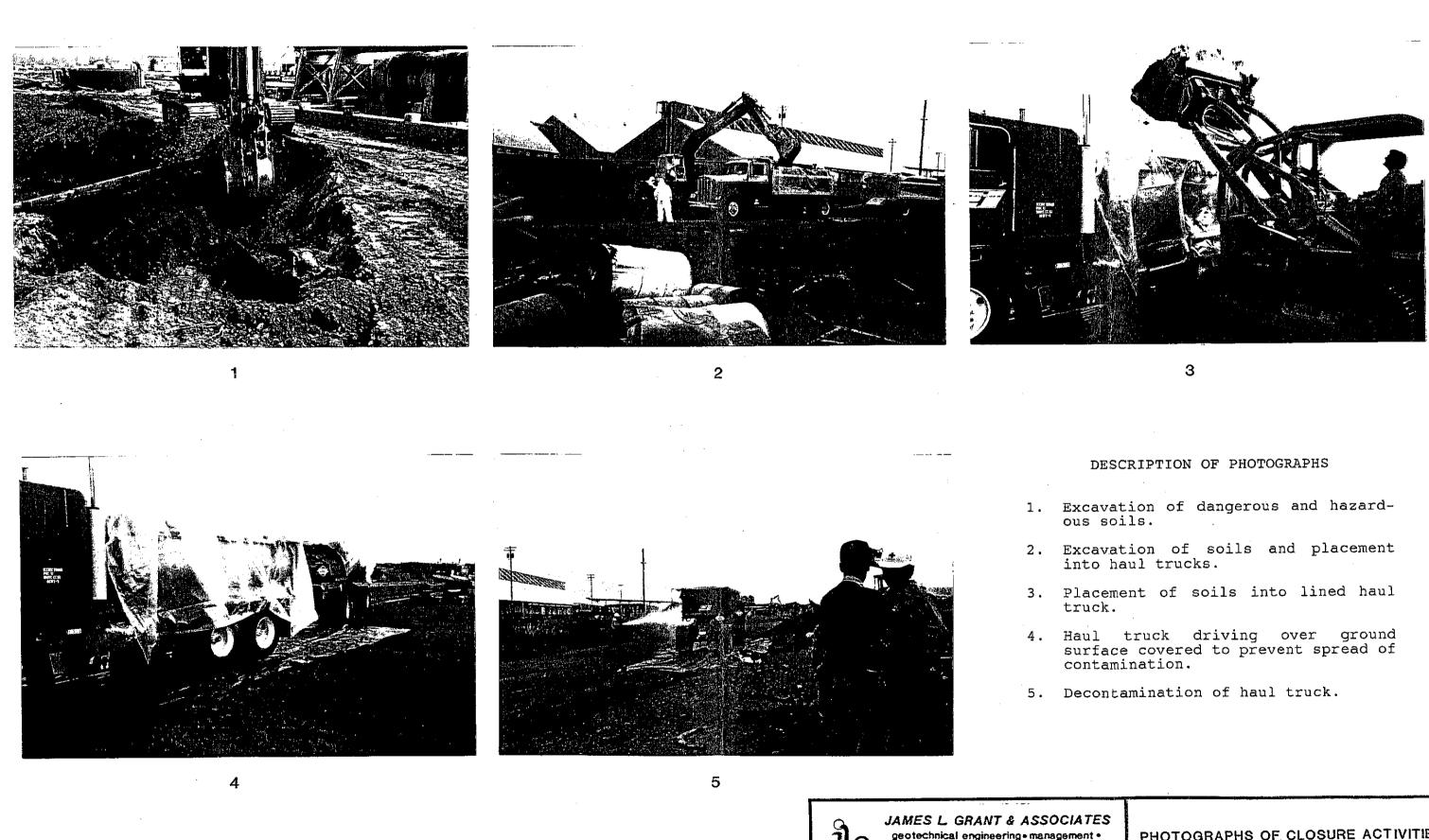
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APPENDIX B

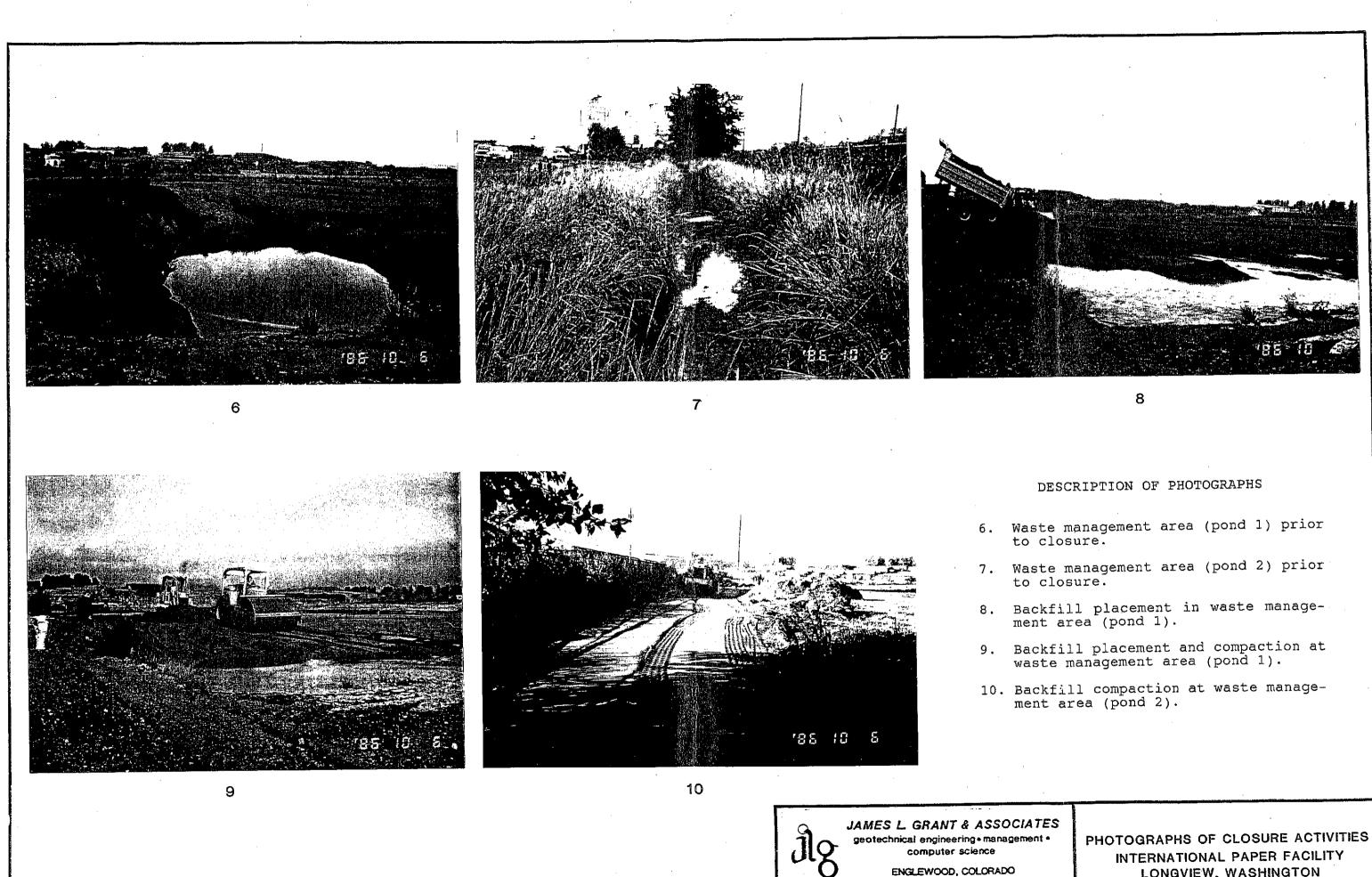
PHOTOGRAPHS OF CLOSURE ACTIVITIES

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computer science ENGLEWOOD, COLORADO



LONGVIEW, WASHINGTON



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- 14. HDPE anchor trench.
- 15. HDPE anchor trench.



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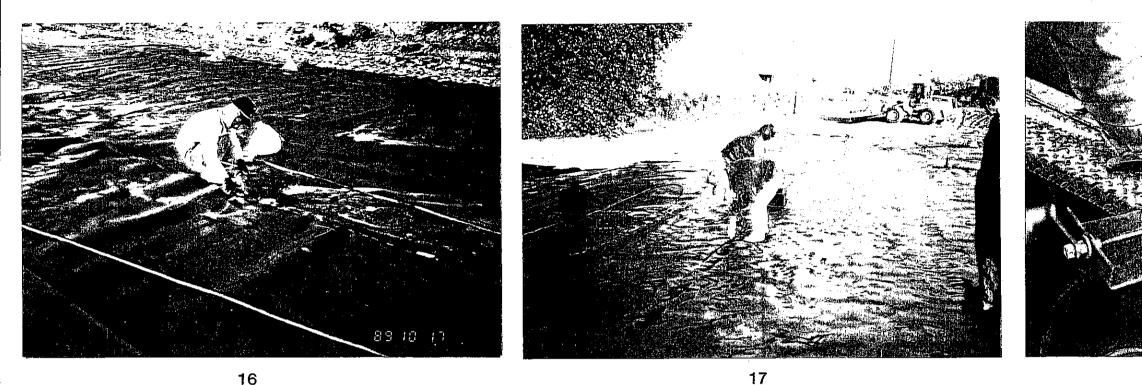
ENGLEWOOD, COLORADO

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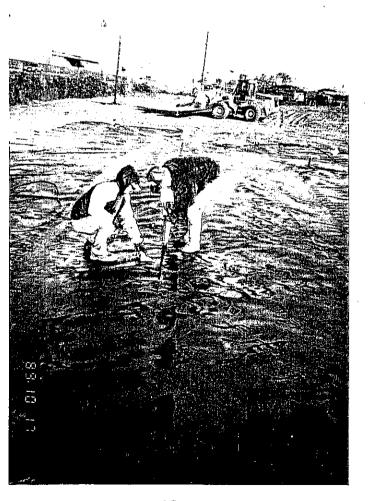
DESCRIPTION OF PHOTOGRAPHS

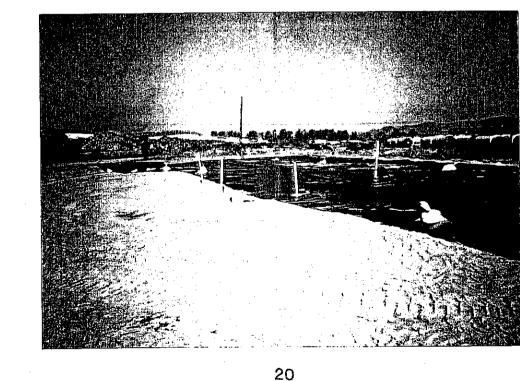
11. Preparation of base for HDPE liner. Roller used for compaction is shown. 12. Preparation of base for HDPE liner. Water application shown in back-ground.

Compaction testing of base using a nuclear density gauge.



16

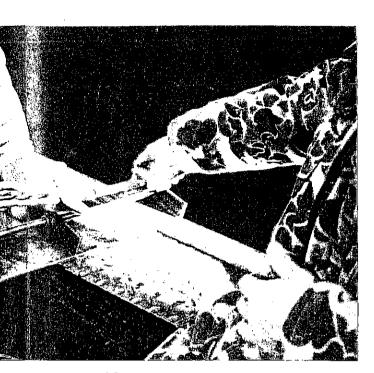




JAMES L GRANT & ASSOCIATES geotechnical engineering • management • Jlq computer science ENGLEWOOD, COLORADO

20. Monitoring well and pipe extensions through the HDPE sheets.

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DESCRIPTION OF PHOTOGRAPHS

Cleaning at seam in preparation for welding.

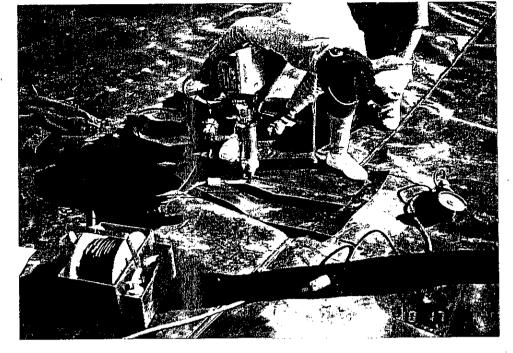
17. Extrusion welding of HDPE sheets.

18. Field tensile test being performed on sample weld.

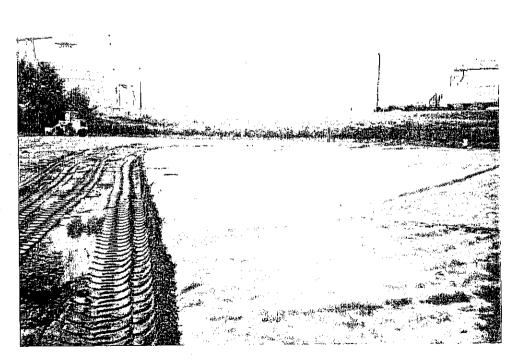
19. Extrusion welding of HDPE sheets.

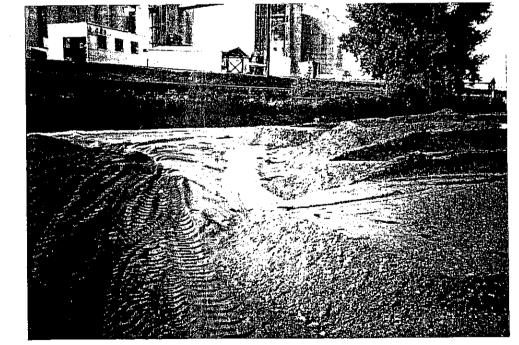


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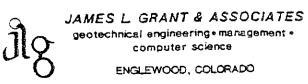
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DESCRIPTION OF PHOTOGRAPHS

21. Repair of HDPE damaged during place-ment of cover.

22. Preparation of HDPE boot for pipe extension.

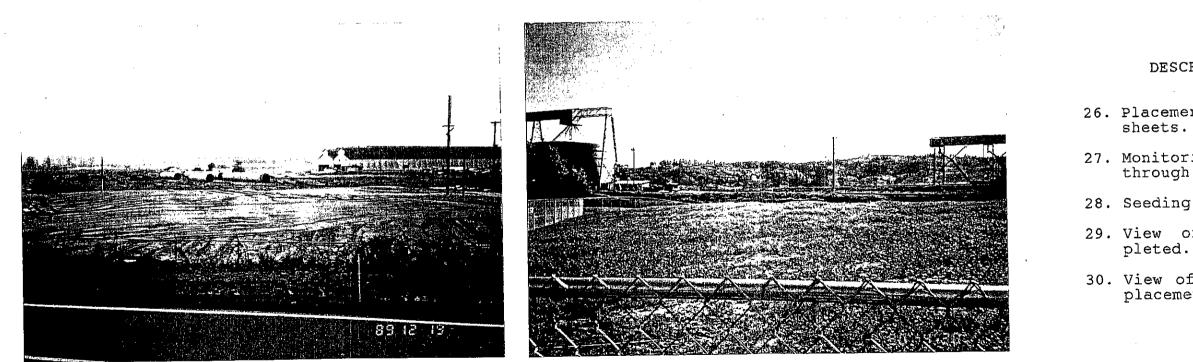
23. Boot placed around pipe extension.

24. Backfill placement in anchor trench.

25. Placement of soil layer over HDPE sheets.



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ENGLEWOOD, COLORADO

28

DESCRIPTION OF PHOTOGRAPHS.

26. Placement of soil layer over HDPE sheets.

27. Monitoring well and pipe extensions through HDPE and soil layer.

28. Seeding of soil layer.

- 29. View of area after seeding completed.
- 30. View of area after perimeter fence placement.

PHOTOGRAPHS OF CLOSURE ACTIVITIES INTERNATIONAL PAPER FACILITY LONGVIEW, WASHINGTON

APPENDIX C

$\mathtt{WASTE}_{\!\!\!\!\!\!\!\!\!\!}$ inventory reduction documentation

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5	P. Designated Facility Name and Site Address Chem-Security Systems, Inc. Star Route	10. US EPA iD Number		H. Foc	ta Facility's ID ility's Phone		· · · · · · · · · · · · · · · · · · ·
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OREGON ACCIDENT RESPONSE CENTER 1. E00452-0311 STREET, DOG 31 86 tim designed for the provide of 2 Manifest Document No. Information in the shaded areas is not required by Federal law. 2. Page 1 Generator & US EPA ID No. UNIFORM HAZARDOUS nf VARA. 1174951 WASTE MANIFEST A. State Manifest Document Number 3. Generator's Name and Mailing Address COMANY TERNATIONAL 10 JARCENATIONAL WAY Ad. 130x 579 8. State Generator's ID ING UIGH LYPSH 4. Generator's Phone (C. State Transporter's ID US EPA ID Number 5. Transporter 1 Company Name D. Transporter's Phone 005097 345 Closta CTCSOL E. State Transporter's ID US FPA ID Number 7. Transporter 2 Company Name F. Transporter's Phone G. State Facility's ID 9, Designated Facility Name and Site Address 10 US EPA ID Number Chem-Security Systems, Inc. H. Facility's Phone Star Route 503-454-2643 ORD 089 452 353 Arlington, Oregon 97812 EPA/1. 12. Containers 13. 14. 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) Unit Total Waste No. Туре Quantity Wt/Va No. HAZARDEUS WHSTE SOUD NOS CRECSOTE & PONTRACHOROANOL a. 1001 99105 447.40 ь. c. d. Hopeling Codes for Worlds Hared Al CE. YD. Additional Descriptions for Materials Listed Above Contoininated PR LBS D AREA Q c. 71 GAL d. 15. Special Handling Instructions and Additional Information Waste Profile Sheet Number(s) а. E 13972 ь. d. 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper ٩. shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations. Date Day Month Year Printed/Typed Name Signature AMIN 585 Date 17. Transporter 1 Acknowledgement of Receipt of Materials Day Year Month Signature Printed/Typed Name S aEN9 18. Transporter 2 Acknowledgement of Receipt of Materials Dote Monih Day Yea Signature Printed/Typed Name heronas arðl 19. Discrepancy Indication Space ruce . # instructions, not in "container," 20. Facility Owner or Operatory Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Date Dos d/Jyged U ORIGINAL-RETURN TO GENERATOR

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3.	Generator's Name and Mailing Address	Cater 2	com	NY		A, State	Manifest Docum	ient Num	ber .
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		US EPA ID Numbe		G. State F	rter's Phone		
P. Designated Facility Name and Site Address Chem-Security Systems, Inc.						••	
Star Route				H. Fedlity	s Phone 54-2643		
Arlington, Oregon 97812	· · ·	ORD 089 452	12. Cont	L	13.	14.	EPA/1
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З.	Generator's Name and Mailing Address		Cine and and	1241	A. Stat	e Manifest Docur	nent Numi	ber
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5.	Transporter 1 Company Name	6.				e Transporter's It		
	Transporter 2 Company Name	NC. C	9. <i>6.6.7</i>			e Transporter's Phone		41.50
1		1	<u> </u>	<u></u>		sporter's Phone		
9.	Designated Facility Name and Site Address	10	0. US EPA ID Numb	per	G. Sta	te Facility's ID		
	Chem-Security Systems, Inc. Star Route Arlington, Oregon 97812	1	ORD 089 452	353		ility's Phone 3-454-2643	244 1	
11	1. US DOT Description (Including Proper Shipping Nam	me, Hazard Class	s, and ID Number)	12. Cor No.	tainers Type	13. Total Quantity	14. Unit Wt/Vol	EPA/ <u>1</u> Waste No.
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	Generator's Phone (<u> </u>			4. j.		
5	Transporter 1 Company Name	6. US EPA ID Number	3.4.37	D. Transpe	ransporter's ID orter's Phone	28	5-150
7	7. Transporter 2 Company Name	8. US EPA ID Number			ansporter's ID rter's Phone		
5	P. Designated Facility Name and Site Address Chem-Security Systems, Inc. Chem Paulo	10. US.EPA ID Number		G. State F H. Facility			
	Star Route Arlington, Oregon 97812	ORD 089 452 3		503-4	154-2643	14.	EDA /
	11. US DOT Description (Including Proper Shipping Name, Hazard		12. Cont No.	Type	Total Quantity	Unit Wt/Vol	EPA/1. Waste No.
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	16. GENERATOR'S CERTIFICATION: I hereby declare that the co- shipping name and are classified, packed, marked, and lat according to applicable international and national government.	beled, and are in all respects in pr	nd accurately oper condition	y described on for trans	above by prop port by highwo	er by	Dote
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L L I T V	20. Facility Owner or Operator: Certification of receipt of hazar		lifest except	as noted in	ltem 19. T]	Date Monté Day Yese
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3. Generator's N	lame and Mailing Addr	ress		-			A. Stot	e Manifest Docur	nent Num	ber
- R.O. BC	TRNATIONAL DX 579	10 INTER	NATIO	جرىء بريد	4		B. State	e Generator's ID		<u></u>
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	Company Name	Jan Hell	6.	US EPA	iD Number			e Transporter's il		
Crosbe	23 Over	the In	va k	1.R.D.6.5.C		3.4.3.7		sporter's Phone		-1150
7. Transporter 2	Company Name		8. 	. US EPA	ID Number			e Transporter's II isporter's Phone		
Designated F	acility Name and Site A	Address	L](0. US EPA	ID Number			te Facility's ID		•
	ecurity Systems								· ·	• •
Star Route	•		ł	ORD OF	89 452 35	53		ility's Phone 3-454-2643		
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	rter 1 Company Name	2 2/10	6. US EPA ID Number	r	C. State Tr	ansporter's ID	1	
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11. US DC	T Description (Including Proper SI	hipping Name, Hazard Cli	ass, and ID Number)	12. Contr No.	Type	13. Total Quantity	14. Unit Wt/Vol	EPA/1. Waster No.
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Generator's Phone (206) 4 Trapsporter 1 Company Name	32 2110	6. US EPA ID Number		C. State 1	'ransporter's ID		
	on INC	1.R.D.O. 5.0.9.7.	34.3.7	D. Transp	orter's Phone -	223	-1150
Transporter 2 Company Name		8. US EPA ID Number			'ransporter's ID		N
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Designated Facility Name and Site Ac	_	10. US EPA ID Number	•	G. State	Facility's ID		
Chem-Security Systems, Star Route	, Inc.			H. Facility	's Phone	······································	· .
Arlington, Oregon 97812		ORD 089 452 3	53	503-	454-2643		
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9. Designated Facility Name and Site Address Chem-Security Systems, Inc.	10. US EPA ID Number		Transporter's Phone State Facility's ID	
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3130 OREGON ACCIDENT RESIDES CONTRACTOR Information in the shaded areas is not required by Federal law. 2. Page 1 1. Generator's US EPA ID No. Mänifest Document No. UNIFORM HAZARDOUS 11.A.D.O.I.C.T.4.95.1.7 WASTE MANIFEST A. State Manifest Document Number 3. Generator's Name and Mailing Address Compan INTEENATIONAL ERNATICNAL W 10. Box WASH B. State Generator's ID 4. Generator's Phone 2010 US EPA ID Number C. State Transporter's ID 6. Transporter 1 Company Name 5. D. Transporter's Phone ロボロロ・ゴ・セ・ショフ・フ・フィー・フレ E. State Transporter's ID 7. Transporter 2 Company Name F. Transporter's Phone-9. Designated Facility Name and Site Address 10. US EPA ID Number G. State Facility's ID Chem-Security Systems, Inc. H. Facility's Phone Star Route ORD 089 452 353 503-454-2643 Arlington, Oregon 97812 EPA/L 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers 13. Total Unit Waste No. No. Type Quantity Wt/Va HALARDOUS WASTE SOLID MA LADOSTE & PENTRACHLOROPHENDL NA 97 NOS а. 1700/ ь. c. d. Additional Descriptions for Materials Listed Above 변한, 누약 I. Contominated Soils Containing COSOTE COAL & PENTRACHLORDALENOL D PR 1.85 c. d. GAL 15. Special Handling Instructions and Additional Information Waste Profile Sheet Number(s) a. F 13922 ь. c. d. 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations. Date Signature Month Day Year Printed/Typed Name tmin ... 17. Transporter 1 Acknowledgement of Receipt of Materials Date Month Day Year Printed/Typed Name Signatu کن .7 s, 110 Date 18. Transporter 2 Acknowledgement of Receipt of Materials Day Month Year Signature Printed/Typed Name R 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. ORIGINAL-RETURN TO GENERATOR

