

Town of Mechanic Falls

Operation and Maintenance Manual

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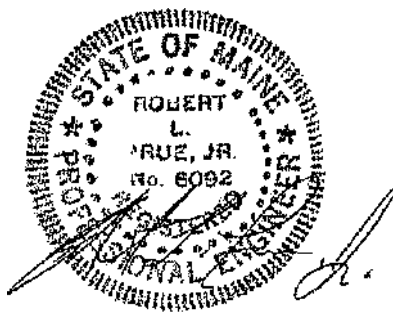
**Transfer Station &
Construction/Demolition Debris Landfill**

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February 2005
Project No. 01006

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SECTION 1 INTRODUCTION

A. Purpose and Use of Manual

This manual identifies current policies and procedures regarding the operation of the Pigeon Hill Transfer Station and the Construction/Demolition Debris (CDD) Landfill in Mechanic Falls, Maine. Its purpose is to define practices and requirements mandated by the Maine Department of Environmental Protection (DEP) that must be observed for ordinary and successful management of the facility. Facility personnel should keep a copy at the transfer station office. All personnel assigned to the operation or supervision of this facility should be aware of the contents of this manual and of each of their respective roles in the operation of this facility.

This manual is organized into thirteen sections, two of which are specific operational sections. The first of these pertains only to the transfer station, and the second to the CDD landfill. The rest of the manual, Sections 4-13 (except for Section 6 concerning the CDD landfill only) consist of joint sections that pertain to both the transfer station and the CDD landfill. Any policies or regulations in these latter sections that are specific to one facility will be indicated.

This manual will be reviewed annually and updated if necessary.

B. General Information

The Pigeon Hill transfer station is located on Route 26 (Pigeon Hill Road) in Mechanic Falls, Maine.

The facility consists of three buildings: a transfer station, a garage, and a swap shed. The CDD landfill is located southwest of the transfer station on the same property. The CDD landfill was licensed by the DEP on January 23, 1992. The facility consists of seven primary components: (1) a recycling area, (2) a municipal solid waste (MSW) compactor area, (3) a construction and demolition debris landfill, (4) gravel pads for leaves, tires and scrap metal, and (5) inert fill area.

The transfer station currently operates year round on the following weekly schedule: Wednesday and Thursday (1-6 PM), Saturday (8 AM — 5 PM) and Sunday (8 AM — 4 PM).

The transfer station and CDD landfill are owned and operated by the Town of Mechanic Falls, under the supervision of the transfer station manager who reports directly to the Town Manager. The functions of the transfer station manager are assumed by the Public Works Director. The Town assumes the responsibility of ensuring that the facility and site are properly maintained and operated. The position of the transfer station manager has been established to manage the operations of the facility in accordance with this manual. In addition, the manager shall maintain a set of records for cost estimating and planning purposes.

SECTION 2

TRANSFER STATION OPERATION

A. Public Use Procedures

1. Users and Waste Origin: The transfer station accepts wastes directly generated by residential and small commercial establishments (less than 2 cubic yards generated per week) located in the Town of Mechanic Falls.
2. Facility users include all residents from the Town of Mechanic Falls. Mechanic Falls property owners who are not residents are allowed to use the facility with a permit, as long as debris delivered to the facility originated from a residence within the Town's geographical borders. Temporary permits are also issued to contractors who are doing renovations and additions of permitted projects. The Town has mandatory recycling with the use of clear or semi-clear bags required.
3. Permit procedures: Residents, property owners and private firms providing trash collection with the town must obtain a permit from the Town Office, located at 108 Lewiston Street. A sticker must be presented in order to utilize the facility. Seasonal residents must also obtain a permit.

B. Access Control

The Town of Mechanic Falls shall continue to provide an entrance gate for the transfer station access road to limit unauthorized access to the site. The gate shall be open only when the transfer station manager, attendants or operators are on duty and capable of overseeing facility users. The gate shall be closed and locked at all other times. The hours of operation for the facility shall be posted near the entrance gate. The Town also shall maintain the current access road in good repair.

Traffic flow at the transfer and recycling station shall be one-way, in a counter-clockwise direction. Vehicles should first approach the station where they can off-load recyclable materials, then their loads can be inspected and MSW can be dumped into the compactor. The operator can then direct the vehicles to the CDD landfill, inert fill area, leaf pad, tire pad or scrap metal/white goods pad. The traffic pattern and any subsequent changes shall be posted on site and clearly visible to motorists. Vehicles approaching the facility should stop for the attendant on duty to check for a permit and for potentially hazardous materials.

C. Acceptable Wastes

Only those wastes specifically permitted by the DEP may be accepted at the transfer station. MSW is defined as useless, unwanted and discarded solid material with insufficient liquid content to be free flowing. Recyclable materials or materials that can be reused are also collected at the facility. These materials include, but are not limited to: newspaper, clear glass, #2 HDPE plastics, tin cans, cardboard, brown paper bags, and any other materials determined by the Town. Reclaimable materials are typically larger materials, some of which must be stored at the CDD landfill. The facility handles the following types of reclaimable materials:

1. Tires (with rims removed) - Tire storage areas exceeding 625 square feet must be isolated through the use of 25 foot wide mineral soil firebreaks as specified in Chapter 402.4.C.7 of the MSWM regulations.
2. Brush and leaves.
3. White goods including stoves, refrigerators, dryers, washing machines, freezers, dishwashers, hot water tanks, air conditioners, etc. The metals removal contractor or other licensed technician at the transfer station site must remove any items that contain CFC's and capacitors. Transfer station employees or residents should not attempt to remove these materials themselves.
4. Metal goods such as bikes, metal doors, window frames, metal pipes, cyclone or other metal fences, screens, wire cables, tools, miscellaneous scrap metal and propane tanks or cylinders which are empty with valves open.
5. Universal Wastes - Rechargeable batteries, cathodic ray tubes (CRTs), and fluorescent light bulbs are collected and stored in designated containers.

D. Unacceptable Wastes

Unacceptable materials include items that disrupt or impair normal operations at the transfer station or that are prohibited by the DEP. Unacceptable materials include the following:

1. Roadway construction materials including, but not limited to: roots, rocks, soil, and other waste associated with this type of activity.
2. Liquid waste or sludge including septic sludge.
3. Aerosol cans.
4. Special waste (see Section 10).
5. Hazardous waste, except for small quantities of household hazardous waste mixed with general refuse, defined as waste with inherent properties that make it dangerous to manage by ordinary means, including but not limited to: chemicals, explosives, pathological wastes, biological wastes, radioactive wastes, toxic wastes and other wastes defines as hazardous by the State of Maine or the Resource Conservation and Recovery Act of 1976, as amended, or other federal, state, or local laws, regulations, orders or other actions promulgated with respect thereto. Please refer to Section 9 for the Hazardous & Special Waste Handling and Exclusion Plan.

- 6 Stumps.
- 7 Dead animals or portions thereof.
8. Water treatment residues.
9. Contaminated soil.
10. Sewage treatment plant, paper mill, or tannery sludges.
11. Agricultural wastes.
12. Liquid wastes.
13. Unused or junk automobile or similar vehicles such as, but not limited to, trucks, tractors, etc.
14. Full, partially full or empty freon tanks.
15. Electrical transformers.
16. P o i s o n .
17. A c i d s .
18. Infected materials.
19. S e p t a g e ,
20. Asbestos and asbestos containing wastes.
21. Hospital wastes.
22. Dredge spoils.
23. Sand blasting grit.
24. Industrial process wastes, including fly ash and bottom ash.
25. PCBs: without exception, no appliances containing capacitors nor fluorescent light fixtures containing ballasts will be accepted unless all capacitors or ballasts (whether or not they have PCBs) have been removed and inspected by the transfer station manager prior to disposal.
26. Any solid waste not generated within municipal limits of the Town of Mechanic Falls except when the Town agrees by contract to receive waste from other municipal entities.
27. Any other item or material which, by its nature, is determined to be unacceptable by the Town or State Solid Waste Management Regulations.

The responsibility of identifying unacceptable waste lies with all facility personnel. All incoming waste should be identified as having originated in the Town of Mechanic Falls or other sources specifically authorized by the Town. Vehicles that do not display a valid permit will be refused. Only acceptable wastes as outlined in this manual shall be accepted. If there is any question as to whether a waste is acceptable the waste will be rejected. Any further question of acceptability should be directed to the transfer station manager or the Town Manager. For information specific to hazardous wastes please refer to Section 10.

E Handling MSW and Recyclables

The transfer station has been designed for residents to easily drop off their MSW and recyclables. All users should unload their compactible MSW into the compactor. MSW stored in the open-top bins are removed from the facility and transported to a landfill.

Residents should deposit and sort recyclables into the respective designated containers. The materials will then be prepared for shipping and stored either inside the building or in the transfer trailers outside the building. The types of materials collected by the Town for recycling are likely to change periodically depending on market conditions.

E Handling Other Wastes

Other acceptable wastes shall be received at the transfer station in their designated unloading areas on site. Some of these wastes require special handling procedures. Special provisions are necessary for white goods and PCBs. The transfer station manager shall conduct an inspection of such materials based on the following criteria:

1. All capacitors labeled as containing no PCBs may be disposed of with white goods.
2. All unlabeled capacitors and capacitors labeled as containing PCBs shall be treated as hazardous waste and shall not be accepted at the facility (refer to Section 10).
3. All appliances and fluorescent light fixtures shall be inspected by facility personnel to verify removal or non-existence of any or all capacitors or ballasts, which may then be deposited in the white goods area if free of PCBs. It shall be the responsibility of each party wishing to dispose of any appliance to free any covers from the motor housing of each appliance, thus permitting the facility personnel to have an unimpeded view of the area where capacitors are commonly found. Similarly, any party wishing to dispose of fluorescent light fixtures shall expose the location of any ballast, which have been removed to allow facility personnel to inspect the fixtures.

Clean painted and unpainted wood in addition to brush is stockpiled in the designated areas.

G Wood Handling Burn Operations

Open burning of brush, land clearing debris, wood waste, and wood from construction and demolition is not permitted.