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WASTE MANIFEST	1. Generator's US E []. 4:170.1.6	PAID No. M. Docu	anifest ment No.	2. Page 1 of	not requir	ed by Fe	shaded areas is derai law.
Generator's Name and Mailing Address	مردوسين متل	المراجدهون		A. State A	Aanifest Docum	ent Numb	ler.
40 530X 3741 121 2001	25 6 C. 4 17 CA	منوطرته مسارري		B State (enerator's ID		
Generator's Phone (306) 437						•	
Transporter 1 Company Name	<u>ه.</u> ۵.	US EPA ID Number			fransporter's ID		
Parties Alletter Inc		0. R.D. D. 5. 0 9.73	7.4.37		orter's Phone	28 <u>-</u>	3-1150
. Transporter 2 Company Name	8. I				ransporter's ID orter's Phone		
. Designated Facility Name and Site Address	l). US EPA 1D Number	<u>· · · ·</u>		Facility's ID		
Chem-Security Systems, Inc.					· ·		
Star Route		000 000 460 20		H. Facilit	y's Phone 454-2643		
Arlington, Oregon 97812		ORD 089 452 35	12. Cont		13.	14.	EPA/1
1. US DOT Description (Including Proper Shipping	ı Name, Hazard Class	s, and ID Number)	No.	Type	Total Quantity	Unit Wt/Vol	Waste No.
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CHEOSOTE & TENN		NA 9177		1074	13.840	<u>nr</u>	
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J. Additional Descriptions for Materials Listed Abo	ove	1.		WPS	ling Coder for	CU. FT	CU.YD.
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I. Additional Descriptions for Materials Listed Abo a. Contraminated E b. c. d. CREDSOTE COTH 3	PENTAC	HOPOPHENOL		AREA	S D	Q. PR	44420
			_		27K	14	GAL
15. Special Handling Instructions and Additional			(s)				<u>_</u>
α.	(-13922			\frown	– 1	
Ь.					1)	-81	
b.	_					· · ·	
c. d.							
c. d.	clare that the content	is of this consignment are fully a d, and are in all respects in pr	nd accurate oper conditi	ly described	above by prop sport by highw	er ay	
c. d.	marked, and labeled	and are in all respects in pr	nd accurate oper conditi	ly described ion for tran	above by prop sport by highw	er ¤y	Date
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3	. Generotor's Name and Mailing Address	1571110 00 V)	A. State A	Aanifest Docum	ient Num	ber .
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	. Transporter 1 Company Name	6. US EPA ID Number			ransporter's ID		
	Transporter Company Name	8. US EPA 1D Number	4- 3,		arter's Phone	283	5-1160
'		<u>.</u>	<u>.</u>	<u> </u>	orter's Phone		······
\$	P. Designated Facility Name and Site Address Chem-Security Systems, Inc.	10. US EPA ID Number		G. State	Facility's ID		
	Star Route Arlington, Oregon 97812	ORD 089 452 3	53	H. Focility 503-	/s Phone 454-2643	i ta ini Ali	
	11. US DOT Description (Including Proper Shipping Name, Hazard (Class, and ID Number)	12. Cont No.	oiners Type	13. Total Quantity	14. Unit Wt/Vol	EPA/1. Waster No.
	-CRESOTE É PENTRUHACA	SOLID NOS OPHEROL			-1.7.20		1.001
┝	- <u>CACOSOTE</u> <u>C</u> , -	N/4- (3/3)			<u>r/ / / / / { /</u>		,,
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	J. Additional Descriptions for Materials Listed Above a. Contaminate Soil Co b. c. Crecover COAL & PENS d.				3720 =A S D -108 F		195,0 1971 LBS5,2 1992 GAL
	 15. Special Handling Instructions and Additional Information W a. b. c. d. 	aste Protile Sheet Number		D)-8]		
	 GENERATOR'S CERTIFICATION: I hereby declare that the cor shipping name and ore classified, packed, marked, and lab according to applicable international and national governme 	eled, and are in all respects in pri	nd accuratel oper.conditio	y described on for trans	above by prop port by highw	er oy	Date
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	Printed/Typed Name	Signature Get C	2=1	~ (-//2		Month Day Ye
	18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name	Signature			<u> </u>	.لــــــــــــــــــــــــــــــــــــ	Date Month Day Ye
-	19. Discrepancy Indication Space				<u></u>	1	
FACI	20. Facility Owner or Operator Certification of receipt of hozoro	dous materials covered by this man	ifest except	asquited in	Item 19.	:	
Ĭ		(<u>1</u> ;)		2	<u>, </u>	[Date Month Day Y
	Printed Typed Name ////////////////////////////////////	- Sarl	Th	ull.	Inde		51018
a,		<u> </u>	/				

	1. Generator's US EPA	. Dec	Aanifest ument No,	2. Page 1 of	Information not require	on in the red by Fe	shaded areas i deral law.
WASTE MANIFEST . Generator's Name and Mailing Address مرجع مرجع المركبين	7	······	· · ·	A. State M	anifest Docum	ent Numi	or
FINTERWATTOWAN PAP	EN COM	TICHAL WA	4	<u>.</u>			
Generator's Phone (2011) 432				B. State Ge	anerator's ID	•	
, Transporter 1 Company Name	2110	US EPA ID Number		C. State Tr	ansporter's iD		
Company a Chierton		9005079			rter's Phone		3-1150
. Transporter 2 Company Name	8.	US EPA ID Number			ansporter's ID		
	10.	US EPA ID Number	• • •	F. Transpo G. State Fr	rter's Phone		
Chem-Security Systems, Inc.	10.	US CPA ID NUMBER					
Star Route				H. Facility'		/	
Arlington, Oregon 97812		ORD 089 452 3			54-2643		
1. US DOT Description (Including Proper Shipping	y Name, Hazard Class, ar	nd ID Number)	12. Cont No.	diners Type	13. Total Quantity	14. Unit Wt/Vol	EPA/ _{1.} Waste No.
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a. Contrinuit Descriptions for Materials aster Add	Sals Co	ntain in-	 	WPS	2011	1203 F	
a. Containination -	Sois Co.	ntain in-	1	K WPS	3922		R LBS
a. Containinated - b. Containinated - c. Creosote Coal =	Pentrac	h loro phino	l		3922 s D		R LBS5//8
J. Additional Descriptions for Materials Listed Abo a. Containing and a b. c. Creasote Coal = d. Creasote Coal =					3922 15 0 14 K		28.
a. Containination - b. c. Creosote Coal = 15. Special Handling instructions and Additional a.	Information Waste P	rofile Sheet Number		T -			R LBS5//8
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15. Special Handling instructions and Additional a.	Information Waste P	rofile Sheet Number		T -			R LBS5//8
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WASTE MANIFEST (24) 3. Generator's Name and Mailing Address			· · ·	A. State	Manifest Docum	nent Num	ber
INTERNATIONAL PAPE							
	VIEDENSATT UNU.		-	B. Stote	Generator's ID		
4. Generator's Phone (<u>2006)</u> 5. Transporter 1 Company Name	h Apsil-Vicesia	FPA ID Number		C. State	Transporter's IC	· · · · · · · · · · · · · · · · · · ·	
Carebu & Constant The	0. 00		.2.3.7				3-11.50
7. Transporter 2 Company Name	8. US	5-0-7-9-3 EPA ID Number			Transporter's ID		
			<u></u>		corter's Phone		
P. Designated Facility Name and Site Address	10. US	EPA ID Number		G. State	Facility's ID	:	·
Chem-Security Systems, Inc. Star Route					ly's Phone		<u>.</u>
Arlington, Oregon 97812		0 089 452 35			454-2643		
11. US DOT Description (Including Proper Shipping Nam			12. Cont No.	Туре	13. Total Quantity	14. Unit Wt/Vol	EPA/ _{1.} Waste No.
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J. Additional Descriptions for Materials Listed Above a. CONTRAMINATED Sold b. c. CLEBSOTE COAL & PONT d. 15. Special Handling Instructions and Additional Inform a.	nation Waste Profile Sh	eet Number(5)	$ \mathcal{E} $	1392 EA S D -10161	A J	d/ı
a. CONTRACTED Sold b. c. LLEBSOTE COAL & PONT d. 15. Special Handling Instructions and Additional Inform		eet Number(5)	$ \mathcal{E} $	1392	2	TH LBS 50
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R 1 OREGON ACCIDENT RESPONSE CENTER 1 4001452-031 Generator's US EPA ID No. Manifest Document No. 2. Page Information in the shaded areas is not required by Federal law. UNIFORM HAZARDOUS of 64001074951 WASTE MANIFEST A. State Manifest Document Number 3. Generator's Name and Mailing Address Com CERPATIERAL ERMATION 579 a EUX 8. State Generator's ID WASH - 1a 4. Generators P 120 US EPA ID Number C. State Transporter's ID Transporter 1 Company Name ٨ 5. J33. 2.5.1. D. Transporter's Phone E. State Transporter's ID US EPA ID Nu 8 7. Transporter 2 Company Name F. Transporter's Phone 9. Designated Facility Name and Site Address G. State Facility's ID 10. US EPA ID Number Chem-Security Systems, Inc. H. Facility's Phone **Star Route** 503-454-2643 ORD 089 452 353 Arlington, Oregon 97812 EPA/I. 12. Containers 13. 14. 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) Total Unit Waste No. No. Туре Wi/Vol Quantity NOS MALANDOUS WASTE 3001 PAROSCIE COM SPERIERCH ふってつ а. UCROHLEN. Ker 10750.01 0 614 ь. G с. d. CU. Fi J. Additional Descriptions for Materials Listed Above Soil Contra yom wat α. Ъ. · BAL & PENTRACHLORDAHONDI LBS PR Q D c. GAL d. 15. Special Handling Instructions and Additional Information Waste Profile Sheet Number(s) a. 13922 ь. c. d. 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations. Date Day Month Year Signature Printed/Typed Name :5 Ŗ. 11h Date 17. Transporter 1 Acknowledgemen of Receipt of Materials • Month Day Year Printed/Typed Nome Signature 7 ٠Ļ Date 18. Transporter 2 Acknowledgement of Receipt of Materials Day Month Year Signature Printed/Typed Name . 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Date Typed/Ndme Signa ORIGINAL-RETURN TO GENERATOR

	1. Generator's US EPA リード・ア・ハー・ク・フ	Dee	Vanifest Ument No.	2. Page 1 of	Informati not requi	on in the red by Fe	shaded areas i deral law.
3. Generator's Name and Mailing Address	APER ID. 9- DNERA	mean	-pe	A, State M	anifest Docum	ient Numl	ber
A. Generators Phone (Jay) 432				B. State G	enerator's ID		
5. Transporter 1 Company Name	6.	US EPA ID Number 7. 0. 6. 5. 0. 7. 5.			ansporter's ID arter's Phone		31150
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9. Designated Facility Name and Site Address Chem-Security Systems, Inc.	10.	US EFA ID Momber		G, 30181	dainy's io		
Star Route Arlington, Oregon 97812		ORD 089 452 3	53	H. Facility' 503-4	s Phone 154-2643		
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5	Star Route Arlington, Oregon 97812	ORD 089 452 3	53 .		y's Phone 454-2643		
11.	US DOT Description (Including Proper Shipping Name, Hazard	d Class, and ID Number)	12. Cont No.	ainers Type	13. Total Quantity	14. Unit Wt/Vol	EPA/I. Waster No.
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3.	WASTE MANIFEST	1.0.7.4.5.9.17	· · ·		e Manifest Docu	ment Nur	ber
-	INTERNATIONAL PAPER LOMPANU						
4.	PO. 30X 579/ 10 INTERNATION, LONGVIEW WALL ARG32 Generator's Phone (206) 423-2110	AL DUNY		B. Stat	e Generator's ID		
	. Transporter 1 Company Name	6. US EPA ID Numbe	r	C. Sto	le Transporter's I	D	
	PROSEY & OUCETAL INC.	0.8.0.0.7.0.7.3.	<u>9.395</u>	D. Tra	nsparter's Phone	283	1150
7.	, Transporter 2 Company Name	8. US EPA ID Numbe	r		e Transporter's II	0	
_			<u> </u>	<u>;</u>	sporter's Phone		
9.	Designated Facility Name and Site Address	10. US EPA ID Numbe	r	G, Sta	te Facility's ID		
	Chem-Security Systems, Inc. Star Route			H For	ility's Phone		
	Arlington, Oregon 97812	ORD 089 452 3	53		3-454-2643		
1	1. US DOT Description (Including Proper Shipping Name, Hazard)	Class, and ID Number)	12. Cont No.	ainers Type	13. Total Quantity	14. Unit Wt/Vol	EPA/1. Waste No.
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3,			<u> </u>	A. State	Manifest Docum	ent Num	ber
-	Generator's Name and Mailing Address INTERNATIONAL PAPETE COMM PO BOX 579 - 10 INTERNATIO FONGUIEW. WASH 98632	ONAL WAY			·	•	and an and a second second
	LONGUIEN WASH 58632				Generator's ID		
	Generator's Phone (206) 423-2110 Transporter 1 Company Name	6. US EPA 1D Number	,		Transporter's ID	• <u> </u>	
э.	(ROSBY = Overtw INC	D.R.D.O.7.0.7.3.C	7.7.95		orter's Phone		
7.	Transporter 2 Cómpany Name	8. US EPA ID Number		}	Transporter's ID		
			<u>· · ·</u>		iorter's Phone	503	-289-574
9.	Designated Facility Name and Site Address	10. US EPA ID Number		G. State	Facility's ID	- 7	
	Chem-Security Systems, Inc. Star Route				y's Phone		
	Arlington, Oregon 97812	ORD 089 452 3	5 <u>3</u>	503	454-2643	· ·	·· ·
1	1. US DOT Description (Including Proper Shipping Name, Hazard	Class, and ID Number)	12. Cont	1	13. Total	14. Unit	EPA/1. Waste No.
	Una har rais & unative Kar 12	NOS	No.	Type TateP80	Quantity 16/0 G,	Wt/Vol	
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	a. CONTAMINATED SOILS C b. CREDSOTE-COAL & PENTRACHLO d. 15. Special Handling Instructions and Additional Information W			ARE	A S D D 11 R	a p a d	R 19685 7 GAL
	 Special Handling Instructions and Additional Information - W a. 	aste Profile Sneet Number	(5)		\cap		
	b. N/				-(-)-	61	
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+	JAY C AMIN 17. Transporter 1 Acknowledgement of Receipt of Materials		7		1		Date
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	Crosby & Overtry INC by The		Lu-		mit		2 3 8
	18. Transporter 2 Acknowledgement of Receipt of Materials			Ţ			Date Manth Day Ye
	Printed/Typed Name	Signature				i	• • •
	19. Discreponcy Indication Space						
╡	19. Discrepancy Indication Space						
:		dous materials covered by this man	ifest except (as noted in	Item 19.	•	
	20 Facility Owner or Operator: Certification of receipt of nazar	· · ·	·]	Date
	20. Facility Owner or Operator: Certification of receipt of hazar						
	20. Facility Owner or Operator: Certification of receipt of hazar Printed/Typed Name	Signature		0	١.	1	Month Day Y
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	UNIFORM HAZARDOUS WASTE MANIFEST	EPA ID No. 0.7.49.51.7		nifest nent No.	2. Page of	e 1 Informa not requ	tion in the pired by F	e shaded areas ederal law.
	Generator's Name and Mailing Address	11 A			A. Stat	e Manifest Dacu	ment Num	ber
	$-\mu\alpha$ $-\alpha$ $-\gamma\gamma$ $-$	IONAL WAY			B. State	e Generator's ID		
	+ 0 N 6 V 1 E W , M9514 Generator's Phone (206) 423 - 2110 Transporter 1 Company Name 6	S. US EPA ID I	Number		C Stat	e Transporter's I	<u>n</u>	
	GRESHAM TRANSFER INC	O.R.D. 0.5.0.9	7.3.	4.3.7				288-574
	7. Transporter 2 Compony Name 8	US EPA ID I	Number			e Transporter's li sporter's Phone	D	
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	Chem-Security Systems, Inc. Star Route					ility's Phone		
	Arlington, Oregon 97812	ORD 089 4	452 353	12. Cont	I	3-454-2643 13.]4.	CDA /
	1. US DOT Description (Including Proper Shipping Name, Hazard Clas			No.	Туре	Total Quantity	Unit Wt/Vol	EPA/ _{1.} Woste No.
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	J. Additional Descriptions for Materials Listed Above	DS, com	+MIN	AT 127		ndling Codes for	Wastes Li	
	J. Additional Descriptions for Materials listed Above a. HAZARDOUS WASTE SOLI. b. DOLLS CONTAINING CAL c. PENTRACHLOROPHENOL d.	ESOTZE - Z	log_	- ×	E	13922		30,7
	d. PENTRACHLORO MENOL	•			AR	IEA S. D		R LBS
ľ	15. Special Handling Instructions and Additional Information Wast	e Profile Sheet Nu	mber(s))	1-	10 10 1		[GAL
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	16. GENERATOR'S CERTIFICATION: I hereby declare that the content shipping name and are classified, packed, marked, and labeled according to applicable international and national governmental	d, and are in all respec	e fully and its in prop	accurately er conditio	describe n for tra	ed above by prop insport by highw	per vay	
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	17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name	Signature	<u> </u>	6-	11 1	. [!!	Month Day
	18. Transporter 2 Acknowledgement of Receipt of Materials	- Jei	1.1.1	6	1A	afa-	<u></u>	3 3 Date
	Printed/Typed Name	Signature						Month Day
i	19. Discrepancy Indication Space	l					I	<u> </u>
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L I T	20. Facility Owner or Operator: Certification of receipt of hazardous	materials covered by t	his monife:	st except a	s noted i	in Item 19,	ſ	Date
Ý	Printed/Typed Name	Signature	()	0.5	\bigcirc	()	1	Month Day
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3	Generator's Name and Mailing Address INTERNATIONAL PARET PO. 50X 579 - 0-DYR	2 CO7	MAANG	1 Marte		A. Stat	e Manifest Docum	nent Numi	ber
	PO. BOX 579 - 10 WY	ERIVA	TONA	- way		B. Stat	e Generator's ID		
	4. Generator's Phone (FUE) 423.	2110	ó.	US EPA ID Nun			e Transporter's IC	<u>.</u>	
	5. Transporter ! Company Name CRESHAM TRANSFER :	TNE.). 0. 5. 0 <u>. 9</u> .		L	sporter's Phone		199 574
F	7. Transporter 2 Company Name		8. t	US EPA ID Nun	nber		e Transporter's ID) – o – v	
	9. Designated Facility Name and Site Address		10.	US EPA ID Nun	nber	<u>+</u>	sporter's Phane te Facility's ID		
	Chem-Security Systems, Inc.								
	Star Route Arlington, Oregon 97812			ORD 089 45	2 353		ility's Phone 3-454-2643		
-	11. US DOT Description (Including Proper Shipping N	ame, Hazard C	lass, and ID	Number)	12. Con	s_ 1	13. Total	14. Unit	EPA/I. Waste No.
$\left \right $. HALARDOUS WASTE	= 506	10	NUS	No.	Tuno	Quantity 90 510 G		
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	d. :								
	J. Additional Descriptions for Materials Listed Above a. CONTAMINATED b. DECCOTION	SOIL	-5 CC	WTAIN LORDPI	INC-	WP	ndling Codes for S 922 pc S 929		CU. YD.
	a. CONTAMINATED b. CREOSOTE-COAL e d.	SOIL					3249	CU. FT	
	a. CONTAMINATED b. CREOSOTE - COAL & d. 15. Special Handling Instructions and Additional Inf a.	SOIL				WP	3249	CU. FT	CU. YD. 28.58 LBS9/80
	a. CONTRAMINATED b. CREOSOTE - COAL c. CREOSOTE - COAL d.	SOIL				WP	3249	CU. FT	CU. YD. 28.58 LBS9/80
	a. $CONTAMINATET$ b. $CREOSOTE-COAL$ e d.	SOIL PENT	aste Profil	e Sheet Num	ber(s)		s 922 p 3299 i0 8 R i0 8 R		CU. YD. 28.58 LBS9/80
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	- ONA VIE VI, VIA CAI				B. Sta	ie Generator'	s ID			
·)	I. Generator's Phone (206) 423 - 2110									
5	5. Transporter 1 Company Name		5. US EPAID N	· · · ·		te Transporte nsporter's Pho				
	<u>GRESHAM TRANSFER INC</u> 7. Transporter 2 Company Name		0. R. D. D. 5. 0. 9 3. US EPA ID NO			te Transporter				
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5	Designated Facility Name and Site Address	1	10. US EPA ID N	umber	G. Sto	ite Facility's IC	-			
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+	11. US DOT Description (Including Proper Shipping Name,	. Hazard Clas	ss, and ID Number)		ontainers	13. Total	L	14. Unit	EPA/1 Wast	
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[CROSS/2 Overton	INC	0.200:	5.6.9.7.3	4.37	D. Tran	sporter's Phone	283	8-1150
7	7. Transporter 2 Company Name	•	8. USI	EPA ID Number			Transporter's ID		<u> </u>
	7. Designated Facility Name and Site Address			EPA ID Number	<u>· · ·</u>		sporter's Phone e Facility's ID	یہ در یہ کچنے م	14-1-0-
7	Chem-Security Systems, Inc.							م بالم الم الم الم الم الم الم الم الم الم	
1	Star Route Arlington, Oregon 97812			0 089 452 35	3		lity's Phone 3-454-2643		
1	11. US DOT Description (Including Proper Shipp	ing Name, Hazard C			12, Cont	1 I	13. Total	14. Unit	EPA/1. Waste No.
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INTERNATIONAL PAPER COMPANY