SECTION 3

CDD LANDFILL OPERATION

A. Receiving & Transferring Wastes

Under normal operations, all citizens bringing waste to the landfill must check in with the transfer station manager or an attendant and continue to the CDD landfill. Residents of the Town of Mechanic Falls may leave wastes in the designated storage area whenever the transfer station is open to the public.

B. Acceptable Waste

Construction/Demolition Debris

"Construction or demolition debris" means solid waste resulting from construction, remodeling, repair, and demolition of structures. It includes but is not limited to: building materials, discarded furniture, wall board, pipes, and metal conduits. It excludes: partially filled containers of glues, tars, solvents, resins, paints, or caulking compounds; friable asbestos; and other special wastes.

2 Land Clearing Debris

This is solid wastes resulting from the clearing of land and consisting solely of brush, soil material, and rocks.

C. Unacceptable Wastes

Household refuse, garbage, cloth, white goods, junked vehicles, and tires are not to be deposited in this landfill. It is the manager's responsibility to assure that only proper materials are deposited in the landfill. The following is a list of unacceptable wastes:

Tires and White Goods

Tires and white goods are not accepted as CDD wastes, but are handled as part of the transfer station operation.

2 Liquid Waste

Free flowing wastes including, but not limited to: sludges, septage, paint, oil, cleaning fluids, and water.

3. Special Waste

Waste from sources other than typical domestic or commercial establishments that is either not readily compatible with the waste facility, or exists in such an unusual quantity, chemical or physical state (or any combination thereof) that it impairs effective waste management or threatens public health, safety or welfare. Special wastes are unacceptable unless approved in writing by the Town of Mechanic Falls and the Department of Environmental Protection. Special wastes may include any chemical (salt, etc.) in excess of one cubic foot in volume including but not limited to: asbestos, industrial process waste, dredgings, oil spill debris, water treatment residue, wastewater treatment residue, etc.

4. Pathological Waste

Any waste that has the potential of transmitting disease, including but not limited to carrion, dead animals, hospital waste (red bag), needles, drugs, bandages, etc.

5. Hazardous Waste

Wastes, substances, or materials in any physical state designated as hazardous by the DEP. Typical hazardous wastes found in Maine include, but are not limited to: acids, caustics, waste oils, photo and X-ray chemical waste, heavy metal waste (lead, barium, chromium, selenium, silver etc.), paints, PCBs (commonly found in electrical transformers and capacitors), solvents, still bottoms, leather waste (blue hides), resins, explosives, poisons, and radioactive materials.

6. Asbestos

Both friable (pipe and boiler insulation) and non-friable (roofing, siding, and resilient floor coverings) asbestos are prohibited at the landfill.

7. Stumps

D) Lift Size and Slope

Typical landfill operation will consist of the construction of cells in accordance with the 2001 Cell Development Plan. As the placement of cells proceeds, the side slopes of the disposal area must not exceed a ratio of 3 feet horizontal to 1 foot of vertical elevation. A minimum slope of five percent must be maintained on the top of the disposal area to direct drainage to the perimeter ditches.

E) Cover Material

Whenever possible, waste earth excavation brought to the site shall be stockpiled for future use as cover material. Care must always be taken during all grading operations so as not to disturb previously placed cover.

Cover material previously stockpiled shall be applied on a daily basis between April 1 and December 30 each year. Cover is not provided during the winter months, as approved by the DEP, for safety reasons. This cover shall be placed and compacted to a minimum depth of six inches. Intermediate cover shall be placed on areas that remain undisturbed for greater than four weeks and less than six months. The intermediate cover should contain a minimum of thirty-five percent fines and should not contain stones over six inches in diameter. Stone removal is normally done by hand after spreading the material, but before backdragging. The cover should then be compacted and backdragged to encourage runoff. Intermediate cover shall be seeded and mulched. Intermediate cover shall be removed prior to additional waste placement within the area. Water must not be allowed to pond on the disposal surface or at the working face.

Any cell which will not be active for more than 6 months will receive a final cover material and will be seeded to stabilize the cover and reduce infiltration. As long as these areas are protected by weekly or intermediate cover and the delay will be less than 6 months, the final capping will be delayed so that larger areas can have the final cap applied and be mulched and seeded simultaneously.

Mulching is necessary whenever seeding takes place to protect the seeds, conserve moisture, control weeds and to prevent surface compacting or crusting. The easiest mulch to apply is hay or straw broadcast either by mulch machine or by hand. If the mulch is subject to wind removal, running over the surface with a grooved roller or other similar tool will punch the mulch into the soil enough to hold it in place.

F. Cell Development and Compaction

The CDD landfill has a projected life of 30 years. Cells are developed annually, with no more than 1/4 acre of the CDD landfill exposed at a time. Berms are constructed as part of each cell, and to control runoff and prevent erosion. The cover material is graded and compacted by bulldozer. The Cell Development Plan is contained in Appendix F.

G. Setbacks and Buffer Strips

The landfill conforms to the standards mandated by the DEP in MSWM regulations Chapter 401, Section 7D including, but not limited to:

- 1 A minimum 300 foot setback between the waste handling area and all public roads.
- 2 A minimum 100 foot setback between the solid waste boundary and the property boundary as depicted on the approved CDD landfill plans.

3. A minimum 1,000-foot setback between the solid waste boundary and the nearest residence not owned by the applicant of the time the application is filed with the department.
4. A minimum 100-foot setback between the solid waste boundary and stratified sand and gravel deposits.

H. Poor Weather Operations

Winter operation of the landfill will require special planning and scheduling considerations by the transfer station manager. During operating hours for the facility, except under severe weather conditions, the manager is to ensure that access roads are plowed and sanded. The Town shall not use sodium and/or calcium chloride road salt products. Snow is removed from the areas where waste is to be placed. Prior to, and during operating hours, snow has to be removed before demolition debris material is placed. Snow should also be removed from the top of the entire active and open disposal area prior to the spring thaw.

During wet weather or in the spring season when the covered demolition debris material disposal area is muddy, heavy equipment should not travel on the covered portions to dump wastes. Instead, wastes should be deposited close to the temporary access road (within the licensed footprint of the landfill) until the surface dries out.

I. Inspections

The transfer station manager shall schedule or otherwise provide for inspections of the facility on a monthly basis using the reporting form shown in Appendix E. In addition, The Town of Mechanic Falls will have inspection reports completed by the consultant hired to conduct the water quality monitoring program. The consultant will document his/her inspections and report them with the water quality reports. The reports will be kept on file for three years and made available upon request. Inspections will include the following in accordance with MSWM regulations, Chapter 401, Section 7.H.11:

1. Documentation that erosion and sedimentation control measures and the stormwater management systems are performing as designed.
2. Documentation that the waste and cover system grades and placement are in accordance with the approved cell development plan.
3. Documentation of any deviation from approved plans or specifications.
4. Condition of access road.
5. Condition of hay bates/silt fencing, if present, and the sediment accumulated behind them, if any.

J Maintenance

The following maintenance activities shall be completed on a needed basis, or sooner, as a result of inspection reports:

- 1 Maintenance of temporary or permanent cover material and vegetative growth in disposal cell(s).
2. Any and all stormwater ditches must be cleaned and free of debris.
3. Grading of access road.

SECTION 4

PERSONNEL AND RESPONSIBILITIES

At least four parties are involved in the operation of the transfer station and the CDD the Town of Mechanic Falls, Department of Environmental Protection, transfer station manager, and site attendants. The responsibilities of each party with respect to the facility are delineated below:

A. Town of Mechanic Falls

It is the responsibility of the Town of Mechanic Falls to provide its citizens with a means to dispose their MSW, recyclables and construction/demolition debris in compliance with current regulations including chapter 401 of the Maine Solid Waste Management Regulations (MSWM). As in the past, the Town will continue to be responsible for policy decisions, contractual agreements, maintenance, accounting and other operations pertinent to the management of the facility. In addition, the Town must support the transfer station manager, particularly when enforcement action is required. The support is necessary for an well-operated and maintained facility.

B. Department of Environmental Protection (DEP)

The DEP is responsible for assistance, inspection, and enforcement of solid waste management laws and regulations. DEP maintains staff who is knowledgeable in the operation of solid waste facilities. They can provide advice and literature on many facets of this type of operation. In addition to assistance, DEP will inspect the facilities on a regular basis to ensure that operations are in conformance with current laws and regulations. Appendix A lists the addresses and telephone numbers of offices that may be contacted for further assistance.

C. Transfer Station Manager

The transfer station manager is the key position of the entire operation. It is the manager's responsibility to ensure that the facility is operating properly and is in compliance with current laws and regulations. The manager is an employee of the Town. The manager's primary responsibilities are:

- I Oversee waste disposal at the facility to ensure that the public is promptly served and has a relatively clean area to deposit their wastes. Maintaining good public relations is perhaps the most important duty of the manager.
- 2 Maintain smooth traffic flows in and out of the facility.

3. Supervise all full/part time assistants, laborers, and operators. Assign duties, prepare work schedules, and be responsible for actions or inaction of employees under his/her control.
4. Submit monthly records to the Town Manager which includes the items listed in Section 11, Part A. (See also Appendix E.)
5. Be responsible for safety and security on the site.
6. Ensure that maintenance is performed at the transfer station and CDD landfill, and on Town-owned equipment operated on-site.
7. Be responsible for litter control on the site.
8. Maintain necessary records, diaries, and time sheets as required by the Town, DEP and this manual.
9. Perform all other duties related to the transfer station and CDD landfill operation and maintenance as assigned by the Town Manager.
10. Prepare and submit annual budgets for operation and maintenance of the transfer station and CDD landfill
11. Train and inform the site employees
12. Take the reasonable steps to ensure that all wastes disposed at the facility originate in the Town of Mechanic Falls.
13. With assistance and support from the Town Manager, be responsible for the enforcement of the Town of Mechanic Falls Solid Waste Disposal Ordinance presented in Appendix B. The Town of Mechanic Falls will support the manager when corrective or enforcement action must be taken. In order to be effective the manager must insist on both the authorization and support from Town officials.
14. Adhere to this manual and the information, regulations and suggestions included within.