P.C. BOX 809024. DALLAS. TEXAS 75380-9024

ENVIRONMENTAL SERVICES (WEST)

June 4, 1986

PHONE (214) 934-6000

Ms. Judy Belcher Department of Ecology Southwest Regional Office 7272 Cleanwater Lane, M.S. LU-11 Olympia, Washington 98504

Dear Ms. Belcher:

Enclosed you will find copies of the laboratory test results for soil samples taken from surface impoundments #1 and #2 after the inventory reduction of 1985. These test results confirm that all extremely hazardous and dangerous wastes have been removed from the regulated units.

I want to thank you for taking the time to meet with us last week at the site and for discussing your concerns with us. As you know, we are most interested in obtaining an approved closure plan for this site so that work can begin this summer on the closure. Five years have now passed since the first closure plan was prepared in May 1981. I am sure you will agree the time is ripe for the actual closure process to begin.

Please feel free to call me at (214) 934-4079 if you have any questions or comments on the closure plan so that we might resolve them as quickly as possible.

Sincerely,

Stephen Carter Environmental Coordinator

SC:jk:4097E

Enclosure

cc: Clark Haberman, Mgr. DOE SW Reg. office - w/attach George Hofer, EPA Reg. X - w/attach Ted Wall, EPA Reg. X - w/attach

 (\bigcirc)

bcc: Jay Amin David Critchfield Howard Daniel Bob Funkhouser Jim Grant Alan Lindsey Dick Russell

.

Client: International Paper Co., ATTN: H. Lienert Client Address: 3101 International Drive, East Mobile, AL 36606

Client Sample Identification: Pond #1 Composite Sample Date Sample Collected: 09-25-85 Date Sample Received: 10-04-85

ANALYTICAL RESULTS

UHL Lab No. 507922.

Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)*
naphthalene	21	10
acenaphthene	56	10
fluorene -	36	10
pentachlorophenol •	ND	10
phenanthrene	74	10
methyl anthracenes	23	10
fluoranthene	58	10
pyrene	44	10
chrysene	. ND	10

Analytical Method: EPA Method 8270

Analyst: C. Maw/K. Kline Verified: Jule Date Reported: 10/16/85

ND = Below detection limit. *Client specified quantitation limit.

Client: International Paper Co., ATTN: H. Lienert Client Address: 3101 International Drive, East Mobile, AL 36606

Client Sample Identification: Pond #2 North End Date Sample Collected: 09-25-85 Date Sample Received: 10-04-85

ANALYTICAL RESULTS

UHL Lab No. 507921

Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)*
naphthalene	ND	10
acenaphthene	ND	10 -
fluorene .	ND	10
pentachlorophenol ·	ND	10
phenanthrene	ND	10
methyl anthracenes	ND	10
fluoranthene	10	10
ругеле	ND	10
chrysene	ND	10

.

Analytical Method: EPA Method 8270

Analyst: C. Maw/K. Kline Verified: Date Reported: 10/16/85

ND = Below detection limit.
*Client specified quantitation limit.

F57/507921

(

Client: International Paper Co., ATTN: H. Lienert Client Address: 3101 International Drive, East Mobile, AL 36606

Client Sample Identification: Pond #2 - 50 feet from north end Date Sample Collected: 09-25-85 Date Sample Received: 10-04-85

ANALYTICAL RESULTS

UHL Lab No. 507920

Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)*
naphthalene	ND	10
acenaphthene	ND	10
fluorene	- ND .	10 `
pentachlorophenol ·	ND	10
phenanthrene	ND	10
methyl anthracenes	ND	10
fluoranthene	ND	10
ругеле	ND	10
chrysene	. ND	10

Analytical Method: EPA Method 8270

Analyst: C. Maw/K. Kline Verified: July Date Reported: 10/15/85

ND = Below detection limit.
*Client specified quantitation limit.

F57/507920

Client: International Paper Co., ATTN: H. Lienert Client Address: 3101 International Drive, East Mobile, AL 36606

Client Sample Identification: Pond #2 - 100 feet from north end Date Sample Collected: 09-25-85 Date Sample Received: 10-04-85

ANALYTICAL RESULTS

UHL Lab No. 507919

Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)*
naphthalene	ND	10
acenaphthene	ND	10
fluorene	- ND	10
pentachlorophenol '	ND	10
phenanthrene	ND	10
methyl anthracenes	ND	10
fluoranthene	37	10
pyrene	25	10
chrysene	. 11	10
	· ·	

Analytical Method: EPA Method 8270

Analyst: C. Maw/K. Kline Verified:

ND = Below detection limit.
*Client specified quantitation limit.

F57/507919

Client: International Paper Co., ATTN: H. Lienert Client Address: 3101 International Drive, East Mobile, AL 36606

Client Sample Identification: Pond #2 - 150 feet from north end Date Sample Collected: 09-25-85 Date Sample Received: 10-04-85

ANALYTICAL RESULTS

UHL Lab No. 507918-

Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)*
naphthalene	ND	10
acenaphthene	ND	10
fluorene	- [.] ND	10
pentachlorophenol •	ND	10
phenanthrene	ND	10
methyl anthracenes	ND	10
fluoranthene	ND	10
pyrene	ND	10
chrysene	. ND	10

Analytical Method: EPA Method 8270

Analyst: C. Maw/K. Kline Verified: Date Reported: 10/15/85

ND = Below detection limit. *Client specified quantitation limit.

APPENDIX D

IMPOUNDMENT BACKFILL DOCUMENTATION

810352: 5-11-90

GIBBS & OLSON, INC.

ENGINEERS PLANNERS SURVEYORS

March 16, 1990

Noelle Sears James L. Grant & Assocs., Inc. 8301 E. Prentice Ave., Suite 402 Englewood, CO 80111

Re: International Paper_Facility Site Closure (Longview, Washington)

Dear Noelle:

This letter is to provide you with the follow up information on the October 1986 backfill, as discussed in our meeting of March 13, 1990, and as I outlined in our telephone conversation on March 16, 1990. As previously discussed, there were two areas which required backfilling. Area no. 1 is shown in the pictures numbered 1 through 4. This was a pond-like area, as shown in picture no. 1. The fill (sand dredge spoils) was dumped into the hole, which forced the water out (picture no. 2). As a result of the extreme wet conditions, only the top two to three feet of ground could be compacted (picture no. 3). Picture no. 4 is the final product. Area no. 1 is called the "First Pit" in LIR. Squier's letter Area no. 2 ("Second Pit") was a trench 1,000'± long by approximately 5' wide. Picture no. 5 shows a portion of the trench. Pictures no. 6 and no. 7 show cat scalping and pushing backfill into trench. Picture no. 8 shows roller compacting fill back into place.

As shown on the photographs, all work was done on October 6, 1986. I am also enclosing a copy of L.R. Squier's letter received in this office on November 5, 1986, and a copy of L.R. Squier's compaction test curve. Lakeside Industries, a local construction contractor, did the backfilling work.

If you have any additional questions, please call me at 206/425-0991.

Sincerely,

GIBBS & OLSON, INC.

Enclosures JD/sv File: 375.13

1465 17TH AVENUE, SUITE 300 • P.C. BOX 400 • LONGVIEW, WA SE632 • (206) 425-0391



L. R. SQUIER ASSOCIATES INC.

geotechnical consultants



4255 oak ridge road p.o. box 1317 lake oswego, oregon 97034 tel. (503) 635-4419

RECEIVED

NOV 0 5 1986

Gibbs & Olson, Inc.

November 4, 1986

Gibbs & Olson, Inc. 1405 17th Avenue, Suite 300 P.O. Box 400 Longview, Washington 98632

Attn: Mr. Neil Alongi

Re: Compaction Observations, International Paper Company Landfill Closure, Longview, Wahington

Dear Neil:

The closure of two trenches at the International Paper Company site in Longview, Washington, was observed by a geotechnical engineer on October 6, 1986. The first pit that was filled varied in depth from less than 1 foot to over 8 feet, and was partially filled to within 2 to 3 feet of the surface upon arrival of our representative at the site. The borrow material employed was a gray, fine to medium sand with gray silt and gravel which, when compacted in the laboratory, achieved a maximum dry density of 108 lbs./cu. ft. at an optimum moisture content of 15.5 percent. The material used in the field appeared to be somewhat cleaner than our laboratory sample and the compaction results indicated a lower optimum moisture content on the order of 6 to 10 percent.

In the first pit, three nuclear density tests were performed on the compacted sand fill at a depth of approximately one foot to 2 feet below final grade. Dry densities of 95.5 to 108.1 percent of the material's maximum standard dry density at 6.6 to 8.7 percent moisture content were observed. These in-place density tests indicated that the contractor was meeting the performance compaction specification of at least 95 percent of standard Proctor density (ASTM D698).

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THE FIELD ENVILED HE NOTE IN ROLE INFERMATION ECONOMICS. ENVIRENTIAS A LO ALERADA A

The second pit filled was a long narrow trench, which was up to 5 feet deep, when carefully stripped of soil and vegetation. Nuclear density tests were performed after the placement of about two 6-inch lifts of fill. Densities ranged from 90 to 92 percent of the material's maximum standard dry density at moisture contents of 11.3 to 17.3 percent. More fill at water contents varying from 6 to 9 percent was then placed to the same depth in other portions of the trench, but nuclear density tests indicated that the contractor still could not meet the compaction specification with the vibratory roller he was employing. It was our opinion that the subgrade was probably too soft to achieve proper compaction with the vibratory roller. Therefore, the contractor tried static compaction with the roller, and several more nuclear density tests were performed indicating that the contractor could achieve a compaction of 95.1 to 96.6 percent of the material's maximum standard dry density at moisture contents varying from 5.8 to 7.1 percent. The remainder of the trench was then backfilled and compacted using the static roller, and the first portion was allowed to dry and further compactive effort applied to it to bring it up to specifications.

We thank you for the opportunity to provide services on this project. If you have any questions please do not hesitate to call.

> Very truly yours, L.R. Squier Associates, Inc.

y Gary K. Olson, P.E. Senior Project Manager

GKO/LRS/es

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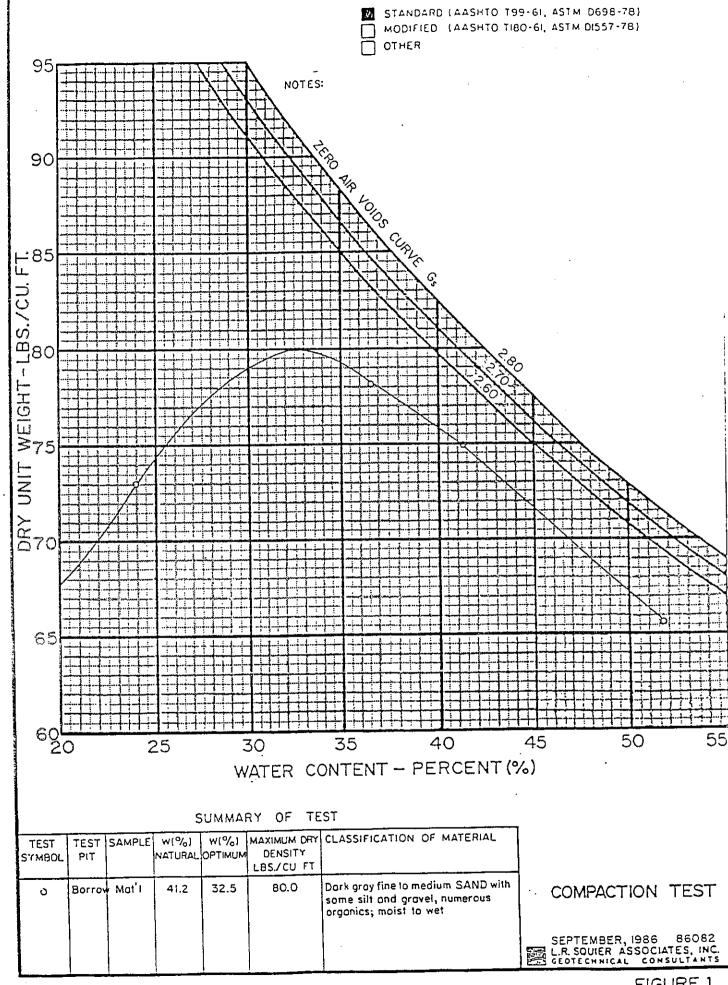


FIGURE 1

.



INTERNATIONAL PAPER COMPANY

4 OAKS PLAZA, 6600 LBJ FREEWAY, 75240. P.O. Box 809024. Dallas, texas 75380-9024

August 20, 1986

PHONE (214) 934-6000

Mr. Neil Alongi Gibbs & Olson, Inc. 1405 17th Avenue, Suite 300 Longview, Washington 98632

Dear Mr. Alongi:

As per our telephone conversation, enclosed is our Closure Plan.

Please concentrate on the backfill requirements as excavation was completed last year.

I will be in Longview on Tuesday, August 26. See you then.

Sincerely,

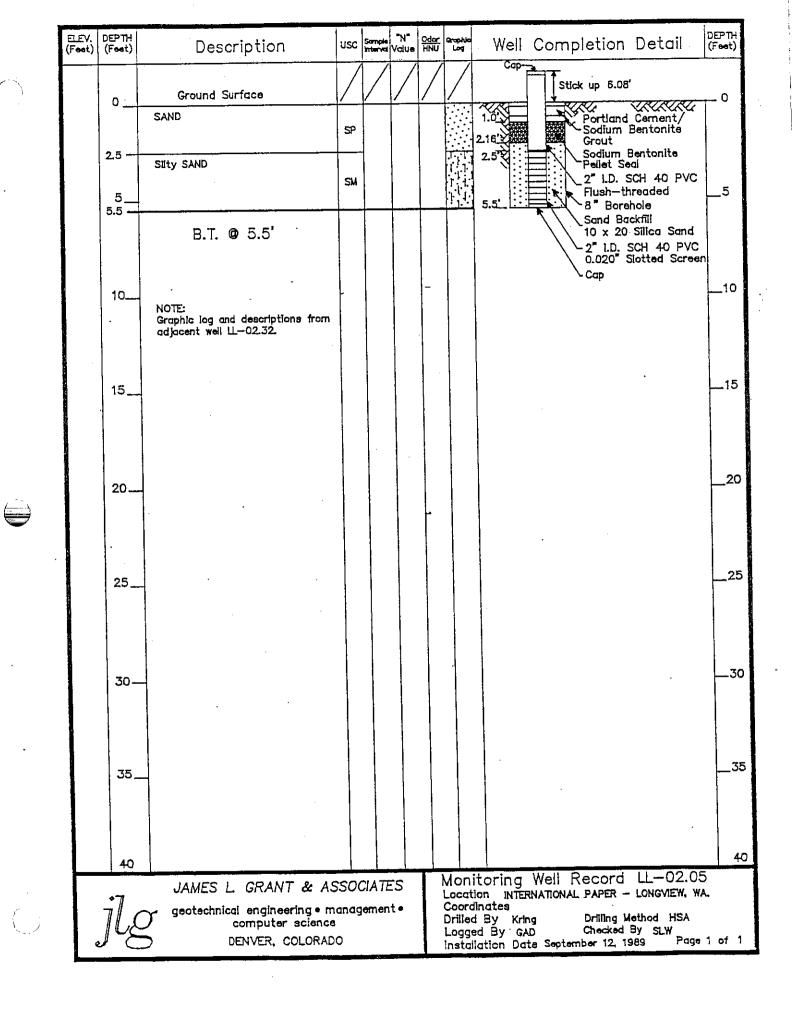
amer J. C. Amin

Enclosures

APPENDIX E

REPLACEMENT WELL RECORDS

810352: 5-11-90



ELEV. (Feet)	DEPTH (Feet)	Description	usc	Sample	"N" Value	<u>Odar</u> HNU	Graphia Log	Well Completion Derding (Fe
				1/				Cop-3
	° <u> </u>	Ground Surface SAND: Loose, grey, fine to mediu	um /	\bigvee	31	/	/	rent kine anerent
		subangular to subround	SP	\bigotimes	6	мо		
	2.5	Silty SAND: Loose, grey, fine, molat		Ŕ	1	so	1L . 1 - 1	Portland Cement/
	5		SM	Ŕ	8	so		Grout
	6.7	Silty CLAY: Firm, grey, moist,	a	K	23	wo		2" LD. SCH 40 PVC
	7.8	organic fragments SAND: Loose, grey, fine to medi	_∕──	$\overline{\mathbf{X}}$	5	wo		Flush-threaded
	9.0	_\molat ·			15	-wo		
	10.5 —	SAND: Loose, gray, fine to coard saturated, 1/4" and 1/8" slity of stringers	ay _		28	wo		8" Borehole
		SAND: Loose, grey, fine to coar subangular to subround, modera	so. tely		55	wo		
	15	sorted, saturated		$\mathbf{\nabla}$	35	NO		15.0'
	15_				32	WC		
					¥			Sodium Bentonite Pellet Sed
					17	w	, ,	20.0
	19.6 20	SAND: Loose, grey, fine sand to fine silty sand, saturated	5 SF	Ĺ				
					13	N		22.08
	23.0 23.9	SAND: Loose, grey, medium, soturated			41	s		Sand Backfill
	25_	SILT: grey, 1/4" thick SAND: Loose, gray, coarse, mo	/	F	K			
	27.0 —	ately sorted, saturated SAND: Loose, grey, medium						2° I.D. SCH 40 PVC 0.020° Slotted Screen
		grained, saturated		k	37	, s		
	30-			K	7			
	32.0 -			_		_		32.0 <u>8</u> Cap
		B.T. @ 32.0'			·			
	35_	-						
ļ	40						Mon	itoring Well Record LL-02.32
	_7	JAMES L. GRANT & . geotechnical engineering •					Locat	tion INTERNATIONAL PAPER - LONGVIEW, WA. dinates
	ILE	Computer scient	108	,			Drille	d By Kring Drilling Method HSA ed By GAD Checked By SLW
	ي م	J DENVER, COLOR					Insta	illation Date September 12, 1989 Page 1 (

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CLOSURE CERTIFICATION

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APPENDIX F

COVER INSTALLATION DOCUMENTATION

LONGVIEW, WA

810352: 5-11-90

ITEM 1

HDPE ENGINEERING SPECIFICATIONS

The following pages contain the High Density Polyethylene Engineering Specifications for the Longview facility. These specifications were taken from Appendix E of the "Closure Plan and Post-Closure Plan for the Treated Wood Products Plant, Longview, Washington", dated July 16, 1986 and revised October 3, 1986.