D. Transfer Station Attendants

The attendant's duties include checking permits, assisting the public with questions and procedures, operating necessary equipment to stockpile CDD landfill cover material, applying intermediate and final cover over the landfill, and conducting other tasks assigned by the transfer station manager. It is important for the attendants to maintain good relations with the public. In addition, the equipment operator must be familiar with heavy equipment (A bulldozer and an old "yard dog" truck) operation, have a general knowledge of earthwork and road construction, have an ability to perform routine maintenance, and make minor repairs to equipment.

SECTION 5 EQUIPMENT & MAINTENANCE

A roll-off can on a compactor is used to receive and transport general refuse (MSW). The container is watertight and compacted with a hydraulic ram. A bulldozer is stored on-site and is used for covering the CDD landfill. A "yard-dog" truck is available for moving the compactor and cans while awaiting the hauler. The Town also owns waterproof (roofed) roll-off cans for the recycling area.

Proper maintenance is the backbone of any successful operation. Preventive maintenance shall be performed on the overall site, roadways and equipment. Roadways shall be kept well graded to allow proper drainage and to prevent potholes and other hazards to the public. It is important to remember that drainage from roadways and storage or disposal areas should be removed from the area as quickly as possible. Facility personnel or the Town Highway Department will maintain equipment owned by the Town of Mechanic Falls.

Site maintenance is essential. At the CDD landfill it is imperative that the final cover be maintained. This includes monitoring for erosion, ponding of water, and areas not properly seeded. The site must be checked for these and similar conditions and, if found, corrected immediately.

Miscellaneous hand tools must be available on site to keep the transfer station and the CDD landfill free from litter, dirt, spills, etc. At a minimum, the following maintenance equipment must be available on site.

<u>ITEM</u>	<u>QUANTITY</u>
Fire fighting broom	2
Combination fire rake/hoe	1
Snow shovel	1
Spade	1

SECTION 6

CDD LANDFILL EROSION & STORMWATER CONTROL

Erosion control will be provided through the use of seeding for various conditions and seasons, and ditching of runoff from the CDD landfill area. Hay bales and/or silt fencing will be used in the perimeter ditches as required to control erosion until suitable vegetation is established. After September 15th all disturbed areas shall be seeded with winter rye. Seeding operations will not be performed after October 1st however. Reseeding will be performed as necessary the following spring, and thereafter as determined by routine inspections.

If, for any reason, normal seeding operations are delayed beyond the appropriate time period, an acceptable method of soil stabilization will be employed during the interim period. The unseeded area will be covered with suitable mulch material such as hay or straw covering 75 to 90 percent of the area in question. This is necessary to prevent any extraneous regrading operations. In extremely erosive situations 'due to wind and/or water action, it will be necessary to anchor mulch material with twine, netting or excelsior blanket, or rolling the area with a grooved roller in accordance with Soil Conservation Service recommendations.

Seeding operations should be done on as large an area as possible following the requirements described above. Problem areas and continually eroding areas should be immediately repaired and protected with riprap or erosion control mesh.

The areas of the landfill which have a final cover as part of the closure will also be inspected for areas of erosion, and these areas shall be recovered and seeded. Hay mulch shall be placed in problematic areas.

Stormwater will be managed in the manner described in Chapter 400, Section 4M of the MSWM Regulations. Drainage ditches should be cleaned and maintained as necessary.

SECTION 7 LITTER CONTROL

Proper operation of the transfer station and the CDD landfill requires the site and adjacent access roadways be kept free from litter and debris. It is important to remember that public acceptance and satisfaction with the overall operation of the facility is essential.

Invariably, persons bringing waste to the site will lose items from their loads--paper, brush, etc.--and will fail to pick them up. This often causes complaints, especially by those property owners adjacent to the site. Persons hauling the waste must be directed to pick up litter for which they are responsible. It is the supervisor's responsibility to periodically police the on-site areas and remove litter which may be accumulating and assure that the areas remain clean.

SECTION 8 DUST CONTROL AND ODOR CONTROL

Employees shall undertake suitable measures to control dust and odors emanating from the facility. Oil or excessive water is prohibited for the purpose of controlling dust. Paved areas will be swept to minimize dust problems. Due to the type of non-putrescible waste that will be disposed in the CDD landfill, odors will not be a problem at that facility.

SECTION 9 SAFETY

A. General

Always remember: WORK SAFELY! Safety is everyone's responsibility. The landfill must be operated in a manner that promotes the health and general well-being of both the personnel working at the facility and those using the facility. Generally speaking, good common sense and alert personnel will promote safety and prevent accidents.

The Town of Mechanic Falls and its employees are subject to, and must comply with, the regulations of the Occupational Safety and Health Act (OSHA). The transfer station manager shall ensure that the facility conforms to the current regulations. If there are questions concerning OSHA, the manager should bring this to the attention of the Town Manager.

Be Safety Rules

The following general safety rules should be observed by both facilities. All personnel should become fully familiar with these general rules and should be encouraged to work safely at all times.

1. REMAIN ALERT AND USE GOOD COMMON SENSE.
2. No person should be required or allowed to work in surroundings that could be considered dangerous.
3. Do not allow unauthorized or untrained persons to use equipment.
4. All equipment used on site should be equipped with back-up warning systems.
5. Do not allow the public to salvage items.
6. When piling or grading wastes, isolate the work area from the area receiving wastes; do not work equipment around the public.
7. Do not allow the public to loiter in or around the site
8. A first aid kit should be kept on site in a convenient and easily accessible location. It should be fully stocked at all times.
9. Fresh water is available for eye-wash.
10. 5 mph speed limit within the facility.
11. Children must remain in vehicles as posted.
12. Railing shall remain around hopper platform at all times.
13. At a minimum, the following list of safety equipment shall be kept on site when the landfill is operating:
 - a. Fire-fighting light with charger and replacement lens.
 - b. Two hard hats with replacement suspension and earmuffs.
 - c. Emergency first aid kit for 5 — 10 people.
 - d. Two hard hat goggles.
 - e. Work gloves.

SECTION 10

HAZARDOUS & SPECIAL WASTE HANDLING
AND EXCLUSION PLAN

A. Facility Safety Officer

The Town Manager shall be designated as the "Facility Safety Officer". The Facility Safety Officer shall work annually with the Mechanic Falls Fire Chief to provide training to the attendant(s) on the following:

1. Detection of hazardous and special waste
2. Appropriate notification procedures
3. Appropriate handling procedures

B. Identification/ Notification of Unpermitted Wastes

Unpermitted hazardous and special wastes shall not be accepted at the transfer station or CDD landfill. To ensure this, the attendant shall check all waste being deposited at the drop-off areas at the transfer station. The type of container and origin of the waste can help to identify hazardous and special wastes. The following list will aid the identification and handling of concerned materials:

1. Asbestos: Neither friable nor non-friable asbestos is accepted at this facility. (See Section I, Title F Part 6 for additional description). If either type of asbestos should arrive at the facility, attendants should take special care not to disturb the material such that it could pose a potential health threat.
2. Biomedical Wastes: May be red bag wastes from hospitals, laboratories, clinics, nursing homes and occasionally doctor's offices. This includes blood, body parts, disposable instruments, linens and other soiled materials. Keep people away from such waste. Follow hazardous waste procedure, including notifying the appropriate responder, either the fire department or the DEP. If this waste is accidentally contacted, disinfect the area with 1:3 bleach to water solution.
- 3 Calcium Hypochlorite: This chemical is used for disinfecting swimming pools but is reactive when wet. It can release chlorine gas and cause fire when wetted. Treat as hazardous; prevent wetting or contact with moisture; if wetted, evacuate the area. Keep away from petroleum or other organic materials.
- 4 Electrical Capacitors and Transformers: May be removed from white goods and other electrical equipment by individuals, scrap metal firms, or firms which work on appliances or motors. Avoid skin contact and breathing exposure; follow hazardous waste procedures.

5. Industrial Chemicals: Generally, liquid in five gallon (or larger) pails or drums of either plastic or steel. Occasionally lined cardboard barrels are used. Also some solids, especially flakes or granular materials, can cause excessive corrosion or can be reactive with liquids. Solids may be in any form of container including loose. Avoid skin contact and breathing exposure and treat as hazardous.

Laboratory Chemicals: Usually in smaller containers of one pint to one gallon, glass or plastic bottles. Can be severe irritants, highly toxic or explosive. Avoid skin contact and breathing exposure; do not open jar containers. Treat as hazardous.

7. Sandblast Grit: Generally fine sand or garnet mixed with paint, brick and/or masonry chips. Avoid breathing; handle as a special waste.

C. Finding and Reacting to an Unknown Waste

When unknown material is found at the transfer station or CDD landfill, the attendant shall identify the material to determine whether it is licensed solid waste, special waste or hazardous waste. If hazardous waste, the attendant shall attempt to identify the person who has left, delivered, or attempted to deliver the hazardous waste and contact the DEP. While keeping a safe distance upwind from the material, the attendant may attempt to determine the following, if safe to do so:

1. Look for the container or waste labeling.
2. Determine the physical state of the material (solid , liquid or gas).
3. Estimate the container size or amount of waste.
4. Determine the type and condition of the container or packaging.

If the material is determined to be potentially hazardous, the attendant shall:

1. Evaluate and secure the area of the facility site around the material.
2. If safely feasible, determine if there is any release of the material to the soil, water, or air.
3. If safely feasible, determine if any release found has been confirmed or is ongoing.
4. Undertake the appropriate notification procedure below.

D. Notification

1. When hazardous waste, or suspected hazardous waste is found left in the drop-off areas of the transfer station, the attendant shall notify the DEP anytime at 1-800-482-0777 or the Maine State Police at 1-800-452-4664. If the attendant knows that the fire department has received training and is qualified to handle hazardous materials, notify the fire department at 911, or at 345-9896.

2. When unpermitted special waste is found at drop-off areas of the transfer station, the attendant shall notify solid waste personnel at the DEP regional office (between 8 AM and 5 PM Monday through Friday) and the appropriate municipal official to authorize qualified removal.
3. If the attendant cannot identify the material, notify the Mechanic Falls Fire Department and DEP at the numbers listed above or assistance and identification. If sampling and further detection of hazardous waste is required, a qualified hazardous waste handling firm or solid waste contractor must be used as appropriate.

E. Clean-up/Decontamination

Only trained personnel shall handle hazardous wastes. Such training shall follow the guidelines of 29 CFR Part 1910.120,

2. Unpermitted special wastes shall be removed from the area where found and transported within 60 days to a special waste disposal facility licensed to accept that special waste.
3. A hazardous and special waste interim storage area will be designated on-site. Because hazardous wastes require special training to handle, and to minimize the area of potential contamination, it is recommended that any hazardous waste found at the landfill be removed directly by qualified personnel from the landfill without placement or storage in the interim storage area. The hazardous and special waste interim storage area is located in the secure barn-like structure.

F. Emergency Information

The attendant shall have the following telephone numbers available at the transfer station office for notification to the dispatchers:

1. DEP, Bureau of Remediation & Waste Management regional office: 287-2651 (during normal business hours). DEP emergency spill: 1-800-482-0777 (for after hours or on weekends).
2. Mechanic Falls Fire Department: 911
3. Androscoggin County Sheriff 784-7361
4. Ambulance: 911
5. Maine State Police: 1-800-452-4664 (for reporting hazardous waste)
6. Maine Poison Center: 1-800-442-6305

The closest location for emergency medical care is Stephens Memorial Hospital in Norway. You get there by taking Route 26 west to Norway, turn left onto Main Street.

A written report shall be filed with the DEP, Bureau of Remediation & Waste Management within 15 days of any incident involving hazardous waste or material. The report must indicate the following:

1. Date and time of incident.
2. Location.
3. Material Lost or Spilled & amount lost or spilled.
4. Amount recovered.
5. Cause of the incident.
6. Corrective action taken & clean-up methods used.
7. Disposition of recovered material
8. List the agencies notified.
9. Time that the agencies responded to the site.

SECTION 11

FIRE PROTECTION AND PREVENTION

A. General

Fire protection and prevention at the transfer station and CDD landfill is absolutely necessary. The transfer station manager and other personnel on site must be constantly on guard against fires and be trained and prepared to respond quickly to assure damage does not result. It is the manager's responsibility to become familiar with and instruct his assistants in fire control procedures. The manager should have the Mechanic Falls Fire Chief periodically brief the transfer station personnel on procedures they should follow in the event of a fire.

B. Fire Control Rules

The transfer station should be equipped with portable dry chemical ABC fire extinguishers, which can be kept in a vehicle and on-site buildings. Should a fire occur at the CDD landfill, this equipment can be transported to the landfill. The following list of fire control rules shall be observed:

If a fire develops call the fire department immediately. Notify the fire chief of the location and material(s) on fire.

2. Sufficient equipment for minor fires, such as detachable fire extinguishers, must be kept on site and maintained in working order.
3. Orient all personnel on fire extinguishing and fire control procedures.
4. Be familiar with composition of materials stored on site, and notify the fire chief of the composition of those materials.
5. Do not allow matches, hot cigarette butts, etc. to be thrown into the transfer station or CDD landfill storage areas.
6. Post NO SMOKING signs around certain areas of the property.
7. Maintain a soil stockpile sufficient to suppress fires.
- S Observe the current applicable rules of the State of Maine Bureau of Forestry, Department of Conservation. A 10-foot wide brush-free perimeter shall be maintained.

B. Open Burning

Open burning of wastes is not permitted at the transfer station.

SECTION 12 SECURITY

Security of the site is essential to minimize vandalism, property damage, and accidents. The Mechanic Falls Fire Department, Police Department, and Town Manager should be the only people with keys to the facility besides the facility personnel.

During the closed hours the gate should be closed and locked, and arrangements made to have the police check the site on a regular basis. An operator will always be on site during open hours. The public should not be allowed to loiter anywhere on the site. Scavengers, dump pickers, and children unaccompanied by a parent should not be allowed. The site will be posted for no trespassing and as a dangerous area, particularly for snowmobiles.

SECTION 13 RECORDS

A. Operating Records

Keeping accurate records is an important duty of the transfer station manager. The manager shall keep a record of operational information for the transfer station and the active life of the CDD landfill, and must keep these records on file during the post-closure period. A one-page form (Appendix E) must be kept on file that contains operational and inspection information detailed in the list below, as mandated by the DEP:

1. The type, quantity and origin of waste received.
2. The equipment, compaction methods, and cover used.
3. The portion of the landfill used.
4. Any deviations made from the approved plans and specifications.
5. Reports from the monitoring program.
6. Accident reports.
7. F i r e s .
8. Equipment breakdown that caused significant operational problems.
9. Inspection records (see Section III Part I).

B. Fiscal Management

The Town Manager will maintain a complete set of records for planning and budgeting purposes. Records of the quantities and types of wastes received at the facility and any revenues generated as a result of the sale of recyclable or reclaimable material should be kept.

C. Annual Report

Pursuant to 38 MRSA 1310-N, (6-D) and MSWM Regulations Chapter 402 Section 5, an annual report must be submitted to the DEP by April 30 each year. The transfer station and CDD reports may be combined (effective May 2000). This combined report must include the following:

- 1 General
 - a A summary of activity at the facilities during the past year. This shall include a narrative describing any factors, either at the transfer station or the CDD landfill or elsewhere, that affected the operation or design of either facility or the environmental monitoring program of the CDD

- b. An evaluation of the transfer station and CDD landfill's operations to verify compliance with the approved operations manual, licenses and regulatory requirements. This evaluation shall be performed either by qualified facility personnel or a qualified consultant.

2 Operations

- a. An estimate of the use (or capacity) at the transfer station, an estimate of the use or portion of the CDD landfill used in the past year, and an estimate of the landfill's remaining capacity.
- b. Document minor changes to the operation of either facility not requiring DEP approval that have occurred during the reporting year. Future minor operating changes may also be recorded.
- c. A description and estimate of the amount of cover material used in the past year.
- d. A description of the changes in the operations manual during the past year or proposed changes to the manual.
- e. A summary of responses to spills, fire, accidents, and any other unusual events that occurred at the landfill in the past year.
- f. Updated CDD cell development plans for subsequent two-year periods, as needed, highlighting any changes to the approved plan.
- g. Copies of reports prepared in accordance with the facilities Hazardous Waste Handling and Exclusion Plan
- h. A report on the results of the facilities inspection (see Section 3, Title I.) and monitoring (see part D below) programs.
- i. If applicable, documentation of system failures and repair measures.

Copies of all Annual Reports shall be kept at Mechanic Falls Town Office during and after the use of the transfer station and CDD

D. Environmental Monitoring

An Environmental Monitoring Plan (EMP) for the CDD landfill has been prepared to monitor ground water conditions. According to this EMP, sampling of ground water will be completed three times per year. A report of the data collected and the resultant statistical analysis will be forwarded to the DEP at the same frequency of collection. At this time, DEP does not require an EMP for the transfer station.

E. Notification of Closure

The DEP shall be notified in writing a minimum of 90 days prior to the proposed date of cessation of the use of the transfer station and CDD site. Notification shall include the following:

1. Closure Performance Standard: A plan outlining the proposed closing operation. Please refer to MSWM Regulations, Chapter 402 Section S.1 for more specific information.
2. Alternative arrangements must be made for solid waste. Please refer to MSWM Regulations Chapter 402 Section S.2 for more specific information.

APPENDIX A

Sources of Assistance

SOURCES OF ASSISTANCE

Consultant

Pine Tree Engineering, Inc.
53 Front Street
Bath, ME 04530
Telephone: (207) 443-1508

Solid Waste & Hazardous Waste Disposal

Department of Environmental Protection
Bureau of Remediation & Waste Management
State House Station #17
Augusta, ME 04333
Telephone: (207) 287-2651

Rat Extermination

U.S. Fish & Wildlife Service
P.O. Box 800
Federal Building
Augusta, ME 04333
Telephone: (207) 622-6171

Fire

Mechanic Falls Fire Department
Mechanic Falls, Maine
Emergency Telephone: 911
Business Line Telephone: (207) 345-9896

Septage Disposal & Sludge Utilization

Department of Environmental Protection
Bureau of Remediation & Waste Management
State House Station #17
Augusta, ME 04333
Telephone: (207) 287-2651

APPENDIX B

Town of Mechanic Falls Solid Waste Disposal Control Ordinance

TOWN OF MECHANIC FALLS SOLID WASTE DISPOSAL CONTROL ORDINANCE

(November 15, 1989; Amended 12/5/94; Amended 11/4/96;
Amended 2/7/00; Amended 10/02/00)

SECTION 1.

This Ordinance shall be known and be cited as the "Solid Waste Disposal Control Ordinance of the Town of Mechanic Falls, Maine."

SECTION 2. PURPOSE AND AUTHORITY

1. Declaration of Policy. This Ordinance is designed to control the disposal and reuse and recycling of solid waste material in the Town of Mechanic Falls by providing for the establishment and enforcement of rules and establishing limitations and prohibitions to protect the health, safety and welfare of the citizens of Mechanic Falls and to protect the environment and natural resources of the Town.

2. Authority of this Ordinance is Maine Revised Statutes Annotated. Title 38, Section 1305.

SECTION 3. RULES FOR GOVERNING SOLID WASTE MANAGEMENT

1. The Council is hereby granted authority to establish, after public hearing, and amend operating Rules for all municipal waste collection, transfer, reuse, recycling and disposal systems and facilities. The Rules shall be reviewed and revised as required to satisfy the needs of the Municipality, State and Federal laws and regulations. The Rules shall include the operating hours of the facility. No person shall use the facility outside of the set hours of operation. Rules all be displayed at the Municipality's Solid Waste Facility and Town Office.

SECTION 4. PERMITS REQUIRED

1. The Mechanic Falls Solid Waste Facility is operated for the benefit of Mechanic Falls' residents and commercial establishments having operating facilities on property within the Town of Mechanic Falls. Admission to the facility will be by permit only. Permits will be issued, upon application to the Town Clerk. Fees for Permits shall be determined by Rules accepted pursuant to this Ordinance.