810352: 5-11-90

F-1

HIGH DENSITY POLYETHYLENE ENGINEERING SPECIFICATIONS

I. <u>General</u>

A. This document contains the material and installation specifications for use of high density polyethylene (HDP) cover systems.

II. <u>Site Preparation</u>

- A. Surfaces To Be Covered
 - 1. Material Earth, Clay, Sand
 - a. Free of debris or other hard objects sized as stated.

40-mil thick HDP - No broken stones or round stones within 3 inches or surfaces to be covered that will not pass through a 3/8 inch screen.

60-mil thick HDP - No broken stones or round stones within 3 inches of surfaces to be covered that will not pass through a 3/4 inch screen.

80-or 100-mil thick HDP - No broken stones or round stones within 3 inches of surfaces to be covered that will not pass through a 2 inch screen.

2. Compaction

a. 90% standard Proctor unless otherwise specified.

The HDP cover will bed itself better when the surfaces upon which it is placed are not compacted tightly because small stones which may be present in the top 3 inches of earth to be covered can be submerged into the ground more easily.

3. Anchor Trench

- a. The anchor trench shall be excavated prior to the start of cover installation.
 - 1. The length of anchor trench opened before liner placement shall be by the site engineer.
 - 2. The near side of the trench shall never be less than 2 feet from the top of the HDP cover.

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3. The depth of the trench shall be two feet minimum. Deeper trenches shall be required when combinations of these conditions exist.

Slopes - 1½:1 and steeper Length of steep slope - 25 or more feet

- b. The anchor trench shall be backfilled with granular material containing no stones larger than 2 inches in diameter or other hard or sharp objects. Frozen material shall not be used.
 - 1. The backfilling can be accomplished by plowing the earth back into the trench.
 - 2. The backfill material shall be compacted by making 4 passes or more with the rubber tires of a construction machine.
 - Moisture content is not considered critical to backfilling.
- 4. Moisture Content
 - a. No standing water, snow or excessive moisture shall be allowed.
- 5. Certification
 - a. The manufacturer's representative shall certify in writing that the surface on which the membrane is to be installed is acceptable. No installation of the liner shall commence until this certification is furnished to and accepted by the Owner or his Agent.

III. MATERIALS

- A. HDP shall conform to the requirement of material specification for HDP cover material.
 - 1. Quality
 - a. The sheet shall be high-density polyethylene nominally 40, 60, 80, or 100 mils thick, as specified by the Owner or his Agent, except for pieces terminating against concrete surfaces. The pieces tied to concrete surfaces shall be at least 60 mils thick. The HDP shall conform to the following requirements.

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PROPERTY	VALUE	TEST METHOD
Density	.938 to .952 gm/cm ⁿ	ASTM D 1505-68
Melt Flow Index	0.15 to 0.25 dm/10 min.	ASTM D 1238-79 Condition E
Tensile Strength At Yield	2900 psi (average)	ASTM D'638-80 Type IV Sample, 2"/min.
Tensile Strength At Break	4000 psi (average)	ASTM D 638-80 Type IV Sample, 2"/min.
Elongation at Yield	10% (minimum)	ASTM D 638-80 Type IV Sample, 2"/min.
Elongation at Break	Greater than 500%	ASTM D 638-80 Type IV Sample, 2"/min.
Low Temperature Brittleness	Above 118°C, 50% failure	ASTM D 746-79
Environmental Stress Crack Resistance	No failure or initiation of stress cracks when tested for greater than 1000 hours.	ASTM D 1693-70 Condition C

b. The sheet shall contain not less than 2 percent carbon black as defined in ASTM D 1248, Section 3.1.2.3., Class C. No other compound ingredients shall be added to HDP resin.

B. Sponge Rubber

 Type SC-42 medium, closed cell neoprene 2" x 1/4" strips; 1/2", 3/4", 1" diameter cords.

C. Neoprene Adhesive

1. Python No. 1062 contact adhesive.

D. Battens

1. #12 U.S. Gauge x 2" wide, low carbon hot rolled steel.

E. Anchor Bars

1. 3/16'' minimum x $1\frac{1}{2}''$ wide, type 304 stainless steel.

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- F. Fasteners
 - 1. 3/8" diameter size percussion driven alloy steel.
- G. Plastic Cement
 - 1. Wet-or dry-asphalt cement as manufactured by the Monsey Products Company.
- H. Plastic Sealant
 - 1. Silicone rubber, Type RTV-103, as manufactured by the General Electric Company.
- I. HDP Pipe
 - 1. Sizes 2" through 96", as required, Plastic Pipe Institute material designation PE 3408.

IV. INSTALLATION

- A. Drawings
 - 1. The manufacturer's representative shall submit for the Owner's approval field-erection drawings showing the liner panel layout with the proposed size and position of all factory extruded sheets and indicating the location of all field welds. Deviations from the liner panel drawing shall be explained to the Owner when requested.
- B. Sheet Placement
 - HDP sheets shall be placed as directed by the Manufacturer's Representative on surfaces which have been prepared to conform with the Owner's specifications and found acceptable for covering.
 - 2. The overlap between adjacent sheets shall be from 3 to $5\frac{1}{2}$ inches.
- C. Seaming Methods
 - 1. All field welds shall have a seam strength of a minimum of 100 percent of the tensile strength of the parent material.
 - 2. The weld area shall be free of all dirt, dust, moisture, or other foreign material.
 - a. The contact surface of the sheets shall be wiped with clean rags to remove any contamination.

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- 3. Self-propelled fusion welders shall be used for welding the lapped seams between HDP sheets. Each welder is to be comprised of a U-frame air blower/heater assembly with a variable speed drive assembly.
 - a. The welders are to use hot air to partially melt and then torsion spring pressure to clamp the semi-molten sheets together.
 - b. The welders shall have controls for regulating the amount and temperature of the air used to heat adjacent surfaces of sheets to be fused and the machine's rate of travel along a seam.
- 4. Hand-held fusion or extrusion welders shall be used for welding pipe-to-pipe, sheet-to-pipe, sheet-to-sheet, and making repairs as directed by the Manufacturer's Representative.
 - a. The fusion welders are to be comprised of a blower, heater, and hot air delivery nozzle.
 - b. The extrusion welders are to have a preheater air nozzle and deliver a ribbon of molten HDP.
- D. Authority to Proceed
 - 1. Welding operators shall commence only upon the direction of the Manufacturer's Representative, considering meteorological conditions and other factors.

V. QUALITY ASSURANCE

- A. Resin
 - 1. The resin to be used shall be specified by the manufacturer.
 - 2. Environmental stress crack resistance of the resin shall be greater than 1000 hours when tested in accordance with Specification ASTM D-1693.
 - 3. The resin manufacturer shall certify that the density; melt index; elongation at yield, - at break; tensile strength at yield, - at break comply with the product specification.
- B. Sheet Manufacture
 - 1. Documentation for the resin shall be checked against the material as received.
 - 2. If natural colored, the manufacturer shall add carbon black per Specification ASTM D-1248, Section 3.1.2.3, Class C.

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- 3. The manufacturer's quality control program shall include these inspections and tests:
 - a. Inspection for: appearance on both sides; manufacturing defects; thickness at 10 random locations across each sample strip.
 - 1. Thickness measured shall be within \pm 0.006 inches of the average thickness of the strip.
 - a. Acceptable sheet shall be no more than 0.004 inches less than the thickness specified.
 - b. The tests shall be conducted on at least two randomly selected samples from each day's production and the results reported to the Owner.
 - 1. Density per ASTM D 1505-68
 - 2. Melt index per ASTM D 1238-79
 - 3. Elongation at yield per ASTM D 638-80
 - 4. Elongation at break per ASTM D 638-80
 - 5. Tensile strength at yield per ASTM D 638-80
 - 6. Tensile strength at break per ASTM D 638-80
 - c. Percent carbon black in a randomly selected sample taken from the production run shall be determined per the procedure of specification ASTM.
 - d. A quality chart of each roll of sheet shall be prepared and a copy attached to the roll. Information plotted on the chart shall include the location and type of defect.
 - e. A label containing at least the following information shall be attached to each roll of sheet when shipped:

Serial Number Date of Manufacture Resin Type Resin Lot Number Roll Length Roll Length Roll Width Roll Thickness Gross Weight Net Weight Inspected By

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- C. Installation Quality Control
 - 1. Initial Inspection at Site
 - a. Rolls shall be inspected for physical damage during transport.
 - b. Documentation on label attached to each roll shall be inspected for completeness.
 - 2. Welding
 - a. Manufacturer's Representative shall review the procedures to be used for welding every day.
 - b. Two samples, approximately 15 inches square, shall be cut out of each day's work.
 - 1. The samples shall be randomly located, identified on the sheet layout drawing, serially numbered and dated.
 - a. All welds shall attain their full strength within six hours after they have been completed.
 - 2. One dog bone shall be cut out of each sample and subjected to a pull test at the site.
 - a. The fixture used for making pull tests in the field shall be manually operated. It shall be strong enough to permit the operator to determine that the weld is at least as strong as either sheet.
 - c. Inspection
 - 1. Each seam shall be inspected visually after the welding operations have been completed by the Owner's Representative.
 - a. Suspected discrepant areas shall be identified with a suitable contrasting marker.
 - 2. The entire length of each weld seam adjacent to the exposed edge of the top sheet shall be scanned with a transducer connected to ultrasonic thickness measuring instrumentation.
 - a. Conduct the ultrasonic test on each machine made weld, after the instrumentation has been properly cabilbrated.

08EV0059.WKR

- Discrepant areas located with the ultrasonic instrumentation shall be classified as tunnels or holidays. Tunnels shall be defined as imperfect welds which extend completely across the fusion joint. Holidays, or suspected holidays, shall not be repaired -- if the across-fusedjoint dimension is equal to or less than onehalf of its width.
- 2. The installation inspector shall mark, log and identify each type of repair to be made at a discrepant area.
- 3. The Owner shall have the right to reject any field made seam for cause. Cause shall be defined to include poor workmanship, defective welds, insufficient overlap.
 - a. Any field seam rejected for such causes shall be repaired or replaced to the satisfaction of the Owner's Site Representative.
- 3. Reports and Certification
 - a. The Manufacturer's Representative shall compile a test report.
 - b. The Manufacturer's Representative shall certify that: The resin specified was furnished, the extruded sheet was manufactured to conform with contractural requirements; the installation has been completed to the satisfaction of the Owner or his Agent.

08EV0059.WKR

ITEM 2

Gundle Subgrade Certification Letter

810352: 5-11-90

1

F-2

Certification Of The HDP Liner Installation At The International Paper Facility In Longview, Washington

I, $\underline{A_{Vir}} + \underline{A_{ErreTh}}$, certify that the surface on which the membrane was installed was acceptable as defined by the specifications for the liner installation which are attached.

Šignature

Gundle Lining Systems, Inc.

12.6.89 Date

I, <u>Mained Herreth</u>, certify that the resin specified was furnished. The extruded sheet was manufactured to conform with contractural requirements, and the installation has been completed according to the specification. The test report is attached to this document.

Signature

Gundle Lining Systems, Inc.

12.6.89 Date

ITEM 3

Soil Density Test Results

810352: 5-11-90

F-3



Professional Service Industries, Inc. Pittsburgh Testing Laboratory Division

OCT 2 3 1989

N1.1-1

Gibbs & Olson, In

GIBBS & OLSON, INC. P.O. Box 400 Longview, Washington 98632 Project: International Paper Waste Impoundment

Attention: John Duncan

Date: October 5, 1989

Report No.: 702-90165-002

TROXLER DENSITY TESTS ASTM D 2922 & D 3017

Tests taken on 10-05-89

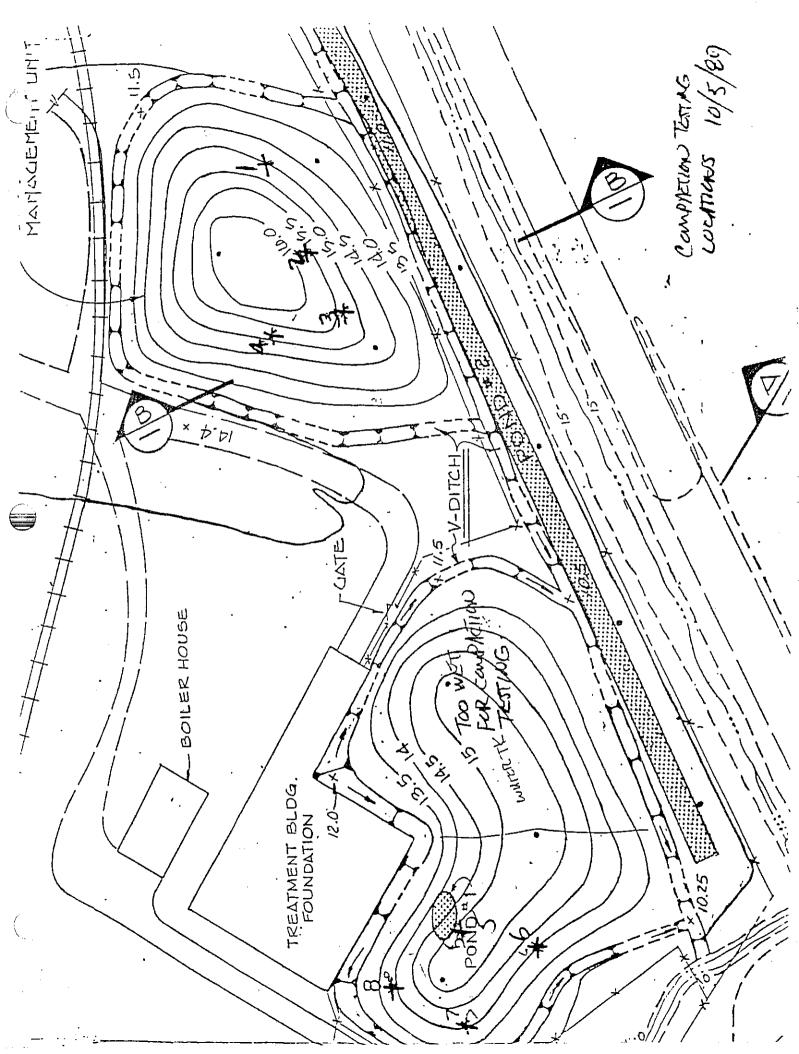
Maximum Dry Density @ Optimum Moisture Content = 107.0 lbs/cu.ft. Optimum Moisture Content = 16.0 %

Density Location	Moisture <u>Content</u>	Density <u>Lbs/cu.ft.</u>	AASHTO T 99 <u>% Compaction</u>
Locations were noted on map by Ron Hitt: 1. 2. 3. 4. 5. 6. 7. 8.	10.8 8.1 9.3 9.0 6.5 8.5 5.6 7.2	104.3 101.9 99.1 101.2 106.5 99.5 100.0 99.2	97.5 95.2 92.3 94.6 99.5 92.9 93.4 92.7
v.	• •		

Inspector: T. Allison

Respectfully submitted, PROFESSIONAL SERVICE INDUSTRIES

12812 N.E. Marx Street



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Professional Service Industries, Inc. Pittsburgh Testing Laboratory Division Gibbs & Olson, Inc.

<u>OCT 0 6 1989</u>

MOISTURE DENSITY	Y RELATIONSH	IIP TEST	REPORT
Piojaci	Report Date 1	18pori 140. 001	702-90165
•	09-22-89		Lab 110.
		01 of 01	89451
	375-13		
Client	Source of Sample		
GIBBS & OLSON, INC.			
PO Box 400			
Longview, Washington 98632	Soll Description		
Attention: John Duncan A	Sand		
The Method	Sample Submitted By		Data Bampia Received
AASHTO T 99, Method A	Client		09-22-89 Optimum Molsture (%)
Treparation Procedure Type of Hammer Manual Dry Diameter	Max Lat Dry Dansily (Iba/eu 107.0	0 M	16.0
Moiet Diry DManual & Mechanical	107.0	1	
		19 CENT OF DNY WI	$ \frac{1}{10} = \frac{1}{10}$
12512 N E. Marx Street	Portland, OR 97230	······································	Phone: 503 254 5413

GIBBS & OLSON, INC.

ENGINEERS PLANNERS SURVEYORS

May 22, 1990

James L. Grant & Associates, Inc. 8301 E. Prentice Avenue Suite 402 Englewood, CO 80111

ATTENTION: Noelle Sears

REFERENCE: International Paper Facility (Longview, Washington) Drainage Sand Specifications

3 - C.

Dear Noelle:

Thank you for your call on May 22, 1990, requesting additional information about the sand fill material used on top of the HDP liner at the International Paper facility in Longview, Washington.

The material used was a river washed sand from a local dredge site. The sand material was tested (copy enclosed) and passed the State of Washington Standard Specifications (copy enclosed) for a sand drainage blanket. The State gradations differ slightly from the test gradations, but review of the actual test numbers shows compliance with the State's requirements.

This should help clarify any questions about what an excellent drainage material this sand actually is. If you have additional questions or concerns, please call me at 206/425-0991.

Sincerely,

GIBBS & OLSON, INC.

By John Duncan, L.S., P.E.

Enclosures

JD/sv File: 375.13

ACUCIVED

<u>OCT 0 6 1989</u>



Professional Service Industries, Inc. Pittsburgh Testing Laboratory Division Gibbs & Olson, Inc.

MOISTURE DENS	- <u>-</u>	(RELATIONS	HIP TEST	REI	PORT
MUISTURE DEM3	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Napori Uala	Nepoit Ho.		
Project		09-22-89	001		702-90165
		Clioni Order No.	<u>ה</u> מיו		Lau Ilo.
	i	375-13	01 ⁰¹ 01		89451
Succession and the second s		Source of Sample		•	
GIBBS & OLSON, INC.		The second s	$\sim 5^{-1} m$		•• •
PO Box 400		1		•	·**.
Longview, Washington 98632					•
Attention: John Duncan;		Soil Description Sand			
	<u> </u>	Bampia Submitted By	;	DALLER	Ample Received
AASHTO T 99, Method A	•	Client		Oothnu	09-22-89
Preparation Procedure Typa of Hammer	uical	Minz Lab D., Dansiny (162/ 107.0		L	16.0
Motel D Dry D Manuel & Mactini		_1107.0			
					$ \frac{1}{1} = 1$
12512 N.E. Marx Street		Portland, OR 97230	•	Pho	one: 503-204-64-6

1988 Standard Specifications

for Road, Bridge, and Municipal Construction

Washington State Department of Transportation

American Public Works Association Washington State Chapter

AGGREGATES

AGGRE

Title

Sampling

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Stabilome:

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9-03.13(1) Sand Drainage Blanket

9-03

Aggregate for the cand drainage blanket shall consist of granular material, free from wood, bark, or other extraneous material and shall meet the following requirements for grading:

<u>Sieve Size</u> 2-1/2" square	Percent Passing 90-100
1/4" square	30-100
The portion passing 1/4" shall meet the following requirements	:
for grading:	
U.S. No. 10	50-100
U.S. No. 50	0-30
U.S. No. 100	• 0-7.0
U.S. No. 200	0-3.0

All percentages are by weight.

That portion of backfill for sand drains and sand drainage blanket retained on a 1/4 inch square sieve shall contain not more than 0.05 percent by weight of wood waste.

9-03.14 Gravel Borrow

Aggregate for gravel borrow shall consist of granular material, either naturally occurring or processed, and shall meet the following requirements for grading and quality:

	1 C	
Sieve Size	Percent	Passing
1-1/4" square	100	*
1/4" square	25	min.
U.S. No. 40	40	max.
U.S. No. 200	7.0	max.
Sand Equivalent	50	min.

All percentages are by weight.

*If requested by the Contractor, the sieve size may be increased with the approval of the Engineer if it is determined that larger size aggregate will be satisfactory for the specified backfilling or embankment construction.