2. Permits must be displayed on vehicles to gain access to the facility.

3. Deposition of trash at locations, sites or areas within the Municipality which have not been designated as an acceptable facility or site by the Council is a violation of this Ordinance.

SECTION 5.

The use of the facility by any person shall be at the strict direction of the Attendant. No person shall violate any directives of the Attendant or Rules set forth by the Council in the use of the facility. If any person refuses to obey any of the directives or Rules, the Attendant shall have the authority to refuse access to the facility to that person until the person complies with the directives and Rules or until the Council has had the opportunity to hear the complaints.

Anyone denied access to use the facility for failure to obey the rules of the facility, either a resident or a commercial hauler, shall have the right to an appeal. Appellant shall notify the Town Manager, in writing, within 14 days of receipt of notice of revocation of his/her right to use the Solid Waste Facility, of his desire to appeal the decision to the Town Council. The Town Council shall then have no less than 21 days to schedule and notify the aggrieved party of the hearing date.

SECTION 6. HAZARDOUS AND SPECIAL WASTES PROHIBITED

1. Hazardous and Special Wastes are as designated by the Operations Manual which shall be a part of the Rules.
2. Hazardous and Special Wastes shall not be delivered, dumped or disposed at the Facility.
3. If any such waste is deposited at the Facility, the clean up and all costs associated with proper disposal shall be borne by the person responsible for the deposition.

SECTION 7. OTHER PROHIBITED WASTES

The following types of waste or refuse shall not be accepted

1. Sewage treatment plant and septic tank sludge or residues.
2. Animal waste, such as manure. Agricultural waste, such as crop residues are permissible in the Municipal Composting area only.
3. Dead animals or animal parts.

4. Car and truck frames and chassis parts, or any part of a motor vehicle which possesses or possessed petroleum based liquids/products.
5. Hazardous substance containers unless adequately cleaned and approved by the Attendant.
6. Large pressured containers.
7. Liquid or viscous wastes.

SECTION 8.

The Council has the right to:

1. Set standards on the acceptance of wastes generated by businesses which waste is not similar to General Refuse as defined herein.
2. Refuse to accept industrial wastes which waste is not similar to General Refuse.
3. Bar people from the use of the station for failure to abide by the rules and laws of the facility.

SECTION 9. RECYCLING REQUIRED

1. Solid wastes generated within the Town of Mechanic Falls shall be separated into recyclable components which components shall be recycled at a facility designated by the Council.
2. At a minimum, the following components will be separated:

newspapers	corrugated cardboard	clear glass
tin cans	# 2 plastic HDPE	
3. The Council shall have the authority to designate additional recyclable components by Rule.

SECTION 10. WASTE DEPOSITION

1. Wastes will be deposited in appropriate areas as designated in the Operations Manual, by signs on-site and by the Attendant. At a minimum, the following areas are provided for waste deposition.
 - a. recycling area
 - b. transfer station
 - c. white goods storage area

- d. tire storage area
- e. inert fill area
- f. demolition debris area
- g. stump area
- h. compost/chipping area

2. Recyclables: Recyclables shall be separated and handled according to rules.

3. General Refuse: General refuse or mixed solid waste shall be in the clear or semi-transparent plastic bags or covered metal or plastic trash cans delivered to the transfer station or other designated waste disposal area.

4. White Goods/Metals: White goods shall be piled neatly at the storage area so as not to block unused areas of the site. Doors on refrigerators and freezers shall be removed prior to placement on-site. Products shall be further segregated within the storage area as designated by signs. Metal car and truck parts, such as fenders, door panels, quarter panels, wheel rims and hoods are allowable in the scrap metal pile.

5. Tires: Tires shall be piled neatly at the storage area so as not to block unused areas of the site. Wheel rims shall be removed from all tires prior to placement on-site.

SECTION 11. FEES

The Council may establish fees by Rule for the deposition of:

- 1. White goods and/or appliances, furniture and televisions.
- 2. Other metals including exhaust systems
- 3. Automobile & Truck tires (removed from rims)
- 4. Construction and Demolition Debris

At present, fees have been established for tires, any items containing Freon (air conditioners, refrigerators, etc.), and construction and demolition debris loads in excess of the capacity held by a one-ton truck standard body.

SECTION 12. VIOLATIONS, ENFORCEMENT AND PENALTIES

1. The Police Department of the Town of Mechanic Falls shall enforce this Ordinance.
2. Any person convicted of a violation of this Ordinance or rules adopted pursuant hereto shall be subject to a fine of not less than \$100 nor more than \$500 for each occurrence.
3. The person so convicted shall also be liable for legal expenses incurred by the Town as well as costs to correct the violation.
4. People are subject to temporary or permanent revocation of the right to use the facility if they fail to abide by the rules and laws of the facility's operation.

SECTION 13. VALIDITY AND CONFLICT OF ORDINANCE

1. If any section, subsection, paragraph, sentence, clause, phrase or word of this Ordinance is found to invalid, unconstitutional or inapplicable, it shall not affect or impair the remaining provisions of this ordinance.
2. If this Ordinance conflicts with other town ordinances, then the strictest provisions shall apply.
3. Provisions of federal and state laws and rules adopted pursuant thereto shall govern if such provisions are more stringent than the provisions of this Ordinance.

SECTION 14. DEFINITIONS

1. Attendant. The person employed by the Municipality to supervise the solid waste facility and operate any necessary equipment.
2. Facility. The Town of Mechanic Falls Solid Waste Facility.
3. Hazardous Waste. Shall include any material or waste which the federal and/or state government has determined to be hazardous and which is brought to the facility.
4. Person. Shall include, but not limited to, individuals, partnerships, corporations and their agents.
5. Council. The Mechanic Falls Town Council.
6. Special Waste. Waste designated by the Maine Board of Environmental Protection as Special Wastes.

7. General Refuse or Waste. Ordinary solid wastes generated by normal household operations except (1) wastes identified by this Ordinance or (2) other wastes identified by rules which include but are not limited to goods, appliances, furniture, mattresses, tires construction and clean debris, stumps, brush, leaves and rock and masonry materials.

8. Town. Town of Mechanic Falls, Maine.

SECTION 15. EFFECTIVE DATE

The Ordinance shall take effect at the time of the adoption by the Council.

Date: January 4, 1993
Amended Nov. 7, 1994
Amended Dec. 5, 1994
Amended Feb. 7, 2000
Amended Nov. 6, 2000

MECHANIC FALLS SOLID WASTE GENERAL RULES

1. The following wastes are prohibited from the Solid Waste Management Facility.

A. Deposit of Refuse

The site attendant shall have the ultimate authority over the disposal of various types of refuse and the location of the deposition area.

- I. Prohibited Wastes: The following is a list of wastes which cannot be accepted by the Mechanic Falls Solid Waste Management Facility.

- a. Hazardous waste which for the purposes of this facility shall include substances listed by the EPA and/or DEP as hazardous waste or which are flammable, toxic, corrosive or reactive by themselves or in combination with other wastes.
- b. Hazardous substance containers unless adequately cleaned and approved by the attendant.
- c. Large pressured containers
- d. Liquid or viscous wastes
- e. Animal wastes or carcasses
- f. Car and truck frames and chassis parts, or any part of a motor vehicle which possesses or possessed petroleum-based liquids/products
- g. Asbestos
- h. Special wastes (see Solid Waste Regulations)
 - 1) oil, coal, wood and multi-fuel boiler and incinerator ash
 - 2) industrial and industrial processed waste
 - 3) wastewater treatment plant sludge, paper mill sludge and other sludge waste
 - 4) debris and residuals from non-hazardous chemical spills and cleanup of those spills
 - 5) contaminated soils and dredge spoils

- 6) asbestos and asbestos-containing waste
- 7) sand blast grit and non-liquid paint waste
- 8) high and low pH waste
- 9) spent filter media residue
- 10) shredder residue
- 11) other waste designated by the board, by rule.

2. Medical and other potentially infectious or pathogenic bio-waste is generally prohibited. Needle sticks are accepted, but only when sealed in heavy-duty #2 plastic jugs with covers taped securely on and marked " Needles - do not recycle."

2. Waste shall be separated into the following categories:

A. Wastes to be separated: Wastes requiring separation from the general refuse are listed below:

1. Scrap metal and white goods to include major metal appliances, bulky metals and small and mid sized car parts which have no petroleum based products in or on them. Items such as air conditioners and refrigerators which have had their Freon removed may be accepted, without a fee.
2. Vehicular tires (fees apply) which must have rims removed and be reasonably clean.
3. Separate brush and limbs no larger than 4 inches.
4. Separate scrap lumber and clean wood.
5. Inert fill, includes cured concrete, cinder blocks, bricks, cured bituminous concrete, stone, and similar substances which do not leach or degrade.
6. Demolition debris includes construction and demolition waste (fees for larger loads apply) such as insulation, asphalt shingles, chemically treated construction papers and other wastes. They must be reduced in size, in pieces to greater than eight feet in any one dimension. Similarly, furniture and mattresses, must be handled in the same manner.
7. Recycling as designated in Section 3.

3. The following components of solid waste shall be separated and recycled. The recyclables shall be handled as noted:
 1. Corrugated Cardboard - shall be dry, unwaxed and flattened.
 2. Newsprint - shall be dry not in bags, no glossy paper or magazines.
 3. Clear glass - No ceramics, window glass or light bulbs. Bottles shall be rinsed with metal lids and rings removed. (Labels are permissible.)
 4. HDPE Plastics - These are milk jugs, detergent bottles, and semi-rigged bottles.
 5. Tin cans - cleaned, labels removed.
4. Waste shall be deposited in the areas designated for each type.
5. The Attendant shall have final say in the deposition of all wastes. The Attendant's decision may be appealed to the Council; however, the waste in question shall not be deposited at the site until resolved by the Council.
6. The following rules are enacted to protect the health and safety of the public.
 - A. Unauthorized or untrained persons shall not use equipment.
 - B. Do not salvage items from any area.
 - C. Stay clear of moving equipment.
 - D. Unauthorized personnel shall not enter the enclosed areas of the facility.
 - E. Do not loiter in or around the site.
 - F. Young children must remain in the vehicle.
 - G. All white goods delivered to the site which have airtight doors, such as refrigerators or freezers, must have the doors removed.