9-03.15 Test Methods for Aggregates

The properties enumerated in these Specifications shall be determined in accordance with the following methods of test: ITEM 4

Gundle Laboratory Results

810352: 5-11-90

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F-4



Quality Assurance Certificate

MATERIAL :		09/30/1989 INTERNATIONAL PAPER
BATCH # :	PROJECT NUMBER :	8049
ROLL # :	LOCATION :	Longview Wa

	TEST PARAMETER	TYPICAL SPECIFICATIONS	TEST RESULTS	ASTM TEST METHOD
	Thickness (mils)	40 +/- 10%	40	D 1593
	Carbon Black (%)	2-3	2.7	D 1603
	Melt Index (g/10 min)	.3 max	.10	D 1238 E
	Density (g/cm3)	.94	.949	D 1505 A
	Tensile Properties: T.S. Yield (ppi) T.S. Break (ppi) Elong. Yield (%) Elong. Break (%)	86 144 10 500	111 217 14 846	D638 Type IV 2 ipm
ŧ	Tear Resistance (lbs)	27	35	D 1004, Die C
	Puncture Resistance (lbs)	47	80	FTMS No. 101C Method 2065

CERTIFIED BY:

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Rodney Crenwelge 7 Lab Manager)

Gundle

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Quality Control Certificate

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MATERIAL : HDPE 060 MIL BATCH # : 093089 ROLL # : 06001758	PROJECT	NUMBER : 8049	NATIONAL PAPER
TEST PARAMETER	TYPICAL SPECIFICATIONS	TEST RESULTS	ASTM TEST METHOD
Thickness (mils)	60 +/- 10%	59	D 1593
Carbon Black (%)	2.0- 3.0	2.3	D 1603
Melt Index (g/10 min)	.3 max	.13	D 1238 E
Density (g/cm3)	.94	.948	D 1505 A
Tensile Properties: T.S. Yield (ppi) T.S. Break (ppi) Elong. Yield (%) Elong. Break (%)	126 216 10 500	154 307 16 903	D638 Type IV 2 ipm
Tear Resistance (lbs)	41	48	D 1004, Die C
Puncture Resistance (1bs)	72	100	FTMS No. 101C Method 2065

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CERTIFIED BY:

Rodney Crenwelge Lab Manager

Gundle

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Quality Control Certificate

MATERIAL : HDPE 040 MIL BATCH # : 100289 ROLL # : 02001755	PROJECT PROJECT	TE : 10/02 NAME : INTER NUMBER : 8049 I : LONGV	NATIONAL PAPER
TEST PARAMETER	TYPICAL SPECIFICATIONS	TEST RESULTS	ASTM TEST METHOD
Thickness (mils)	40 +/- 10%	39	D 1593
Carbon Black (%)	2.0- 3.0	2.5	D 1603
Melt Index (g/10 min)	.3 max	.10	D 1238 E
Density (g/cm3)	.94	.947	D 1505 A
Tensile Properties: T.S. Yield (ppi) T.S. Break (ppi) Elong. Yield (%) Elong. Break (%)	86 144 10 500	109 199 15 832	D638 Type IV 2 ipm
Tear Resistance (lbs)	27	33	D 1004, Die C
Puncture Resistance (lbs)	47	85	FTMS No. 101C Method 2065

CERTIFIED BY:

Rodney Crenwelge Lab Manager _)



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Quality Control Certificate

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MATERIAL : HDPE 040 MIL BATCH # : 100289 ROLL # : 02001753	PROJECT	NUMBER : 8049	NATIONAL PAPER
TEST PARAMETER	TYPICAL SPECIFICATIONS	TEST RESULTS	ASTM TEST METHOD
Thickness (mils)	40 +/- 10%	40	D 1593
Carbon Black (%)	2.0- 3.0	2.5	D 1603
Melt Index (g/10 min)	.3 max	.10	D 1238 E
Density (g/cm3)	.94	.947	D 1505 A
Tensile Properties: T.S. Yield (ppi) T.S. Break (ppi) Elong. Yield (%) Elong. Break (%)	86 144 10 500	103 199 15 869	D638 Type IV 2 ipm
Tear Resistance (lbs)	27	34	D 1004, Die C
Puncture Resistance (lbs)	47	83	FTMS No. 101C Method 2065

CERTIFIED BY:

MIL

Rodney Crenwelge Lab Manager



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Quality Control Certificate

BATCH #	: HDPE 040 MIL : 100189 : 02001722	MANF. DATE PROJECT NAME PROJECT NUMBER LOCATION	: INTERNATIONAL PAPER : 8049
			•

TEST PARAMETER	TYPICAL SPECIFICATIONS	TEST RESULTS	ASTM TEST METHOD
Thickness (mils)	40 +/- 10%	43	D 1593
Carbon Black (%)	2.0- 3.0	2.4	D 1603
Melt Index (g/10 min)	.3 max	.11	D 1238 E
Density (g/cm3)	.94	.946	D 1505 A
Tensile Properties: T.S. Yield (ppi) T.S. Break (ppi) Elong. Yield (%) Elong. Break (%)	86 144 10 500	107 230 15 883	D638 Type IV 2 ipm
Tear Resistance (lbs)	27	34	D 1004, Die C
Puncture Resistance (lbs)	47	78	FTMS No. 101C Method 2065

CERTIFIED BY: 2

Rodney Crenwelge Lab Manager

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Quality Control Certificate

MATERIAL : HDPE 040 MIL BATCH # : 093089 ROLL # : 02001717	MANF. DATE PROJECT NAME PROJECT NUMBER LOCATION	: INTERNATIONAL PAPER
	TYPICAL	

TEST PARAMETER	SPECIFICATIONS	TEST RESULTS	ASTM TEST METHOD
Thickness (mils)	40 +/- 10%	40	D 1593
Carbon Black (%)	2.0- 3.0	2.7	D 1603
Melt Index (g/10 min)	.3 max	.10	D 1238 E
Density (g/cm3)	.94	.9 49	D 1505 A
Tensile Properties: T.S. Yield (ppi) T.S. Break (ppi) Elong. Yield (%) Elong. Break (%)	86 144 10 500	111 217 14 846	D638 Type IV 2 ipm
Tear Resistance (lbs)	27	35	D 1004, Die C
Puncture Resistance (lbs)	47	80	FTMS No. 101C Method 2065

CERTIFIED BY:

Rodney Crenwelge Lab Manager

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Quality Assurance Certificate

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MATERIAL : HDPE 040 MIL BATCH # : 100289 ROLL # : 02001754	PROJECT PROJECT	TE : 10/02 NAME : INTEF NUMBER : 8049 I : LONGV	NATIONAL PAPER
TEST PARAMETER	TYPICAL SPECIFICATIONS	TEST RESULTS	ASTM TEST METHOD
Thickness (mils)	40 +/- 10%	40	D 1593
Carbon Black (%)	2- 3	2.5	D 1603
Melt Index (g/10 min)	.3 max	.10	D 1238 E
Density (g/cm3)	.94	.947	D 1505 A
Tensile Properties: T.S. Yield (ppi) T.S. Break (ppi) Elong. Yield (%) Elong. Break (%)	86 144 10 500	103 199 15 869	
Tear Resistance (lbs)	27	34	D 1004, Die C
Puncture Resistance (lbs)	47	83	FTMS No. 101C Method 2065

CERTIFIED BY: 1

Rodney Crenwelge Lab Manager



Quality Assurance Certificate

				10/02/1989
MATERIAL	: HDPE 040 MIL	PROJECT NAME	:	INTERNATIONAL PAPER
ВАТСН #	: 100289	PROJECT NUMBER	:	8049
ROLL #	: 02001750	LOCATION	:	LONGVIEW WA

)

TYPICAL TEST PARAMETER SPECIFICATIONS		TEST RESULTS	ASTM TEST METHOD		
Thickness (mils)	40 +/- 10%	38	D 1593		
Carbon Black (%)	2- 3	2.5	D 1603		
Melt Index (g/10 min)	.3 max	.10	D 1238 E		
Density (g/cm3)	.94	.947	D 1505 A		
Tensile Properties: T.S. Yield (ppi) T.S. Break (ppi) Elong. Yield (%) Elong. Break (%)	86 144 10 500	104 208 .15 865	D638 Type IV 2 ipm		
Tear Resistance (lbs)	27	33	D 1004, Die C		
Puncture Resistance (lbs)	47	82	FTMS No. 101C Method 2065		

CERTIFIED BY:

Rodney Crenwelge Lab Manager

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ITEM 5

Phillips 66 Laboratory Results

810352: 5-11-90

F-5



PHILLIPS 66 COMPANY

FLADENA TEXAS TTELATER BOX TR2 FHONE TL2 275-2752 July 28, 1989

JHV# 7083-89

FAX: 713-675-6010

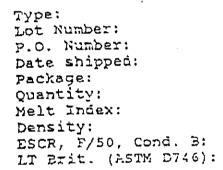
PHILLIFS PLASTICS REEKS House Cremics Complet

Gundle Lining Systems Inc. 1340 East Richey Road Houston, TX 77073

ATTN: Steve Severson / Ray McCurdy

This letter will certify that the Marlex* resin shown below, as supplied by Phillips 66 Company, conforms to our manufacturing specification.

HHM TR-400



0394646 123432 07/25/89 PSPX 9131 148150 1bs. .13 gm/10 min. .937 gm/cc >1000 hrs ** <-160 degrees C **

7. H. Vaden Quality Assurance Manager PHILLIPS 66 COMPANY

JHV: PSN: ad

* Reg. U.S. Pat. Off. ** Nominal Value

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PHILLIPS 66 COMPANY

PLSADENA, TEXAS 17501-0752 BOX 792 PHONE: 712 475-3655

PHILLIPS PLASTICS RESINS

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July 28, 1989

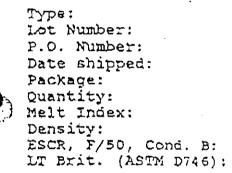
JHV# 7086-89

FAX: 713-875-6010

Gundle Lining Systems Inc. 1340 East Richey Road' Houston, TX 77073

ATTN: Steve Severson / Ray McCurdy

This letter will certify that the Marlex* resin shown below, as supplied by Phillips 66 Company, conforms to our manufacturing specification.



HHM TR-400 0394605 SPG 07/25/89 PSPX 9113 164500 lbs. .16 gm/10 min. .939 gm/cc >1000 hrs ** <-180 degrees C **

E. H. Vader

Quality Assurance Manager PHILLIPS 66 COMPANY

JHV: PSN: ad

* Reg. U.S. Pat. Off. ** Nominal Value

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PHILLIPS 66 COMPANY PREADENT TEALS TISCUTTE

BOX 752 P-DNE 715 475-5666

July 28, 1989

JHV# 7084-89

FAX: -713-875-6010

Gundle Lining Systems Inc. 1340 East Richey Road Houston, TX 77073

ATTN: Steve Severson / Ray McCurdy

This letter will certify that the Karlex* resin shown below, as supplied by Phillips 66 Company, conforms to our manufacturing specification.

HHM TR-400



1 :

Type: Lot Number: P.O. Number: Date shipped: Package: Quantity: Melt Index: Density: ESCR, F/50, Cond. E: LT Brit. (ASTM D746):

0394628 123412 07/25/89 PSPX 6634 153050 lbs. .13 gm/10 min. .938 gm/cc >1000 hrs ** <-130 decrees C **

Vadeń

Quality Assurance Manager PHILLIPS 66 COMPANY

JHV: PSN: ad

* Reg. U.S. Pat. Off. ** Nominal Value



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PHILLIPS 66 COMPANY

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August 31, 1989

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JHV‡ 8173-S9

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FAX: 713-875-6010

Gundle Lining Systems Inc. 1340 East Richey Road Houston, TX 77073

ATTN: Steve Severson / Ray McCurdy

This letter will certify that the Marlex* resin shown below, as supplied by Phillips 66 Company, conforms to our manufacturing specification.

HHM TR-400

Type: Lot Number: P.O. Number: Date shipped: Package: Quantity: Melt Index: Density: ESCR, F/50, Cond. B: LT Brit. (ASTM D746);

0395238 124229 09/01/89 PSPX 6304 177450 lbs. .16 gm/10 min. .938 gm/cc >1000 hrs ** <-180 degrees C **

J. H. Vaden

Quality Assurance Manager PHILLIPS 66 COMPANY

JHV: PSN: ad

* Reg. U.S. Pat. Off. ** Nominal Value

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 PHILLIPS 66 COMPANY

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Gundle Lining Systems Inc. 1340 East Richey Road Houston, TX 77073

ATTN: Stove Severson / Ray McCardy .

This letter will certify that the Marlex* resin shown below, The Supplied by Phillips 56 Company, conforms to currmenufed when the turing specification.



Type: Lot Number: P.O. Number: Date shipped: Package: Quantity: Melt Index: Density: ESCR, F/30, Cond. B: IT Brit. (ASTM D746):

HHM TR-400 0394612 \$23412 07/25/89 P5PX 6217 154880 lbs. .13 gm/10 min. .938 gm/cc >1000 hrs ** <-180 degrees C **

Quality Assurance Manager PHILLIPS 66 COMPANY

JHV: PSN: 26

* Reg. U.S. Pat, Off. ** Nominal Value



PHILLIPS 66 COMPANY

PASADENA, TEXAS 77501-0792 BOX 752 PHONE: 713 475-3666

April 10, 1989

JHV# 3320-89

PHILLIPS PLASTICS RESINS Housion Chamical Complex

FAX: 713-875-6010

TO:

Gundle Lining Systems Inc. 1340 East Richey Road Houston, TX 77073

ATTN: Mr. Steve Severson

This letter will certify that the Marlex* resin shown below, as supplied by Phillips 66 Company, conforms to our manufacturing specification.

Typa: HHM TR-400 Lot Number: P.O. Number: Date Shipped: Package: Quantity: Melt Index: Density: ESCR, F/50: Low Temp. Brittleness: <-180 degrees F ** (ASTM D746)

0392042 120644 04/07/89 PSPX 5999 186950 lbs. .12 gm/10 min. .938 gm/cc >1000 hrs **

Very truly yours,

PHILLIPS 66 COMPANY

aden

Quality Assurance Manager

* Reg. U.S. Pat. Off ** Nominal Value

PSN: JHV: ad

CC: QA-File-RC D. E. Morgan

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PHILLIPS 66 COMPANY

PASADENA, TEXAS 77501-0792 BOX 752 PHONE: 713 475-3006

August 28, 1989

JHV# 7975-89

FAX: 713-875-6010

PHILLIPS PLASTICS AESING HOUSION GIVERNEST COMPANY

Gundle Lining Systems Inc. 1340 East Richey Road Houston, TX 77073

ATTN: Steve Severson / Ray McCurdy

This letter will certify that the Marlex* resin shown below, as supplied by Phillips 66 Company, conforms to our manufacturing specification.

Type: Lot Number: P.O. Number: Date shipped: Package: Quantity: Melt Index: Density: ESCR, F/50, Cond. B: LT Brit. (ASTM D746):

HHM TR-400 0393741 123412 08/15/89 PSPX 5039 180000 lbs. 0.150 gm/10 min. 0.938 gm/cc >1000 hrs ** <-180 degrees C **

J. H. Vaden/ R.C.L

J. H. Vaden Quality Assurance Manager PHILLIPS 66 COMPANY

JHV: PSN: ad

* Reg. U.S. Pat. Off. ** Nominal Value

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PHILLIPS 66 COMPANY

PASADENA, TEXAS 77501-0792 20X 782 PHONE: 713 +75-3466

PHILLIPS PLASTICS RESILS Housion Charlical Compar August 28, 1989

JHV# 7997-89

FAX: 713-875-6010

Cundle Lining Systems Inc. 1340 East Richey Road Houston, TX 77073

ATTN: Steve Severson / Ray McCurdy

This letter will certify that the Marlex* resin shown below, as supplied by Phillips 66 Company, conforms to our manufacturing specification.

HHM TR-400

Type: Lot Number: P.O. Number: (ie shipped: ckage: Jantity: Meit Index: Density: ESCR, F/50, Cond. B: LT Brit. (ASTM D746):

0394795 123412 08/25/89 **PSPX 5968** 150850 lbs. .14 gm/10 min. .938 gm/cc >1000 hrs ** <-180 degrees C **

Quality Assurance Manager PHILLIPS 66 COMPANY

JHV:PSN:bd

J. H. Vaden J. H. Vaden

* Reg. U.S. Pat. Off. ** Nominal Value

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PHILLIPS 6	5 COMPANY
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August	31,	1989
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JHV# 8173-89

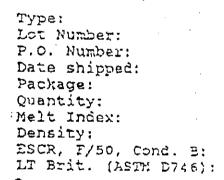
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FAX: 713-875-6010

Gundle Lining Systems Inc. 1340 East Richey Road Houston, TX 77073

ATTN: Steve Severson / Ray McCurdy

This letter will certify that the Narlex* resin shown below, as supplied by Phillips (6 Company, conforms to our manufacturing specification.



HEM TR-400 0395238 124229 09/01/89 PSPX 6304 177450 lbs. .16 gm/10 min. .938 gm/cc >1000 hrs --<-180 degrees C #*

J. H. Vaden

Quality Assurance Manager PHILLIPS 66 COMPANY

JHV: PSN; ad

* Reg. U.S. Pat. Off. ** Nominal Value

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PRHITP PHILLIPS 66 COMPANY RASADENA TEKAS TORONTER August 31, 1989 EDX THE RHOME ON AND PARE FAULTES FLAST DE RESINS JHV: 8172-89 House Connuts Contres

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Gundle Lining Systems Inc. 1340 East Richey Road Houston, TX 77073

ATTN: Steve Severson / Ray McCurdy

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This letter will certify that the Marles* resin shown below. as supplied by Phillips 66 Company, conforms to our manufacturing specification.

Type: n Lot Number: P.O. Number: Date shipped: -Package: Quantity: 🗟 Melt Index: Density: ESCR, F/50, Cond. B: LT Brit. (ASTM D746):

HEM TR-400 0395214 124229 -09/01/89 PSPX 5788 173550 lbs. .16 gm/10 min. .936 gm/cc >1000 hrs ** <-180 degrees C **

FAX: 713-875-6010

J. H. Vaden

Quality Assurance Manager PHILLIPS 66 COMPANY

JHV: PSN: ad

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* Reg. U.S. Pat. Off. ** Nominal Value

CLOSURE CERTIFICATION

ITEM 6

Tensile Strength Discussion

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810352: 5-11-90

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GIBBS & OLSON, INC.

ENGINEERS PLANNERS SURVEYORS

March 12, 1990

James L. Grant & Associates, Inc 8301 East Prentice Avenue, Suite 402 Englewood, Colorado 80111

Attention: Noelle Sears

Reference: International Paper Facility (Longview, WA) Tensile Strength Specifications

Dear Noelle:

1.

3.

Thank you for your letter of March 9; 1990, outlining the conversion of Gundle's tensile strength (T.S.) yield from units of pounds per inch (ppi) to pounds per square inch. As mentioned, I was unable to convert ppi to psi because I had no data on the roll thickness.

Review of the T.S. yield strength you supplied shows that it is 8% below specification. The lower T.S. yield is acceptable for the following reasons:

The original specifications are a minimum of 5 years old, and were not updated to current 1990 industry standards prior to the lining installation. Minor alterations in the Specifications have occurred as a result of updating the closure document to 1990 industry standards. The lower T.S. yield falls into this category.

As mentioned in your letter, all other Gundle testing certification met or exceeded specifications. The two critical factors to keeping water out, are "at break" and "elongation at break". These two test values exceed the specifications.

The linear is covered with 24 inches of soil and fill material with surface grass. The area is surrounded by fence with two locked gates limiting the access to only maintenance equipment, such as lawn mowing, fertilizing application, etc. This will ensure a load so small that the linear will experience no load exceeding a few hundred psi in the worst case. This gives a factor of safety on the order of 10.

1405 17TH AVENUE, SUITE 300 • P.O. BOX 400 • LONGVIEW, WA 98632 • (206) 425-0991

Page 2 James L. Grant & Associates, Inc. March 12, 1990

I have outlined the three reasons the T.S. at yield of 2666 psi (average) is both reasonable and acceptable to this application for the International Paper Longview, Washington facility.

If you have any additional concerns, questions or observation about this issue, please call.

Sincerely,

GIBBS & OLSON, INC.

By John A. Duncan, P.E., L.S.