Both year-round, seasonal residents and small commercial establishments within the communities served shall obtain use permits from the Town of Mechanic Falls prior to use of the facility. In order to obtain the permit, persons must show that their primary residence is within the geographic borders of the Town of Mechanic Falls, or that the debris being brought to the facility was generated at a residence within its borders. The Town may grant temporary permits to seasonal residents, or those contracted to dump

construction debris on behalf of Mechanic Falls' residents for whom they are employed.
The Town may set reasonable fees for permits.

8 Permits for residents and businesses shall be issued at a fee from January 1 to December 31 of each year, and may be subject to renewal (new stickers) from time to time as may be deemed necessary by the Town Council.

9 The hours of operation shall be:

Wednesday	1:00 p.m. to 6:00 p.m.
Thursday	1:00 p.m. to 6:00 p.m.
Saturday	8:00 a.m. to 5:00 p.m.
Sunday	8:00 a.m. to 12:00 p.m.

Revised October 3, 1994 at regular Council Meeting.

Amended Dec. 5, 1994

Amended Nov, 4, 1996

Amended Feb. 7, 2000

Amended Nov. 6, 2000

APPENDIX C

First Aid Information

FIRST AID INFORMATION

Suggested Minimum First Aid Kit:

1. Sterile gauze pads
2. Roll on bandage
3. Band-Aids, regular and non adhering
4. Adhesive tape
5. Bandage scissors
6. Sterile cotton balls
7. Roll of sterile absorbent cotton
8. Safety razors
9. Triangular bandages
10. Mouth gag
11. Safety pins
12. Cotton tipped applicators
13. Tweezers
14. Plastic measuring cup
15. Ampoule of spirits ammonia
16. Aspirin tablets 300 mg in strength
17. Hydrogen peroxide
18. Antibiotic ointment
19. Soap
20. Blanket and pillows
21. Activated charcoal tablets
22. Syrup of Ipecac

Supplementary First Aid Kit

1. Gauze or universal dressing (10" x 9" packed ready to use)
2. Alcohol wipes
3. Plastic air splints
4. Padded wooden splints
5. Sterile cotton splints
6. Eyecup
7. Paper cups
8. Pencil and pad
9. Flashlight
10. Sterile tongue depressors
11. Shortboard splint for neck injuries
12. Longboard for spinal injuries'
13. Collapsible stretcher

APPENDIX D

Accident Form

ACCIDENT REPORT

**SOLID WASTE FACILITY
Mechanic Falls, Maine**

TO: Town Manager

FROM: _____
(Operator or Attendant)

Date of Accident: _____

Number of Persons Injured: _____

Cause of Accident: _____

Description of Accident: _____

APPENDIX E

Monthly Record Form

**MECHANIC FALLS
CONSTRUCTION/DEMOLITION DEBRIS LANDFILL**

MONTHLY RECORD FORM for _____

1. Amount of CDD waste received this month: _____
Comments, if any, regarding the type or origin of waste: _____

Amount of cover used this month: _____
Comments, if any, regarding compaction equipment: _____

3. Which portion of the landfill was used this month? _____

4. Are erosion and sedimentation control measures and stormwater management systems functioning properly? Yes No
Please describe any corrective actions needed: _____

5. Were any deviations made from approved plans and specifications? Yes No
If _____
yes, please explain: _____

6 Check here if monitoring program reports are attached to this sheet.

7. a. Have any accidents occurred at the landfill this month? Yes No
b. Have any fires occurred at the landfill this month? Yes No
c. If yes in either part (a) or (b) please explain here: _____

8. Explain any significant equipment breakdowns and any operational problems caused by such breakdowns: _____

Check here if inspection records have been attached to this form.

10. Please use the back of this form for more space and/or for additional comments.

Signed: _____ Date: _____

APPENDIX F

CDD Cell Development Plan



LEGEND

EXISTING	DESCRIPTION
---	EDGE OF PAVEMENT
---	EDGE OF GRAVEL
---	FENCE
---	CONTOUR (2 FT.)
---	CONTOUR (00' INT.)
---	TREELINE
P 100'	SPOT EL. EV.
---	DRAINAGE
0	UTILITY POLE
EW 102'	MONITORING WELL
c Dmpmcv	STONE WALL
---	DRAINAGE
---	815 ING/S FRUIT

RI \ N REFERENCE:

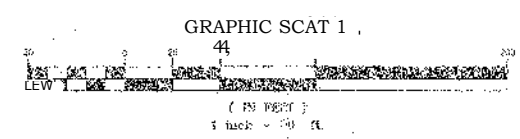
SITE PEAR CREATED BASED ON FIELD SURVEY CONDUCTED BY PINE TREE ENGINEERING INC. ON MAY 5, 2001.

EXISTING PROPERTY LINE EVIDENCE, VERTICAL DATUM, AID SOLID WASTE BOUNDARY TAKEN FROM PLAN ENTITLED "SOLID WASTE MANAGEMENT FACILITY FOOTPRINT" BY ANDROSCOGON VALLEY COUNCIL OF GOVERNMENTS DATED JULY 1, 1990.

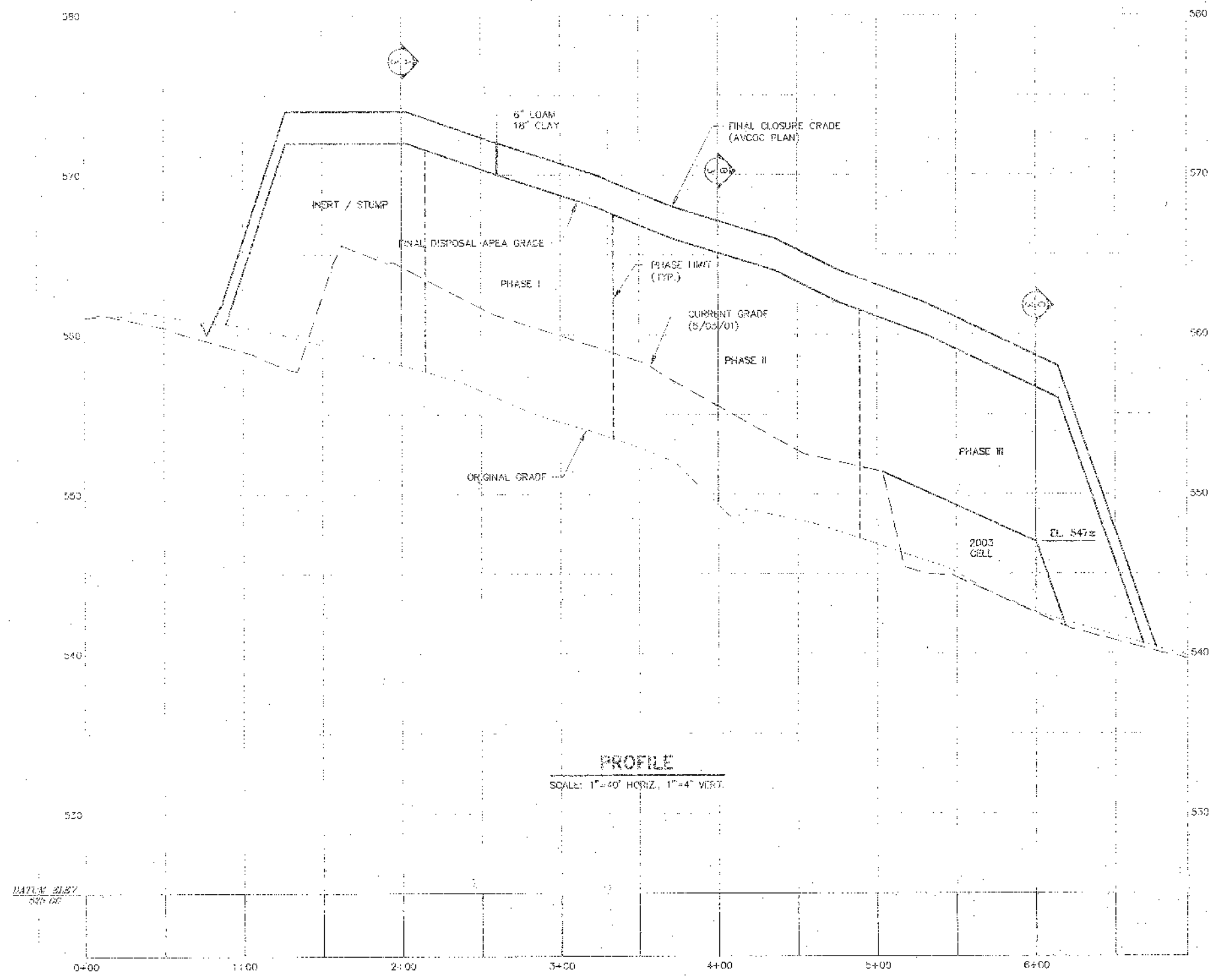
TEMPORARY BENCHMARKS:

TBM 187-2C-1 DOUBLE HEADED NAIL SET 1 FOOT THOSEVD GROUND IN UTILITY POLE SEAN OFFICE. ELEV=550.85

TF31.3 187-20-2 DOUBLE HEADED NAIL SET 1 FOOT ABOVE GROUND IN UTILITY POLE #5. NEAR ENTRANCE GATE, ON THE RIGHT AS YOU ENTER THE ACILLI FELE V= 538.28



	DESIGNED BY: ...	Pine Tree Engineering 55 Front Street Beth, Maine 04530 Tel: (207) 443-1508 Fax: (207) 442-7029	CLIENT	PROJECT	SCALE
	DRAWN BY: JET/RGB		TOWN OF MECHANIC FALLS 103 LEWISTON STREET 1 MECHANIC FALLS, ME 04256	ODD LANDFILL	1" = 50'
	CHECKED BY: RLJ				PROJECT NO. 07-008
	APPROVED BY: RLJ				DRAWING NO. 0106-SITE.DWG
	DATE: 8/23/01	Civil/Environmental Engineering Surveying			SHEET 1 of 3



DATE: 9/27/01
BY: [Signature]