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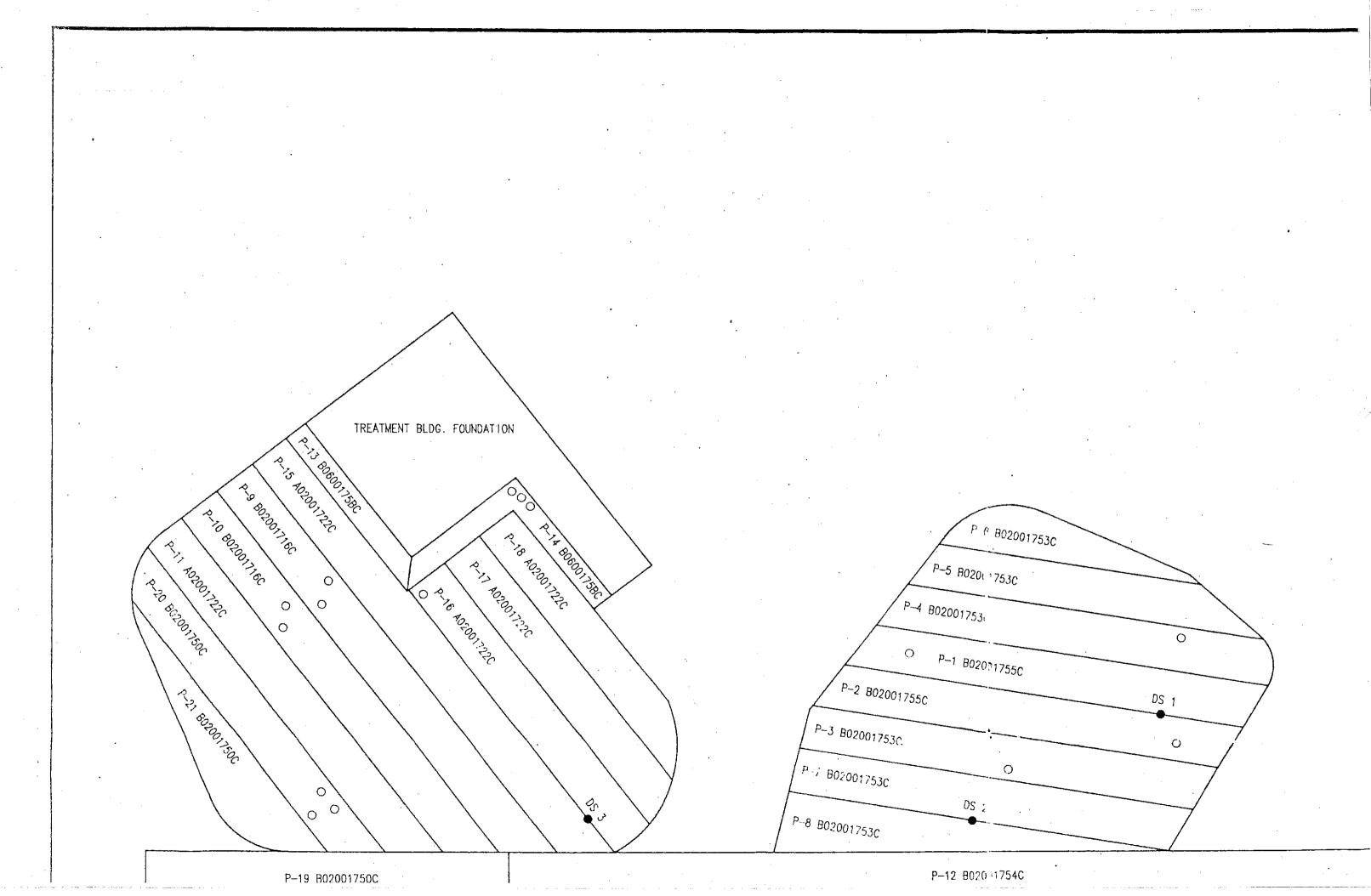
ITEM 7

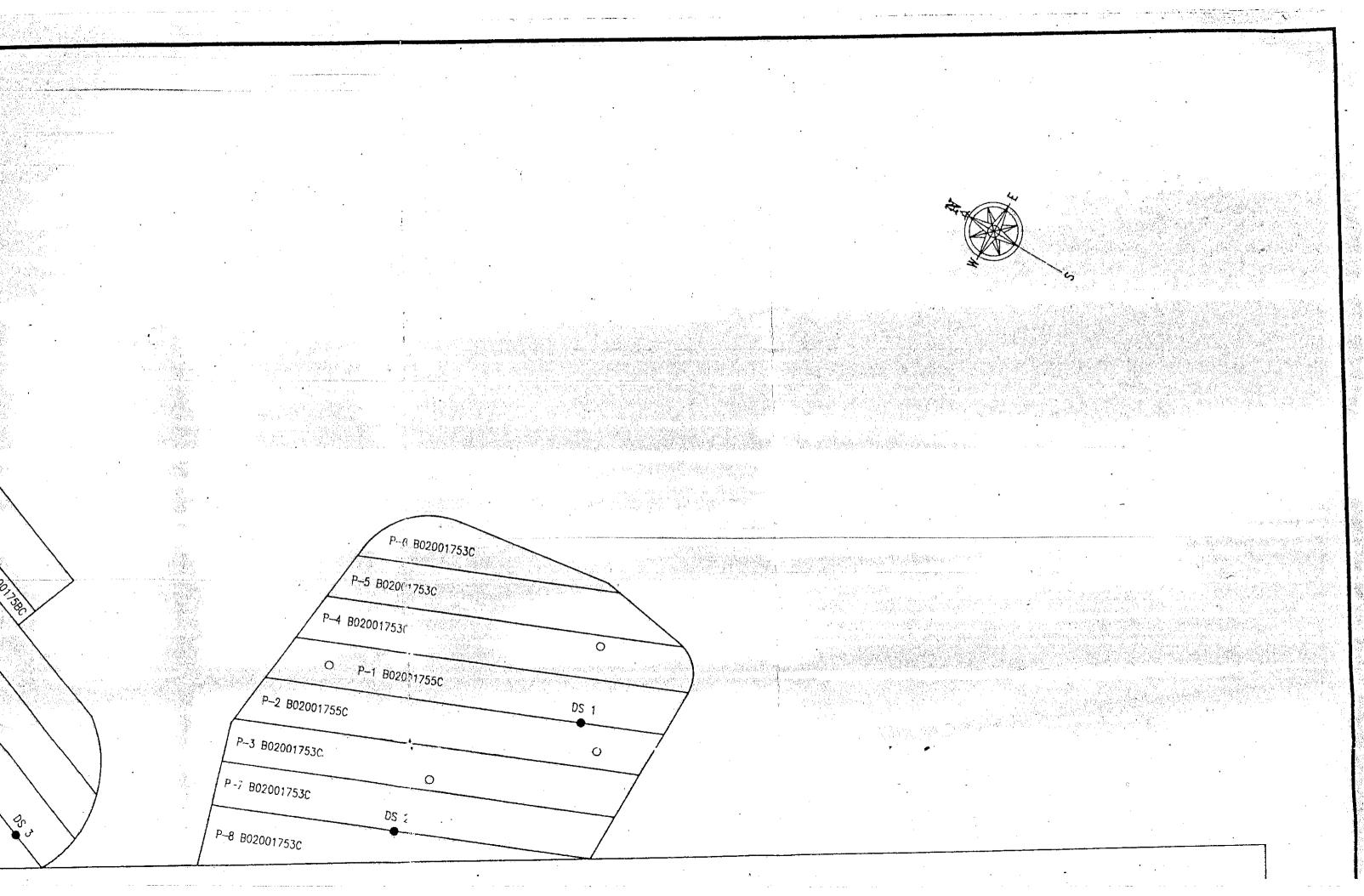
Gundle As-Built Drawing

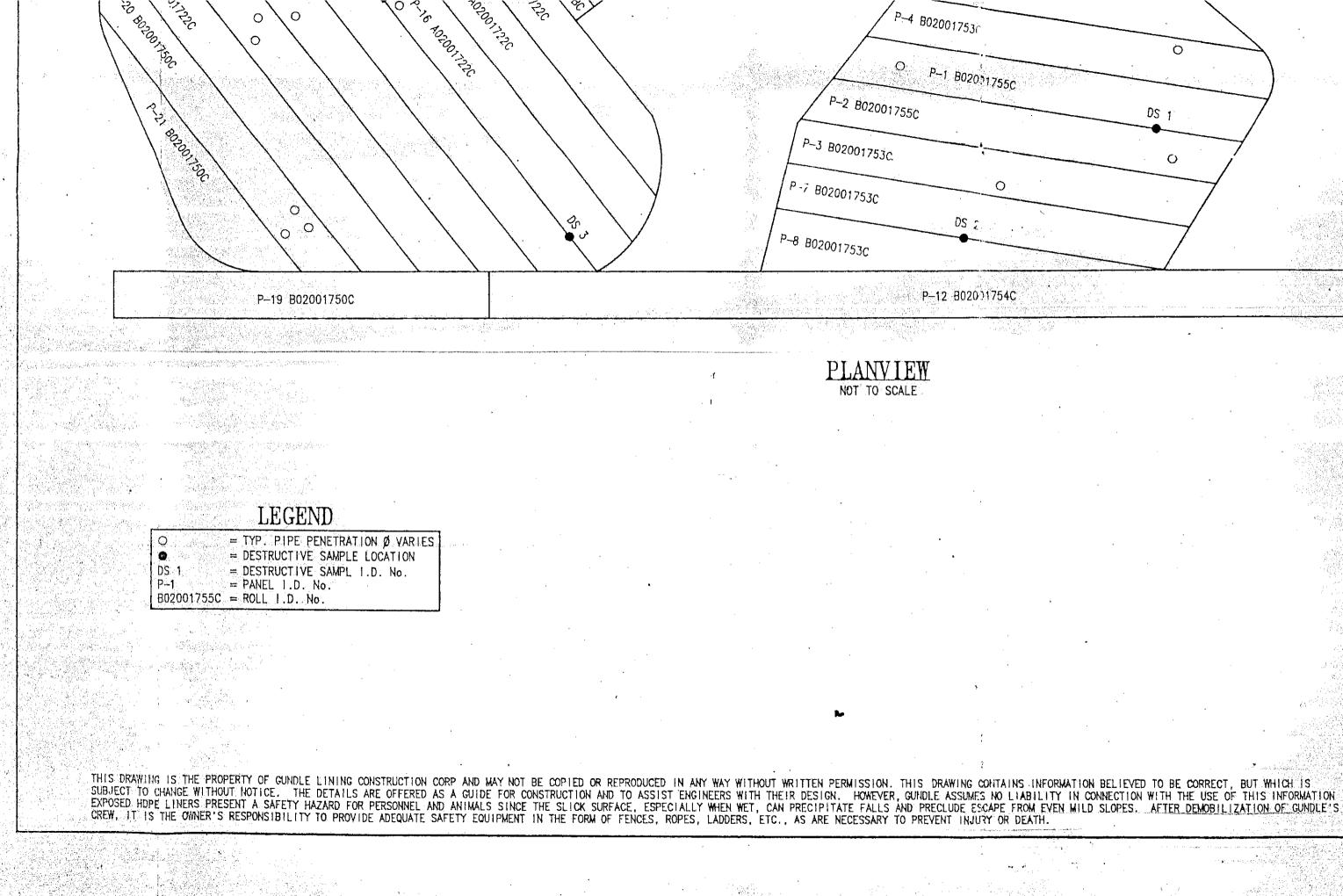
810352: 5-11-90

F-7

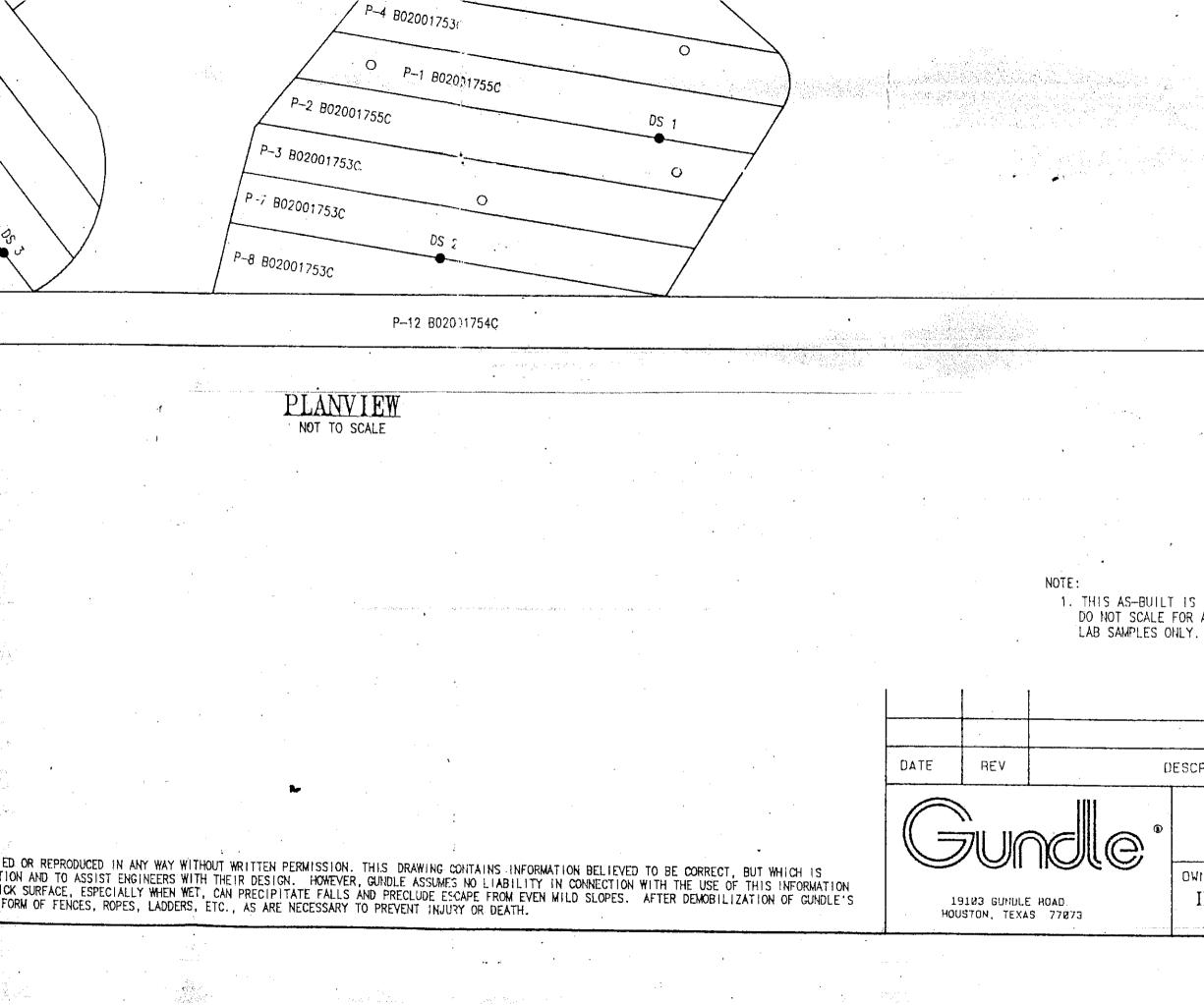
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ESCRIPTION	APPR'D BY	BY			
	DATE 1-18-90				
AS-BUILT DRAWING	SCALE AS NOTED				
OWNER	DRAWING NO 8049-F01	BY DT			
INTERNATIONAL PAPER LONGVIEW, WA.	APPROVED-BY DST	REV 0			

 \mathbf{N}^{2} .

1. THIS AS-BUILT IS FOR Q.C. PURPOSES ONLY. DO NOT SCALE FOR AREA TAKE-OFF. FOR

CLOSURE CERTIFICATION

ITEM 8

Gundle Weld Certification

810352: 5-11-90

F-8

Certification of the HDPE Welds and Seams for the HDPE Liner Installation at the International Paper Facility in Longview, Washington

I, <u>David Herreth</u>, certify that the HDPE liner seams are stronger than the original liner material and that the welds are acceptable as defined by the specifications for the liner installation, which are attached.

Signature Gundle Lining Systems, Inc.

.6.9 Dat

CLOSURE CERTIFICATION

ITEM 9

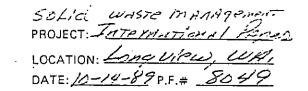
Gundle Installation Daily Reports

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F-9

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Jotin	Gundle
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DAILY PROGRESS REPORT

WEATHER: Temp. Max		۶F ۶	Precip	6	_in.	Wind: Ve		m	ph
	44	۶				Dir. N	SEV	v .	
LABOR: No.	Manhours	DEPLOY			······	·····		<u> </u>	
Supervisors	21	Туре	Panel .	Roil#	Length	Type	Panel	Roll#	Length
	31.5	40 mil.		B0200 1755C	305'	<u> </u>		·	
Laborers		11	#2	11 11	296'				·
		11 11	#3	130200 17.5.3C	258		·	ļ	
Operators			1						
Other ·	• •	<i>,</i> ,	705-01	Sa, fi	Per =	18,8	78		
	and the second second second						·····		
	·		<u> </u>						<u> </u>
WELDED	· ·				UUM.TESTE				
Gun# Tech. Seam#	(Linear Feet) Seam Weld Rep	Totairs Lin. 1		íí			near Feet)		Total
	Seam Weld net			<u>'s</u> Tecl	h. Seam	Seam We	ld Rep		Lin. Ft.
						ļ			·
				: <u>1</u>			<u> </u>		
			1						
		-							
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		·	<u> </u>		<u>,, 1</u>				
OTHER PROGRESS: Se	Tuo Den	louisa	Eaut	2 7 11	ulast.		aut.	-12	
Trailer & Che.	cked our	Gum	# 42	+ + 4	2 OE	YEU.	last SA	and 1	2.100
STATES De.	lander				~- <u></u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
FIELD MEMOS/CHANGE C	BDEBS ISSUED								·
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	Howard	Desi	_ 1.4	DI.					
SITE MEETINGS/VISITS:	<u>France</u>		1913	HZ MM	<u>T_///</u>	<u></u>	<u></u>	······································	
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SIGNED:	C. Ol	Do.				Al	: 66	7	1.C
Gyndle Representa	ntive		ner/Contract	tor	:	/ Inspecto	<u>⊤,</u> ,)r	<u>~!\.////</u>	
(WHITE)			(YELLOW)			(PINK)	•		

Jolly C	<u>Jouqle</u>
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Donia marie analysis LOCATION: <u>LOAGUIPEU 1018</u> DATE: <u>10-15-87</u> P.F.# <u>2049</u>

DAILY	PROGRESS	REPORT

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	•F		cip	in		Wind: Vel_	_		bh
تے۔ ^{Min}	°F	•		•] `	Dir. N	SEV	V	
LABOR: No. Ma	inhours	DEPLOYE	D:	-				·	•
Supervisors 2	n 1 · · · ·	Туре		oll#	Length	Туре	Panel	Roll#	Length
Technicians <u>3</u>		40 mil.	4 7	2001	221				
	~ ~ _	11 11	5 11	11	129,7			· .	` ~
Laborers	·····	11 11	6		87		<u> </u>	B0200	
Operators	·····	11 11	7 11		321'				
Other		•					-		
	· · · · ·		7	OTA.	1.591	feet -	16	69/	
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WELDED Yos				VACU	UM TESTE				
Gun# Tech. Seam# Sea	. (Linear Feet) am Weld Repai	Total irs Lin. Ft.	Sample No.'s	Tech.	Seam	Seam Weld	ear Feet) d Rep		Total .in. Ft.
42 Pro-me # 1 3	205' 0		10:			•			
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OTHER PROGRESS: De a	1 . 1	<i>г</i> .	D. I.	<u> </u>		11		<u>L_</u>	Λ
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<u>Seams & wele</u>	ded of	10-5-0	IM LE	1991 ale	pTp				
					<u> </u>				
FIELD MEMOS/CHANGE ORDE	ERS ISSUED:		<u> </u>	<u>,</u>					·
						<u></u>			
SITE MEETINGS/VISITS:						·····			
			·	·····	<u>_</u>		•	<u></u>	
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SIGNED:	1 Onl	1				1	a.	\frown	1
Gundle Representative	CONTRACT	Contraction	/Contractor			Inspector	<u>- 1/ /-</u>		24
			ELLOW)			(PINK)	•		
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JOHN	Gundle
10°	Gungre

الوادمة ومراشح مردور والواصرة براوسي لواحه والاموان المالوليون ف	
PROJECT: Fitternal The see	-
LOCATION: <u>DATE: 10-16-99.F.# 8049</u>	

DAILY	PROGRESS	REPORT
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WEAT	HER: T	emp. Ma	× 60	•F	· · · · · · · · · · · · · · · · · · ·	Precip	NƏ	· · · · · · · · · · · · · · · · · · ·	in.	Wind: Ve	<u> </u>	<u></u>	_mph
		Mi	<u> </u>	•F						Dir. N)se	W	
		N.			DEPLOY	'ED:		· · · ·					•
LABO	-	No.	Manhours	· [-	Туре	Pan	el A	loll#	Length	Туре	Panel	Roll	
Superv		-2			40 mil	#5		207	342	Ľ Z	<u>+</u>	1717	200
Techn			28.5						••				·~ .
Labor					··						ļ		
Opera	tors			·····									
Other		· · · · · · · · · · · · · · · · · · ·											
			•				77	DTA	Sq.F	pp 7	+ 75	124	/
			•				_						
WELD	EDVC	S.		•				VAC	UUM TESTE	D 110			· · _ ·
Gun#	Tech.	Seam#	(Linear Seam Weld	Feet) Repair	Tota rs Lin, I		Sample	· ·		(Li	near Feet)		Total
<u><u><u></u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u></u>	0	# /	1	_			No.'s	Tech	. Seam	Seam We	no · He	pairs	Lin. Ft.
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<u>- / _</u>	//	<u> </u>	240'	<i>O</i>	24								
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			767 F	207,	•								
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<u> </u>		<u> </u>											- <u> </u>
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			<i>p</i>							*********			
FIELD	D MEMOS/	CHANGE	ORDERS ISSUE	D:									
SITE	MEETING	S/VISITS:	Jay	Alm	rn.								
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	/ Gundle	Represent	ative	<u></u>	Owi	ner/Cor	tractor			Inspecto	or <u>a ca</u>		<u> </u>
		(WHITE)				(YELLC	(wc			(PINK)			

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SUFFICE WHSIC PRIVERTY CA
PROJECT: Internet find
LOCATION: Longuiera LUA,
LOCATION: 2019

DAILY PROGRESS REPORT

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WEATH	ER: Te		65		۴	Р	recip	C)	_in.	_			ph
		Mir	37		۴						Dir. N	s Ev	V	
LABOR:	; _	No.	Manhours		1	EPLOY	ED: Pane		Roll#	Length	Туре	Panel	Roll#	Length
Supervise	ors	2	3	,	1	mil	#9	· · · ·	302001	292	' '	1 and	11011#	Lengui
Technicia	ians	3	3415	•	11	()	<i>#</i> ,,	0	11 11	293'	·			· • •
Laborers	5		•		1	11	#1	1 4	02001	270	/			· · ·
Operator	rs ·								220	210			•	
Other		<u> </u>	•		<u>}</u>		<u> </u>			· · ·	<u> </u>			
		•	,								1	10		
		·	•						TOTA.	/ <i>Sq.</i>	ReT-		<u> 10</u>	-
WELDE	ס				11		•			UUM TESTI	_‼ ED	J	<u>.</u>	.!
Gun#	Tech.	Seam#	(Linear I Seam Weld			Tota		Sample		• • •	(Lii	near Feet)		Total
170	1 6011.	#6	- 7.2/	ner	bairs	Lin, F		No,'s	Tech	i. Seam	Seam We	ld Rep	airs	Lin. Ft.
	11 11	9 # 7	12/		7	32	4	0_				· ·		- <u></u>
/						12								
72 1	Pec-wee		121'			12	/		E	inister	f_Sea	ai # 7		<u> </u>
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<u>Le</u> f	2/0-4	ed.	Three	-4	<u>74.n</u>	<u>e/s</u>	ON		Tound	0 # 2	2 4-2	ling	10	ne
SCA	<u>4/11,</u>		<u>-</u>											<u>-</u>
FIELD N	MEMOS/C	HANGE (ORDERS ISSUE	D: _										
			<u>-</u>				·		·- ···	··	<u> </u>			
SITE ME	EETINGS	/VISITS:							·					
			·····											<u> </u>
			<u> </u>	 				<u>.</u> _			······	·		
SIGNED	$\left[-\alpha \right]$	71:20	Contra)[le	,					Han.	a Ch).	, D
1	Gundle	Representa	ative				er/Con			<u> </u>	Inspecto	r	<u> </u>	
j.)	(WHITE)					YELLC	(WC			(PINK)			