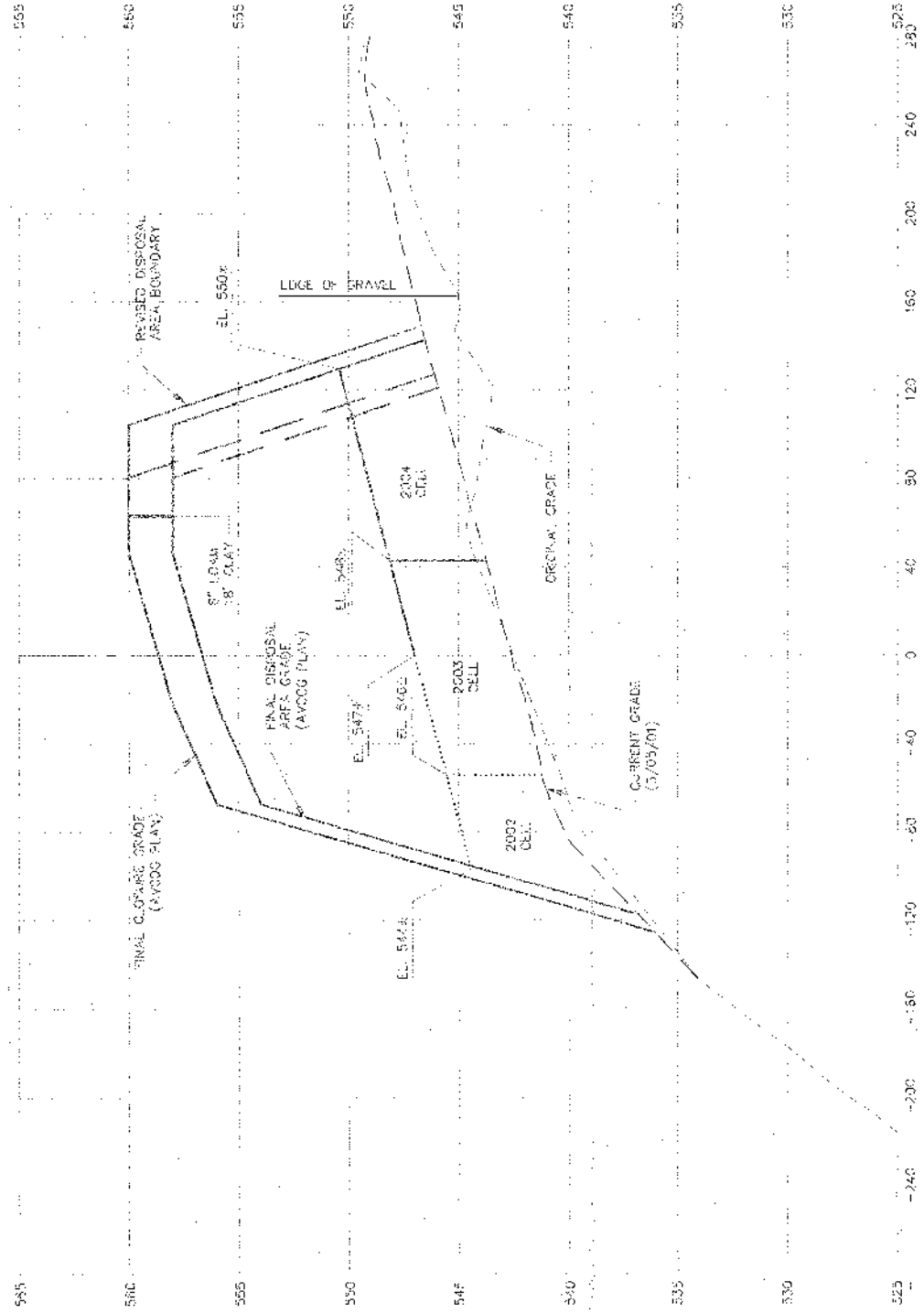
DESIGNED BY: [Signature]
DRAWN BY: [Signature]
CHECKED BY: RLP
APPROVED BY: RLP
DATE: 9/27/01

Pine Tree Engineering
53 Front Street
Bath, Maine 04530
Tel: (207) 463-1508
Fax: (207) 442-7020
Civil/Environmental Engineering • Surveying

CLIENT: TOWN OF MECHANIC FALLS
108 LEWISTON STREET
MECHANIC FALLS, MAINE 04256

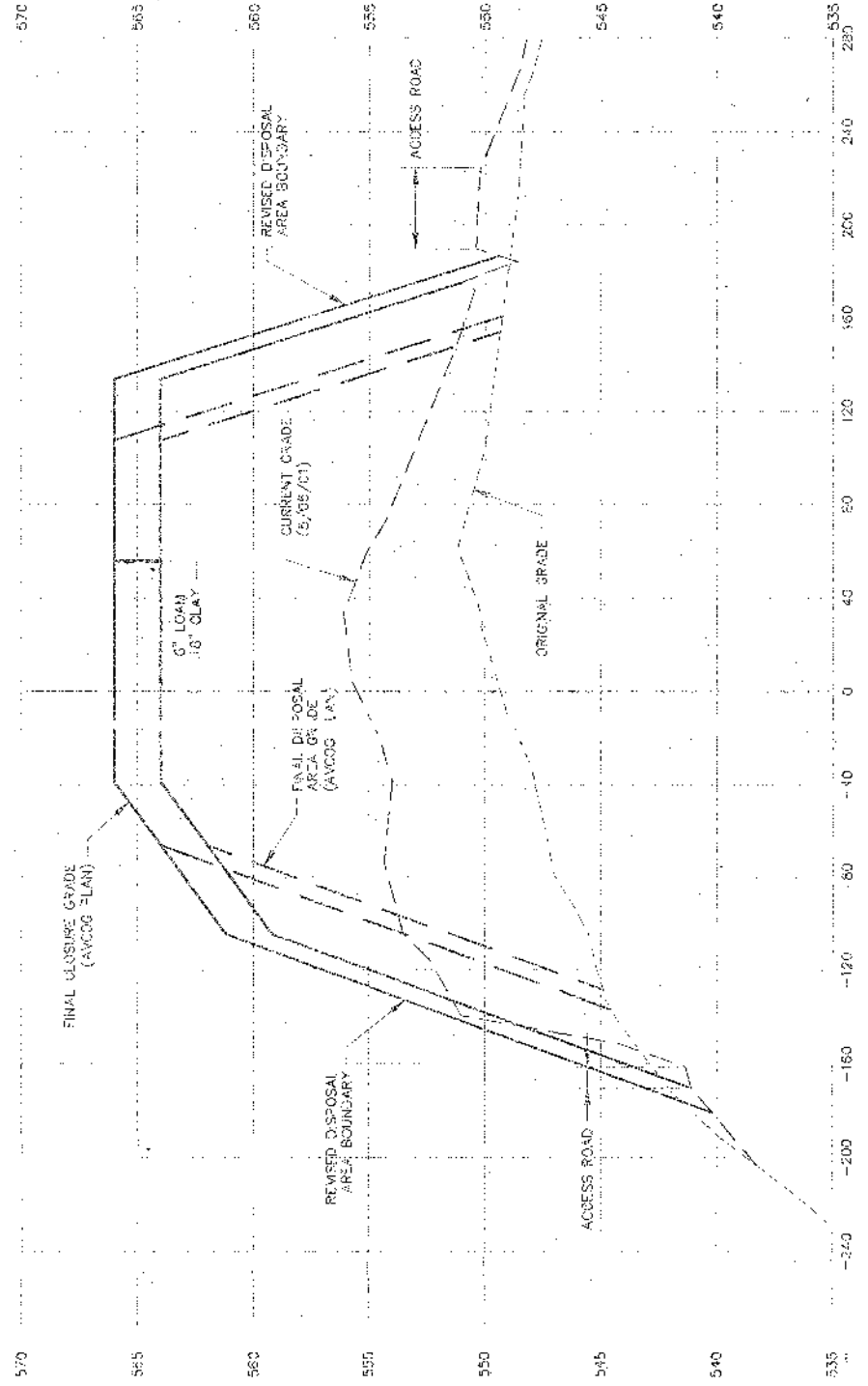
PROJECT: CDD LANDFILL
TITLE: PROFILE & CROSS SECTIONS