PROJECT: FATPEN Stienel Prose.
LOCATION: <u>LOAG 11/PW, 1014</u> , DATE: <u>10-18-89</u> P.F.# <u>8049</u>

DALLY	PROGRESS F	REPORT
	110011-001	

LABOR: Supervisors Technicians Laborers	No.	Manhours										
Technicians	2	Manin Oct 3		DEPLOYE ype	ED: Panel	Bo	JI[#	Length	Туре	Panel	Roll#	Length
	<u> </u>	_10		mil,	#12	800 75	40	644				
Laborers		_15								-	1	
					•							
Operators					•			· ·				
Other	• . •				•							
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WELDED NO	nP				18		VACL	JUM TESTE	D NO.			
Gun# Tech.	Seam#	(Linear Seam Weld	Feet) Repairs	Total Lin. Ft		nple b.'s	Tech.	Seam	(Li Seam We	near Feet) Id Rer	pairs	· Totai Lin. Ft.
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												·
OTHER PROGRI	ess:De	slowed.	Pane	_ #	12	011	- fl	nd	NPYT	. Ta	man	-0
<u>#/ ¢ (</u>	nuer	<u></u>	1. 72	PUN	4.9	<u>. 5</u>	- F2/2	1 3	EG.	SAME) <u>es</u>	-
<u> </u>	<u>1 0</u>	ut (2) 12	100	(P.M	1,						
FIELD MEMOS/	CHANGE (ORDERS ISSUE	D:									
		· · · · · · · · · · · · · · · · · · ·									·	.
SITE MEETINGS	S/VISITS:						·					
	·••											
		<u> </u>						· · · · · · · · · · · · · · · · · · ·	- <u>-</u>			
SIGNED:	3611	Course	206						11	C.	\sim	
<u> </u>	Represent			Owne	er/Contrac	tor		·	Inspecto	<u>ог</u>		<u></u>
V	(WHITE)			(YELLOW)				(PINK)			



PROJECT: FAT-mint Kinge
LOCATION: Longview lung,
DATE: 10-19-89 P.F.# 8049

DATIN	PROGRESS	REDUBL
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WEATHER: Te	mp.` Max Mir	<u> </u>	۴ ۴	Pred	;ip	0	in.		Wind: Vel Dir. N			mph
			·····	DEPLOYE	 זי							
LABOR:	No.	Manhours		Гуре	Panel	Ro	xII#	Length	Туре	Panel	Roll#	E Length
Supervisors	2 27	_22_										
Technicians	_ <u>_</u>	33			•							
Laborers		····										
Operators		· ·										
Other		· ·			· <u> </u>		•	<u></u>				
											 	
· -		· · ·			· · · · · · · · · · · · · · · · · · ·	1			<u> </u>			
											<u> </u>	l
WELDED VE	<u> </u>	Linear	Feet)	Total	Sam	pie	VACUL	<u>JM TESTI</u>	<u>=D</u> Lii	near Feet)	<u> </u>	Total
Gun# Tech.	Seam#	Seam Weld	Repairs	Lin, Ft,			Tech.	Seam	Seam We		pairs	Lin, Ft,
Hong Per-une	# g	65'	0	65	1							3
Sec. 11 1		•		i								
welded #	4											
X-Semm	<u>,</u>	96'	0	96	7							
<u> </u>	· /			161								
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OTHER PROGRI	≡ss: <u>//</u>	un Li	ner	INTO	,/	A		hered	44	But	:17	X
Installe.		1 2"	BOOTS		one	۶	3" 13	3007	φ	weld	Ced	2
SAMP.	4	Wolde	00 4	1 X	- 5	جرح	ins	OR	BOTTO	ina Ot	C Pe	onD
FIELD MEMOS/	CHANGE	ORDERS ISSUE	D:									
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SITE MEETINGS												
SHEWEETINGS	V 13113.	·										
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SIGNED	、	. [][O_{i}	,					1/	0.	$\overline{}$	6
<u> </u>	Represent	<u>C (CLU</u>	<u>un</u>	<u> </u>	r/Contrac				Inspecto	<u>(1×4_)</u>	<u>ر میں م</u>	11/4
Gundle	(WHITE)	191146			'ELLOW)				(PINK)	21		
			-									



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PROJECT: Intermational Proces
LOCATION: Languiew with
DATE: 10-20-89 P.F.# 8049

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WEATHER: Temp. Max <u>60</u> Min <u>40</u>		Precip. <u> </u>	<u>, e.S.</u> in	. v	/ind: Vel_ Pir. N S	<u> </u>	mp	h
LABOR: No. Manhour Supervisors <u>-2</u> 19 Technicians <u>-3</u> 28,	rs Tyr	PLOYED: pe Panel m.12. ^{±1} 3	Roll# 1758	Length //2 X	Туре 2.7	Panel	Roll#	Length
Laborers Operators Other			TOTAL ON We	59. F. 57 5/2	eet : Ip of	7 <u>4</u> 6	ef sment	Bla,
Gun# Tech. Seam# Seam We 79 Rec Loce # 8 4/4/1		Total Sam Lin. Ft. No 444	nple		(Linea Seam Weld		airs L	Total in. Ft.
OTHER PROGRESS: <u>STAY TO d</u> <u>Both</u> <u>Guide</u> <u>ge To 119</u> <u>SIDE OF</u> <u>Tre Anient</u> FIELD MEMOS/CHANGE ORDERS SITE MEETINGS/VISITS: <u>SIGNED:</u> <u>Gundle Representative</u> (WHITE)	HOT, D Blq. 4. J	enloyed TASTALLA	one f 1 84' c 2. ALSC	anel o	of 60	199 # 5 199 / 4. STA / A 2"	9 4- 0 H 1055 S B007 - - - - - - - - - - - - -	<u>wes</u> <u>To</u> <u>To</u> <u></u>



PROJECT: Internat Price
LOCATION: Languien, Lus,
DATE: 10-21-19 P.F.# 2049

HCA I DI	n: ler	p. Ma Mi	in <u>32</u>	· 	°F	Ρ	Precip.	<u> e</u>	5	_in.		Wind: Ve Dir. N	(S) E	<u>/0</u> w	_mph
LABOR:	 N					LOY	ED.			;				**	
			Manhours		Тур		Panel		Roll#	<u> </u>					
Superviso	rs	2 3	8		60 m		# 14	Die 1	5600 580		ength	Type	Panel	Rol	l# Leng
Technicia	ris <u> </u>	5	12		1-22 <u>74</u>	16.	17-	1/7	580	84	, x2	p'			
Laborers					<u>├───</u>										
Operators	:	[<u> </u>				•			
Other			•]						, <u> </u>		1	
• •					· · · · · · · · ·									†	
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WELDED	Nor	1e		<u> </u>				<u> </u>	<u>l</u>			l [
			(Linear	Feet)		Total	Sam		VACI	<u>UUM</u>	TESTE				
un# T	ech. S	eam#	Seam Weld	Repa		n. Ft.			Tech.	Seam	eam	(Line Seam Welc	ear Feet)	<u> </u>	Total
·				ļ								Ueani weit	f Repa		Lin, Ft.
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// Gur	die Repre	entativ	<u> Crester</u>	<u>1140</u>							Å	and l	(\overline{c})		, E
V	(WHIT		1		Ow		ontractor				_ <	Inspector	<u></u>	<u>a) []</u>	11-1
						(YEL	1.000					(PINK)			



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PROJECT: For Tours The and Paper
LOCATION: Lonowiow was
DATE: 10-22- P.F.# 8049

WEATHER: Temp. Max <u>66</u> Min <u>48</u>	°F	Precip	. <u>v</u> e	<u>s</u>	in.	Wind: Vel Dir. N			ph
	·								
LABOR: No. Manho		DEPLOYED: Type Pa	nel F	Roll#					
Supervisors _2 /	0	12218	<u>nei r</u>	<u>1011#</u>	Length	Туре	Panel	<u>Roil</u> #	Length
Supervisors <u>2</u> / Technicians <u>3</u> / <u>4</u>	5								
Laborers			<u> </u>			· · · · · · · · · · · · · · · · · · ·			
Operators							•		
Other									
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WELDED				╢──╌┌╴		1			
	Linear Feet)	Total	Sample	VACL	JUM TESTE	<u>p Vesi</u>			
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SITE MEETINGS/VISITS:		· · · · ·							
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Gundle Representative	, , , , , , , , , , , , , , , , ,	Owner/Con	tractor		Q	Inspector		<u>, , , , , , , , , , , , , , , , , , , </u>	\sim
./ (WHITE)		IYELLO	W}			(PINK)			



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PROJECT: International 12,
LOCATION: Lang View Lutt
DATE: 10-23- P.F.# 5049

WEATHER: T	emp, Ma Mi	x <u>57</u> n <u>49</u>	۰۴ ۲	Precip	у	23	in		Wind: Vel Dir. N	<u>/5</u> S e v	<u>20</u> mi 1	ph
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LABOR:	No.	Manhours	Туре		inel	Ro	11#	Length	Туре	Panel	Roll#	Length
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Technicians	<u>-</u> 2 <u>-</u> 3								<u> </u>] [1
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Operators			- I ·									
Other									. ·			
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WELDED							VACU	UM TESTE	D			
C		(Linear Feet		Total	Samp	- 11			(Lir	near Feet)		Total
Gun# Tech.	Seam#	Seam Weld Re	epairs t	.in. Ft.	No.'	S	Tech.	Seam	Seam We	ld Rep	airs l	.in. Ft.
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FIELD MEMOS/	CHANGE	ORDERS ISSUED:						······		······	•	
SITE MEETING	S/VISITS:	·					<u> </u>	<u> </u>				
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SIGNED:	(s. i (.) Represent (WHITE)	Consule ative	Ve.	Owner/Co (YEL)		or			(PINK)	<u>ç. (11</u>	Perce	. <u>.</u>



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PROJECT: Jurenarianal P LOCATION: <u>Longuiew WA.</u> DATE: <u>10-24-89</u> P.F.# <u>8049</u>

WE	ATHER:		ax <u>67</u> in <u>44</u>		•F •F	F	Precip	No	10	_in.	Wind: Ve Dir. N	(<u>\$</u> _/		_mph
LAB	OR:	No.	Manhours		[DEPLOY	ED:	·	<u> </u>			·		
Supe	rvisors	2	23		<u> </u> ⊺	уре	Panel	F	loll#	Length	Type	Panel		
Tech	nicians	3	34:5	_	40		#15	AC	200	122×2		1 anet	Roll	# Lengt
Labo						11	#16	11		80'X22				_
			<u> </u>		11	11	# 17	11						_
Oper					11	11	#18		_//	131'x 26	.			
Othe	r .		••••••••••••••••••••••••••••••••••••••						7500	81'X22		AI 59	Fee	0x -
	••••	• •		·.			<u>#19</u>	BL	7500	177 × 20	. /	18 0	24	
•		• •••			_1/		#20	11	11	82'x22	1	7		
			 / .		_ []	11	#21	11	11	140'222	1			
_WELL	<u>1</u>	<u> </u>	, <u> </u>						VACI	UM TESTE				
Gun#	Tech.	Seam#	(Linear Seam Weld	Feet) Repa	ire	Total	Sam		!			ar Feet)		Total
:				пера		Lin. Ft.	No.	's	Tech.	Seam	Seam Welc	l Repa	irs	Lin. Ft.
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_	Gundle Re	epresentativ	<u>Cirklul</u>	220							4	(\overline{C}_{1})		2.
+	· /	HITE)			()wner/Ci (YEL	ontractor				Inspector		112	<u>x-y</u>
						(126)	LOW}				(PINK)			

Gundle

PROJECT FITTOR AT CONAL POLICE
LOCATION: Long View With
DATE: <u>10-25-8</u> 9p.f.# <u>8049</u>

DAILY PROGRESS REPORT

WEAT	HER: Te		x <u> </u>		1	Precip	<u> </u>	<u> 7/e</u> in		Wind: Vel_ Dir. N (>_		mph
LABO	R.	No.	Manhours		DEPLO	YED:							
Superv		/		-	Туре	Panel	Ro	oll#	Length	Туре	Panel	Roll	# Length
Techn		-7	33										
Labor		- <u>·</u>				1						<u> </u>	
Operat			• . • . •	·								 	
Other	.013	·	• • •					<u>`</u>					
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WELD	· · / ·	<u> </u>	(Linear		Tot	al Sa	nple	VACU	JM TESTE		ear Feet)		Total
Gun#	Tech.	Seam# #9	Seam Weld	Repair	s Lin.	Ft. N	o.'s	Tech.	Seam	Seam Weld	d Rep	airs	Lin, Ft.
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FIELD) MEMOS/C	HANGE	ORDERS ISSUE	D:		·							
SITE	MEETINGS	/VISITS:	Jay	4	мен								
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	VER2	<u>Represent</u>	Caul	200	<u></u>	ner/Contra				dau	<u></u>	Jan	113
										 Inspector 			

Gundle		°	PROJE LOCAT DATE:	ION: <u>L211</u> 10N: <u>L211</u>	<u>19135/2014</u> 1913/2014 2 P.F.#	<u>1 19</u> 22 1019 1049
	DAILY PROC	SRESS REPOR	<u>.</u>			
WEATHER: Temp. Max <u>51</u> Min <u>43</u>	°F Pre∙ °F	cip. <u>Ve5</u>	in_	Wind: Vel_ Dir. N	<u>_</u> 3 S E W	mph
LABOR: No. Manhours Supervisors <u>1</u> Technicians <u>3</u> 24	DEPLOYEI		oll# Length	Туре	Panel R	oli# Length
Laborers						
Other						
WELDED NOME (Linear Fe	eet) Totai	- Sample	VACUUM TESTI		ear Feet)	Total
	Repairs Lin. Ft.	No.'s	Tech. Seam			Lin. Ft.
OTHER PROGRESS: <u>Le's Terred</u> X 4' 1300 T " 6" x (2) 12:00 (FI 17), 9 FIELD MEMOS/CHANGE ORDERS ISSUED:	4:00 1	4 # 1	//// 	X 4' <u>Bo</u> ' <u>Bost</u>	at ¹ Raine,	12" 6 out
SITE MEETINGS/VISITS:	rd Ds.	ine/s	· · · · · · · · · · · · · · · · · · ·			
Gundle Representative (WHITE)		Contractor LLCW)		Inspector (PINK)	£.C.	
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PROJECT: International Para
LOCATION: LOAGUIEW, WA
DATE: 10-27-89 P.F.# 8049

DAILY PROGRESS REPORT

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			n <u>40</u>	•F						Dir. N	S E I	Y	
LABC	R:	No.	Manhours		DEPLOY		1						
Super	visors	_/	9.5		Туре	Panel	R	oll#	Length	Туре	Panel	Roll#	Length
Techn	icians	_ 7	28,5							•		<u> </u>	<u> ··</u>
Labor	ers				,	· ·	 			ļ			·
Opera	tors			•								<u> </u>	
Other			· ·				 					ļ	· · · · ·
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WELD			(Linear)	Feet)	Tota	I Samı	ole	VACU	UM TESTE	D VES	lear Feet)		Total
Gun#	Tech,	Seam # $\#16$	Seam Weld	Repairs	Lin. F		's -	Tech.	Seam	Seam Wel			Lin, Ft.
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		X-SPANS	100	0	10	0 0		<u>X-:</u>	PAM.	5,			
19	Lee_	#14	_96'	_0_	96	10	•						-
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FIELD	MEMOS/	CHANGE (ORDERS ISSUE	D:									
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	/ Jundle	Representa	itive		Owne	er/Contracto)r			Inspector			



PROJECT: THIRPHATIONAL Page
LOCATION: Duc ujew. WA.
DATE: 10-28-59P.F.# 20-19

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WEATHER:	Temp. Ma	x	°F	Precip	<u>, </u>		in.	Wind: Vel_	8		_mph
	. M	in	°F					Dir. (N	SEV	V	
				DEPLOYED:			<u> </u>			•••	
LABOR:	No.	Manhours			anel	Roll#	Length	Type	Panel	Roll	# Lengt
Supervisors		10,5								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Technicians	.3	.31,5									
Laborers											
Operators		•									
Other		· · ·						<u> </u>			
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	20		·			<u>I</u>					
NELDED Ve	<u></u>	L (Linear	Feet)	Total	Sampl		UUM TESTE		<u> </u>		·
iun# Tech.	Seam#		Repairs	Lin. Ft.	No.'s	11	. Seam	Seam Weld	ar Feet) I Repa	airs	Total Lin, Ft.
15 Pere	#9	711	0	77'		1 she					
·5 11 11		141'	0	141	· · · / ·			<u> </u>			
19 Lee	£10	142'	0	142'							
15 Replace		2751	0	275'			·				
111 Perun		103'	0	103'				<u> </u>			
19 Lee	#13	180'	0	180'				·			
II LOP	-4 146	77'	0	77'	<u> </u>		7				
5 Pip-ur	1 IM	791		791	<i>[-[n</i>	il red	<u>′·</u>				
			0		<u> </u>						
19. Lee 79 11 11	10	105'	<u> </u>	105	<u>.</u>						
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Gundl	e Represent	CELLER.	<u>e.C.C.</u>	Owner/Co				Charles.	<u>41-L-1</u>	7111	1.2
i) Canar	(WHITE)	ωτη ΙΨ Ιω		Uwner/Cd (YELI				 Inspector (PINK) 			
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	Gundle
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PROJECT TATTOR ATTORNAL TELES
LOCATION DAGNICH LUA,
DATE: 10-29-89 P.F.# 8049

DAILY PROGRESS REP	PORT
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			31	·						Dir. (N	SE	vv	
LABC	R:	No.	Manhours		DEPLOYED		1			π			
Super	visors	1.			Гуре	Panel	Roll≠	<u>+</u>	Length	Туре	Panel	Roll	# Length
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Opera	:	-	-							<u> </u>			
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VELC			(Linear Fe	et)	Total	Sam	ple	ACUL	JM TESTE	D (Lir	iear Feet)	r	· Total
un#	Tech.	Seam#	Seam Weld	Repairs	Lin. Ft.	No.		Tech.	Seam	Seam We		pairs	Lin. Ft.
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IELC	MEMOS/	CHANGE (DRDERS ISSUED	:		····							
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		Representa			a (Contract				Inspector			

ITEM 10

Certification Letter By Mr. John Duncan

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F-10

GIBBS & OLSON, INC. ENGINEERS PLANNERS SURVEYORS

February 7, 1990

James L. Grant & Assoc., Inc. 8301 E. Prentice Avenue, Suite 402 Englewood, CO 80111

Attention: Noelle Sears a a substantia a su Substantia a substantia a substantia a substantia substantia a substantia a substantia a substantia a substanti

Longview, Washington, Treated Wood Products Impoundment Closure Re: Closure

Dear Noelle:

The following written report is to document your facsimile transmittal of February 2, 1990, and our phone, conversation of February 6, 1990. The report responds to the items specified with my initials on the February 2, 1990 transmittal and High Density Polyethlene Engineering Specifications.

If you have any questions about the response or feel that additional clarifications are necessary, please call.

Additionally's I am enclosing copies of the daily reports and Pre-weld Qualification sheets for your records. I look forward to meeting with you to finish up the final report. ى يەرىپ ئېرىكى ئېڭى يېرىكى ئېرىكى ئېرىكى يېرىكى ئېرىكى ئېرىكى ئېرىكى ئېرىكى يېرىكى يېرىكى يېرىكى يېرىكى ئېرىكى
Sincerely,

GIBBS & OLSON, INC.

John Duncan, PEE. ∾L:S./~%

Enclosures cc: J. Amin JD/sv File: 375.13.10

1405 17TH AVENUE, SUITE 300 + P.O. BOX 400 + LONGVIEW, WA \$5532 + (206) 425-0591

GIBBS & OLSON, INC.



RESPONSES TO HIGH DENSITY POLYETHLENE ENGINEERING SPECIFICATIONS

III. MATERIALS, G., 2. "One dog bone shall be cut out of each sample and subject to a pull test at the site."

The test procedures were periodically reviewed by me. Pictures and actual test samples were taken and are available upon request. In addition, I am enclosing a copy of Gundle's Pre-weld Qualification, which should cover each dog bone test. It appears that some of Gundle's Pre-weld Qualification sheets are missing. A review of the daily progress reports show dates when welding took place, but no corresponding Pre-weld Qualification sheet are shown. Daily reports show welding on both the 15th and 20th, but no Prequalification Report. Jim and Larry, Gundle's representatives on the site, both assured me that all tests were taken.

III MATERIALS, C. Inspection, 2., a.

I visually inspected the seams of entire liner. In addition to this visual observation, onsite testing as outlined above was performed. Gundle performed vacuum testing on all seams (see reported dated 10/29/89) and reported them as good. No discrepant were found.

III MATERIALS, 3. Report and Certifications, a. & b.

These items refer to a report by manufacturer's representative. I am neither a representative of the manufacturer nor qualified to technically review the materials which Gundle provided. As International Paper's representative, I observed that the materials were delivered to the site, and appeared to meet all the manufacture's specifications.

IV. INSTALLATION, C. Seaming Methods, 1

I witnessed testing of the dog bone sections as outlined above. This testing demonstrated that each weld in tension, had in excess of 100% of the strength of the original material.

V. QUALITY ASSURANCE, B. Sheet Manufacture, 3., d.& e.

The items listed here appear to be information supplied by Gundle. Gundle provided no such information to me.

V. QUALITY ASSURANCE, C. Installation Quality Control, 2. Welding, b., l., a.

I observed that all welds attained their maximum strength within minutes upon completion. This was demonstrated by the pull tests being performed within minutes of the successful welding of the two pieces together.

CLOSURE CERTIFICATION

ITEM 11

Results of Field Pull Test

810352: 5-11-90

F-11

END 1



SHEET B



FAILURE

OVERLAP OF SHEET A

WELD

EXPLANATION OF FIELD TENSILE TEST

Sheets A and B were welded together using an extrusion welding process. A portion of Sheet A was placed underneath Sheet B, providing an overlapped area at the seam of the two sheets. The extrusion weld was placed at the edge of Sheet B, were it contacted Sheet A. For each day of welding, a sample weld sheet was prepared. An approximately one-inch thick piece was cut from the sample weld sheet for tensile strength testing on-site. The materials shown above are remnants from the testing.

Initially, the sample piece was placed in a vise so that Sheet A was under tension. (Ends 1 and 2 clamped in vise). The tensile forces were gradually increased until failure occurred. In the sample piece shown above, Sheet A was torn in half and the weld was undamaged. These results indicate that the weld was stronger than the parent material in Sheet A. For the second step of the tensile test, the sample piece was placed in a vise so that Sheet A, Sheet B, and the weld were under tension. (Ends 1 and 3 clamped in vise). The tensile forces were gradually increased until failure occurred. In the sample piece shown above, Sheet B failed and the weld was undamaged. These results also indicate that the weld was stronger than the parent materials in Sheets A and B.

JAMES L GRANT & ASSOCIATES JO geotechnical engineering • management • EXAMPLE OF FIELD TENSILE TEST computer science ENGLEWOOD, COLORADO

L'EFT





END 2



END 3

ITEM 12

Gundle Destructive Test Laboratory Results

810352: 5-11-90



Laboratory Report # 7018

DATE: 01/19/90

SUBJECT:

Quality control testing of site welds from INTERNATIONAL PAPER LONGVIEW WA 8049

Product type: HDPE 040 MIL

TEST METHOD:

[ASTM D638 Type IV dumb-bells were used for peel and shear testing of the welds.]

TEST RESULTS: (FTB = Film Tearing Bond)

Seam/Sample	Result Type	Peel Stress, ppi	Max Shear Stress, ppi
3/3	FTB	72	122
1/DS-1	FTB	94	123 -
4/DS-2	FTB	86	125

CONCLUSION: All welds passed.

CERTIFIED BY:

Rodney Crenwelge Lab Manager

CLOSURE CERTIFICATION

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Weld Testing Procedure Discussion

F-13

LONGVIEW, WA

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ITEM 13

Discussion

GIBBS & OLSON, INC. ENGINEERS PLANNERS SURVEYORS

March 12, 1990

James L. Grant & Associates, Inc. 👘 8301 East Prentice Avenue, Suite 402 Englewood, Colorado 80111

Attention: Noelle Sears

International Paper Facility (Longview, WA) Reference: Weld Inspection

Dear Noelle:

Thank you for your letter dated March 9, 1990, requesting clarification of the high density polyethylene (HDPE) linear welded seam test methods. and a start prime some first at the

As joutlined in the specifications, a combination of various 1.5% test methods are used to insure that all seams are of excellent quality and devoid of discrepancies tunnels or holidays. Test mmethods fall into two categories as listed below:

Spot Checks A. Spot test of each welding machine three_times a day DB. Onsite pull test of sample welding sections C. Test pieces (samples) from each days work sent to a lab for verification testing

2. Field Testing All Seams Upon Completion A. Visually reviewing all welds

B. Field Testing all welds by means of: 1. Ultrasonic testing, or 2. Vacuum testing

Z. Yacuum The Specification recommended field test procedure for the Longview Washington site was 2., B., 1. - "Fielding Testing all welds by Ultrasonic". The ultrasonic method consists of calibrating a transducer unit to measure the thickness of each acceptable weld and measuring each and every weld by passing the properly calibrated transducer over all welds. The Gundle representative reviewed the ultrasonic test method. He was concerned that welds which will pass the test for thickness, still have potential for tunnels or voids in the seams. Test method No. 2., B., 2 for the complete lining system is "vacuum testing of all seams". The vacuum method will not measure seam thickness, but it does insure that no tunnels or voids exist, guaranteeing an impermeable linear. The goal at the Longview site is to create an impermeable layer

1405 17TH AVENUE, SUITE ECC • P.C. 60X 400 • LONGVIEW, WA 68232 • (206) 425-0391

Page 2 James L. Grant & Associates, Inc. March 12, 1990

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which surface water can not penetrate. I selected vacuum testing as the best method for achieving the desired goal. The reasons outlined above (substituting the vacuum testing for the ultrasonic testing) is actually an improvement over the original specification.

If you have any additional concerns or questions about this issue, please call me at 206/425-0991.

Sincerely,

GIBBS & OLSON, INC.

By John A. Duncan, P.E., L.S.

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ITEM 14

Gundle Vacuum Test Reports

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810352: 5-11-90

F-14

<u> Muare</u>

LOCATION: Long rien high DATE: 10-15-89 P.F.# 8049 MATERIAL: 40 Mit.

PRE-WELD QUALIFICATION

Welder # $\frac{\#42}{2}$ Welded by: <u>Pee-wee</u> Time: 12:30 P.M. Temp. - 210-235 Welder # $\frac{442}{10-16-89}$ Welded by: Per-here Time: <u>8:30 A.M.</u> Temp-210-235 Welder # $\frac{79}{10-16-89}$ Welded by: Lee Time: 3:00 P.M. Temp-210-230 Welder # ± 42 Weided by: Pee-wee Time: <u>8:00 A.M.</u> 10-17-89 Temp: - 210-235 Welder # Welded by: Time:

10-19-89 Welder # $\frac{\pi^2 79}{2}$ Welded by: Pee-wee Time: 12:30 P.M. Temp-215-240 Welder # # 79 . 10-21-89 Welded by: 100 Time: <u>1130 P.M.</u> Temp. 220- 240 Welder # $\frac{\pm 42}{10-25-89}$ Welded by: Pee-wee Time: 1:00 P.M. Temp. 215-235 Welder # 15 Temp- - 215-240 Weided by: Pee-wee Time: 1:00 P.M. Welder # $\frac{\#79}{1}$ Welded by: Time: 1:00 P.M. Temp. 215-245

en la Gundle Representative

Hand Inspector



LOCATION: Antone	<u>erin (1) fin</u>
DATE: 10-2-2-2 P.F.#	1 Uno 9
DATE: <u>/////</u> P.F.#	<u>x /</u>

VACUUM TEST REPORT

Seam #	Da Inspe		# of Repairs	Location of Repairs	Date Repaired	Date Re-Inspected	Comments
# 1	10-	22-89					FII weld oic
+2	11	11					11 1/
# 3	[[17	<u> </u>				10 11
£ 4	11	11					11 11
#5]]	11					11 11
#la	11	11		15 From ArThierch	10-22-89	10-77-89	11 11
· · ·				ON EAST EN	D,		
# 17	#10-	27-89	0				11 11
#8	11	11	0		-	ļ	11 11
# 9	10-0	29-89	1	33' From A. Thrend Out	10-29-81 North End	10-29-89	(1 11
# 10	11	11	0		-		11 11
# 11	11	11	0				11 11
#12	11	11	0				11 11
# 13	11	11	0				11 11
# 14	11	11	2	AT T- JoinT.	10-29-89	10-29-89	₽
# 15	17	11	$ _{\mathcal{O}}$		-		
#16	10	17	0				
417	11	(]	0				· · · · · · · · · · · · · · · · · · ·
#18	10	(/	0				
#19	11	11	0				
		•					

Quality Control Supervisor



LOCATION:	Long V. Z.	v, WA,
DATE: 10-	- <u>28-89</u> P.F.#	8049
MATERIAL:	40	

PRE-WELD QUALIFICATION

Welder # $\frac{42}{15}$
Welded by: Ree-wee
Time: <u>8:30 A.M.</u> TEMP- 215-240
Welder # $\frac{22}{29}$
Welded by: <u>222</u>
Time: 9:00 A.M. TEMP - 220-245
Welder #
Welded by:
Time:
Welder #
Welded by:
Time:
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<u>Dierwelle</u> sentative Gundle Representative

Hanne E ull Inspector

CLOSURE CERTIFICATION

APPENDIX G

SEEDING DOCUMENTATION

LONGVIEW, WA

810352: 5-11-90

AMERICAN LANDSCAPE MAINTENANCE P.O. Box 1061 Kelso, WA 98626 423-1881



NOVEMBER 13, 1989

JOHN DUNCAN GIBBS & OLSON INC. 1405 17TH AVENUE LONGVIEW, WA. 98632

RE: HYDROSEEDING at INTERNATIONAL PAPER

I have talked with U.S. Dept. of Soil Conservation Service. Their recommendation (see attached) is in my opinion, the best seed mixture for INTERNATIONAL PAPER'S particular situation.

Along with the seed I recommend:

[1] 2,000 LB of SILVA FIBRE MULCH per acre.

[2] 300 LB of PAREX 14-19-19 STARTER FERTILIZER per acre.

[3] 300 LB of CALPRIL LIME per acre.

The above rates are standard and will insure good seed germination, followed by a thick stand of plants (grasses and clover.)

I have also spoken with our local Co-operative Extension Agent, JOE CROFT. He approved the recommendations. We spoke over the phone and I have sent him a complete letter for his records.

Sincerely,

DWAIN BUCK

DB/as Enc: AMERICAN LANDSCAPE MAINTENANCE P.O. Box 1061 Kelso, WA 98626

423-1881

NOVEMBER 13, 1989

GIBBS & OLSON INC. ATTN: JOHN DUNCAN 1405 17TH AVENUE LONGVIEW, WA. 98632

RE: BID to HYDROSEED at INTERNATIONAL PAPER (APPROXIMATELY 3 ACRES)

A. MATERIAL RATES PER ACRE:

[1] 75 LB. SEED MIX

- [2] 300 LB. PAREX 14-19-19 W/IBDU
- [3] 300 LB. CALPRIL LIME
- [4] 2000 LB. SILVA FIBRE MULCH

B. AREA WILL BE SEEDED BY DRAGGING HOSE OVER THE TARGET AREA.

[Our equipment will not drive on the area to be seeded.]

PRICE PER ACRE: \$975.00

This price does not include SPRING or FALL application of fertilizer, which I highly recommend.

BID SUBMITTED BY : DWAIN BUCK C/O AMERICAN LANDSCAPE MAINTENENACE PO BOX 1061 KELSO, WA. 98626 (206) 423-1881

LATE-SEASON NITROGEN FERTILIZATION John R. Street, Ph.D., Associate Professor, Ohio State University

It has been pointed out that heavy nitrogen fertilization during the spring and summer is undesirable for cool-season turfgrasses. Nitrogen fertilization has proven beneficial during the late fall (late season) on cool-season turfgrasses (Powell, Blazer and Schmidt). Decreased disease, improved stress tolerance, and increased rhizome and root growth are among several of the claimed advantages to the "late-season" nitrogen fertilization program. The late-season program is based on differences in optimum temperatures that exist between (1) root-rhizome growth versus shoot growth and (2) photosynthesis versus respiration.

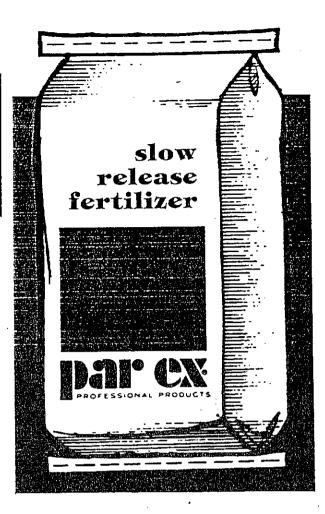
Shoot and root growth of cool-season turfgrasses occur most readily in the temperature ranges of 60-75°F and 50-65°F, respectively. Root growth of cool-season grasses will continue at soil temperatures close to freezing (Koski, 1983). Shoot growth will cease at higher temperatures than that for root growth. Late-season nitrogen fertilization capitalizes on this differential. Under late-season fertilization, nitrogen applications should be made when vertical shoot growth has stopped, but the turf leaves are still green to produce carbohydrates via photosynthesis. Air temperatures of 45-50°C are usually necessary for vertical shoot growth stoppage. It is important to understand that since temperatures will be at a point causing stoppage of topgrowth, roots, rhizomes and stolons will capitalize on any applied nitrogen. The carbohydrate produced will be more efficiently used for root, rhizome and stolon growth during the late fall and winter periods. It is critical that the nitrogen be applied prior to dormancy for maximum efficiency of applied nitrogen. Once the tissue has turned brown, photosynthesis will no longer occur. "Late-season" fertilization is not dormant fertilization.

During late fall, photosynthesis is higher than respiration for cool-season grasses. With green tissue, photosynthesis will occur readily at low temperatures. The high net photosynthesis during late season leads to maximum carbohydrate production and carbohydrate storage for reserves. The positive carbohydrate balance favors root and rhizome growth over topgrowth since air temperatures are well below that considered optimum for shoot growth.

Nitrogen applications during the late season if timed properly will extend the greening of the turf later into the fall and winter. Spring green-up will normally occur earlier. The green turf is photosynthetically active favoring a positive carbohydrate balance. Late-season nitrogen fertilization increases the "green growing" period of the turfgrass plant later into the fall and earlier in the spring. Physiologically, this is a positive agronomic practice.

The most efficient nitrogen fertilizers for use in late-season fertilization programs are those independent of temperature for nitrogen release. Soil temperatures and microbial activity are low at this time of the year resulting in less efficiency from methylene urea and other temperaturedependent fertilizers. Urea and IBDU are fertilizers that are independent of temperature for nitrogen release and, therefore, make for excellent late-season nitrogen sources. IBDU, having a slow-release characteristic, will not cause surge growth even if misapplied (e.g. too early) in the late-season program. Nitrogen is a key component of turfgrass fertilization programs. It has an influence on both the morphology and physiology of the turf plant. High quality turf exhibiting acceptable green color and density requires periodic applications of nitrogen. Nitrogen, however, is frequently referred to as the "TNT" of turfgrass fertilizations programs. It can be just as detrimental as beneficial if it is mismanaged. Physiologically, the turf manager must maintain a good carbohydrate reserve. Proper timing and rate of application are important in successful long-term programs. Always remember: greener is not always better. A happy medium must be reached between agronomics and aesthetics.

PAR EX and IBDU⁺ are more quality products of Estech, Inc., Professional Products Division, PO, Box 208, Bartow, FL 33830, PAR EX and IBDU⁺ are registered trademarks of Estech. Inc.



VIGORO INDUSTRIES, INC. PROFESSIONAL PRODUCTS DIVISION P.O. Box 512 • Winter Haven, Fiorida 33882-0512

TECHNICAL DATA

Par Ex[®] Professional Products has compiled this technical data sheet to describle our product and its characteristics, to assist the user in determining the actual usage for maximum turf response.

PAR EX 14-19-19 w/IBDU®

SPECIAL STARTER/HYDROSEED MIX

GUARANTEED ANALYSIS

TOTAL NITROGEN (N) 14.00%	
4.67% Ammoniacal Nitrogen 0.93% Urea Nitrogen	
8.40% Water Insoluble Nitrogen	
AVAILABLE PHOSPHORIC ACID (P205) 19.00%	
SOLUBLE POTASH (K ₂ 0) 19.00%	
Derived from isobutylidene diurea, ammoniated phosphates, triple super-phosphate, and muriated potash.	

Potential acidity 800 lbs., Calcium Carbonate equivalent per ton.

PAR EX[®] and IBADU[®] are registered trademarks of Estech Branded Fertilizers, Inc.

Q	ricultural lime. As shown in the figure below, fine- ness of the individual timestone particle determines how rapidly a soil pH change is brought about.	Table to the set of th
winum. reduces educes educes by crop by crop contraction cont	N M M	IRON BORON BORON BORON COPPER AND ZINC Dony a soil test can determine the amount of lime needed to neutralize soil acidity. The standard soil pH test will only indicate whether or not time may be needed, but not how much lime is needed. There- fore, the soil test must include a time requirement test to determine the needed quantity of lime. Many state and commercial soil testing laboratories can determine the lime requirement of a soil. Soil pH value alone is not sufficient. A clay soil can require as much as three times the amount of lime as a sandy soil with the same pH. Don't guess. Soil test! MAT IS CALPRIL? CALPRIL is made of limestone crushed to a very fine powder (100% will pass a 30-mesh screen; which is then 35% will pass a 100-mesh screen which is then 35% will pass a 100-mesh screen which is then
 WHAT IS Li / Lime is the term used for crushed limestone. The limestone is mined as rock and is crushed mechanically to varying degrees of fineness. In most cases, lime is comprised primarily of calcium carbonate (CaC0₃), also called calcile. Some limestones may contain relatively high (5-12 percent) amounts of magnesium carbonate (MgC0₃) as well as CaC0₃. These materials are called dolomites. Dolomite should only be used in situations where soil analysis has shown a definite need for magnesium. WHY IS LIME NEEDED IN AGRICULTURE? Soils most generally become acidic (acid) as a result of organic matter decomposition and/or by the addition of ammoniacat (NH₄) nitrogen fertilizers. The hydrogen ions produced by these processes displace calcium, magnesium, and potassium from the surfaces of the soil particles. These free salls are then leached from the upper regions of the 	soil profile by water moving downward through the soil. As the concentration of hydrogen ions in the soil increases, the soil acidity increases. Soil acidity is expressed as soil pH; the lower the soil pH, the	greater the soil acidiy. As soils become more acid, the availability of nutrients essential for crop plant growth changes dramatically. Phosphorus is maximally available as soil pH 6.5. Decreasing soil pH to 5.5 reduces available phosphorus to 50 percent. Available molyddenum is markedly reduced. Calcium availa- bility may be severely restricted from some crops. Copper, iron, boron, and zinc become more availa- ble at lower soil pH values. At pH values below 5.5, available manganese and aluminum may build to toxic levels. The bacteria which convert ammonium nitrogen to nitrate form can function best at soil pH values above 6.0. Decreasing soil pH diminishes activity of these beneficial bacteria. Lower soil pH values will also suppress the activity of nitrogen- tixing bacteria living in symbiosis with legumes. Many disease-causing fungi are more active in soils with lower pH values. The addition of time to soil to improve fertility has been practiced since the time of the Roman Empire. However, Edmund Ruffin, a Virginia farmer- scientist from 1824 to 1845, may have been the first person to apply time to the soil specifically to correct a condition, which he said was soil acidity.

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Soil Conservation Service 1708 Allen Street Kelso, Wa. 98626

United States

onculture

Department of

July 11, 1986

W.K. Robertson International Paper Co. P.O. Box 160707 Mobile, Alabama 36616

Re: The restoration of the yard site in Longview, Wa.

Recommended seeding mixture:

15 lbs. of creeping red fescue

3 lbs. of "Durar" hard fescue

3 lbs. of white dutch clover

Harrow the site about three times to get a ¹/₄ to 1 inch fine surface. Use a broadcast seeder and broadcast evenly making two passes at right angles to each other. Harrow the field lightly after seeding.

With sprinkle irrigation available try to have the area seeded by September 15. and then lightly water 2 to 3 times a week until the grass comes up. Then water lightly at least once a week until the end of October. By then the rain should be frequent enough to carry it through.

Place 24 feet of fill material over plastic liner. Fill material should be made up of 4 dredge spoil and 4 silt loam or silty clay loam. Ostrander Rock and Construction Company 6150 Ocean Beach Highway, Longview, Wa. 98632 Ph (206) 636-4430 currently has a lot of overburden which would be ideal to mix with the dredge spoil for the fill material. You can mix the two materials adequately by dumping one load of each and moving it onto the site with a dozer. This should adequately take care of the site.

Sincerely,

inen I. Scott

Duane Scott District Conservationist



The Sol Conservation Service is an agency of the Decartment of Agnculture

APPENDIX H

FENCING DOCUMENTATION

810352: 5-11-90

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	Ň	EVERGREEN STA 8905 N.E. VANCOUVER, WASI (206) 25	39th Ave. HINGTON 98665	
PROPOSAL SUBMITTEE Gibbs	3 & Olson, Inc.		HONE 425-0991	Date 12-14-1989
STREET P.O.	Box 400	· · · · · · · · · · · · · · · · · · ·	DB NAME	
CITY, STATE AND ZIP	view, Washington		nternational P. ner	r Plant
ARCHITECT		DATE OF PLANS		JOB PHOHE
We hereby submit	specifications and estimates for	<u>l</u>		
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and conditions	s are satisfactory and are hereb	y accepted. You are authorized	Signature	
to do the work	as specified. Payment will be m	age as outlined above.	Signature	
Date of Accep	tance:		د.:++1 ;= المات ٢٠-٢٢ [Cl1 ; = ٤٢ - ٤٥٥، ٤٢٢ 6130	