SCALE: AS SHOWN
PROJECT NO.: 0405
DRAWING NO.: 0405-PROFILES
SHT. 2 of 3



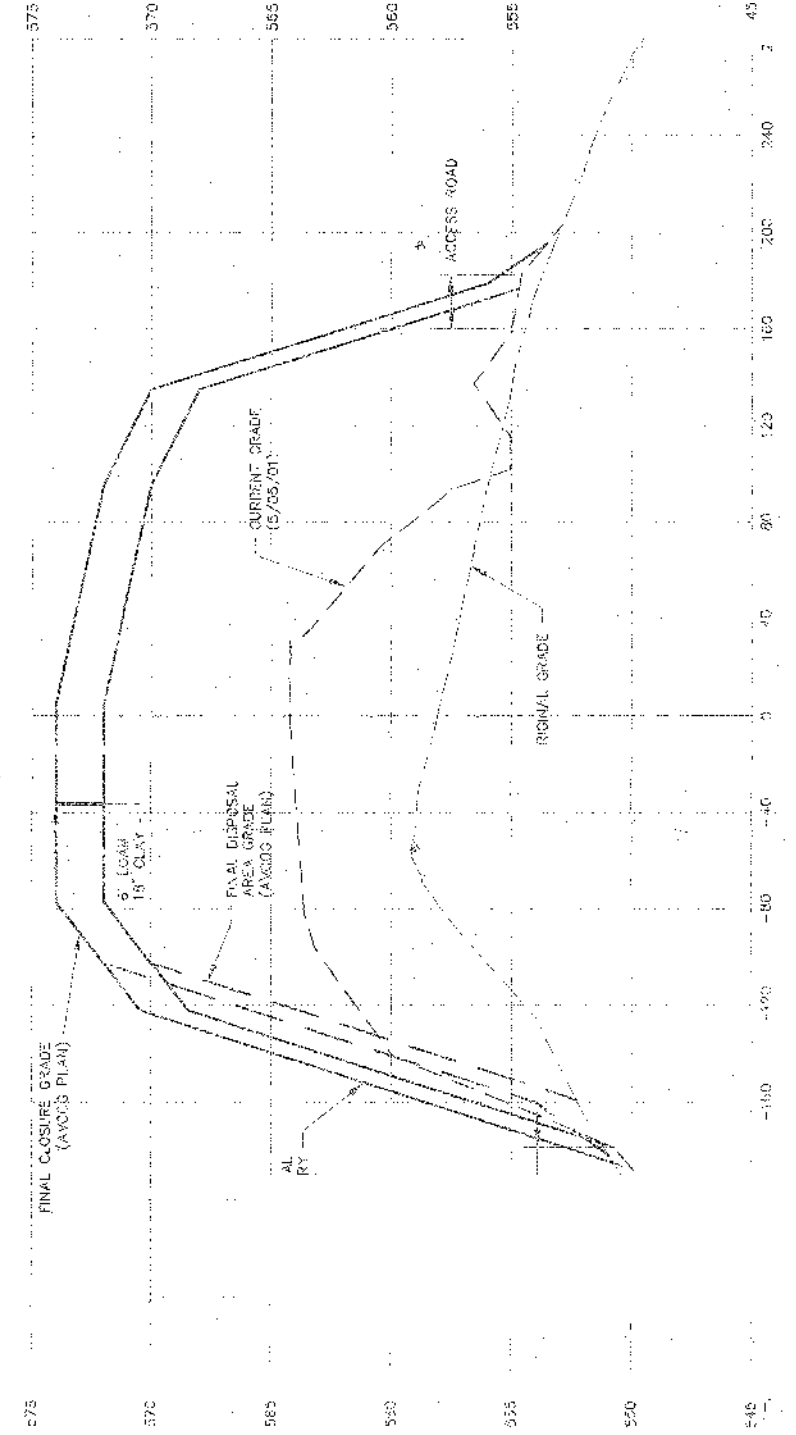
CROSS SECTION STA. 6+00 (C)

SCALE: 1"=4' HORIZ., 1"=4' VERT.



CROSS SECTION STA. 4+00 (E)

SCALE: 1"=4' HORIZ., 1"=4' VERT.



CROSS SECTION STA. 2+00 (A)

SCALE: 1"=4' HORIZ., 1"=4' VERT.

APPENDIX G

Waste Disposal Contracts

Mid-Maine Waste Action Corporation

*One Goldthwaite Road
PO. Box 1750
Auburn, Maine 04211-1750
(207) 783-8805
Fax (207) 783-9831*

COPY

May 30, 2003

Town of Mechanic Falls
Mr. Dana Lee, Town Manager
108 Lewiston St., PO Box 130
Mechanic falls, ME 04256

Dear Mr.Lee,

Our disposal services contract with the Town of Mechanic Falls (Mechanic Falls) will expire on June 30, 2003. We value the relationship between Mid-Maine Waste Action Corporation (Mid-Maine Waste) and Mechanic Falls, and would like to renew our agreement with you.

Mid-Maine Waste Action Corporation is therefore pleased to offer the Town of Mechanic Falls disposal capacity and pricing for another 3-year period. This letter agreement proposes terms between Mechanic Falls and Mid-Maine Waste concerning delivery of municipal solid waste, and pricing and capacity issues for use of the waste-to-energy facility. Mid-Maine Waste agrees to the following provisions, and would ask you to indicate your acceptance by signing where provided:

- Term: Three-year term, beginning July 1, 2003 and ending June 30, 2006.
- Delivery Obligation: Mechanic Falls agrees to deliver all acceptable municipal solid waste (MSW) collected at its transfer station or otherwise as controlled by Mechanic Falls to the Mid-Maine Waste facility during the term of the agreement.
- Disposal Obligation: Mid-Maine Waste agrees to dispose all acceptable MSW delivered from Mechanic Falls during the term of the agreement, and may be excused from this provision only if it no longer provides disposal services to its own member municipalities or is prevented from meeting its obligations by a Force Majeure.
- Mechanic Falls agrees to the following tipping fee schedule:

3-Year Contract:
(July 1, 2003 — June 30, 2004) \$66.50/ton

(July 1, 2004 — June 30, 2005) \$66.50/ton plus CPI (2% min. to 4% cap)

(July 1, 2005 — June 30, 2006) 2nd Yr. rate plus CPI (2% min. to 4% cap)

Note: The tipping fee for years 2 and 3 under this agreement shall be adjusted in proportion to the increase in the Consumer Price Index (CPI) for All Urban Consumers (Boston-Brockton-Nashua, MA-NH-ME-CT) as published by the U.S. Department of Labor, Bureau of Labor Statistics for the period from May through May of the 12-month period immediately prior to the contract period requiring adjustment. The minimum CPI adjustment will be 2% and Mid-Maine Waste will cap any annual index increase to no more than 4% per year.

- Facility Rules: The attached Facility Rules govern use of the Mid-Maine Waste facility and become part of this agreement.
- Acceptable Waste: Mid-Maine Waste's waste-to-energy facility is designed to process MSW. One of our limitations is dealing with large items with dimensions greater than 3 feet, since the hopper opening into the combustor is 3-foot square. We therefore do not accept material over 3 feet in any dimension. See Unacceptable Waste below for other restrictions.
- Unacceptable Waste: Bulky, construction and demolition, and certain industrial wastes are not amenable to the waste-to-energy process but can be accepted, at Mechanic Falls's option, at Mid-Maine Waste's transfer station. The current rate for these waste types is \$85/ton, which can be subject to change. Separated tires are accepted on a per-tire fee basis.

Hours of Operation: Waste is accepted for disposal from 7AM to 4PM Monday through Friday, and 7AM to Noon on Saturdays, excluding holidays.

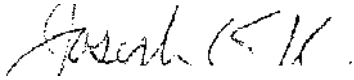
Billing: Mid-Maine Waste will invoice Mechanic Falls on a bi-monthly basis with terms being net 15 days.

- Force Majeure: Either party shall be excused from performing its obligations under this Agreement if an event or combination of events occurs that is beyond the reasonable control of the party relying on such circumstance as a reason for not performing or complying with any obligation under this Agreement. If a Force Majeure results in annual costs equivalent to 10% of the current tipping fee Mid-Maine

Waste may renegotiate the tipping fee, or failing to reach agreement may terminate the agreement.

On behalf of Mid-Maine Waste, I want to thank you for considering us for Mechanic Falls's future disposal needs. Please contact me if you have any questions.

Sincerely,



Joseph E. Kazar
Executive Director

Agreed on the (19th) day of _____, 2003:

TOWN OF MECHANIC FALLS SELECTMEN

Town Manager

MMWAC WASTE DISPOSAL AND RECYCLING FACILITY
WASTE RECEIVING - GENERAL RULES
Revised January 14, 2003

1. Only Acceptable Waste may be delivered to MMWAC for disposal in the waste-to-energy facility. Acceptable waste includes municipal solid waste, which is that solid waste generated by residential or commercial sources, with a dimension of less than 3' in any direction. Certain Unacceptable waste, as defined in this document, may be disposed at MMWAC in its recycling or transfer station operations.

Customers must accurately declare the origin and type of waste delivered and are responsible for prompt payment of disposal charges.

3. Customers must be properly licensed, if so required by State or local regulations, and not in violation of any agreement by delivering waste to MMWAC.
4. Receiving hours will be from:

Monday - Friday	7:00 a.m. — 4:00 p.m.
Saturday	7:00 a.m. - 12 noon

The facility will be closed the following holidays: New Years, Labor Day, Memorial Day, Thanksgiving, Independence Day, and Christmas.

5. All incoming vehicles are required to pass over the scales, except those delivering recyclables or bagged household trash from Auburn. Traffic will enter the facility at the north gate and move in a clockwise direction onto the scale deck. The scale attendant will then provide dumping instructions and determine queuing. Secured loads or coverings are to be removed only after the driver has positioned the vehicle in the designated area as directed by the scale attendant. Trucks may not approach the pit doors until the traffic light for that door has turned from red to green.

Waste received and dumped into the waste-to-energy facility pit, will be only from self unloading vehicles as approved by MMWAC. All other waste deliveries will be directed to a specific location on site for manual unloading. Extra care and attention shall be taken when depositing waste in the pit. All vehicles backing up will proceed with extreme caution making sure that rear gates and other equipment are properly set for safe and efficient dumping. Clean up of spills is the responsibility of the customer.

Once vehicles are unloaded, they will be weighed for tare weight, thus again traffic flows in clockwise direction onto the southern end of the scale deck, then proceeds through the north gate, thereby exiting the facility. There will be no cleaning of vehicles, on the facility premises, except that drivers must inspect trucks after unloading, to be sure trucks are free from loose material before exiting the facility.

All users of the Facility shall be responsible for cleaning up any waste materials that drop from their vehicle, blow from their vehicle or are otherwise not in the disposal pit or other designated disposal area. This requirement shall be strictly enforced.

6. No vehicles containing waste which is subject to blowing, dusting, or littering will be admitted onto the site unless loads are covered or otherwise secured.
7. No children or pets shall be allowed out of vehicles while using the facility.
8. There will be no dropping or switching of roll-off containers at the facility site.
9. All loads are subject to random inspection for hazardous materials. If a load is selected for inspection, the driver must cooperate and remain on site until inspection is complete.
10. No alcoholic beverages, illegal drugs or firearms are allowed onto the facility site. Smoking is not permitted in any area where waste is dumped.
11. Posted speed in facility area is 10 mph.
12. No scavenging will be allowed on the facility premises.
13. Any lead acid batteries are to be deposited at the recycling center's special area.
14. Vehicles with frozen loads or other mechanical problems will be allowed at the unloading area for up to fifteen (15) minutes. The vehicle must then be moved as directed by facility personnel at the owner's expenses. •MMWAC assumes no liability in assisting the customer or his driver in moving disabled vehicles or freeing frozen loads.
15. Any commercial refuse collection person or entity seeking to dispose of waste at the MMWAC Facility must have, at the time of depositing waste, proof of insurance in the following amounts: (1) public liability insurance in amounts of not less than \$500,000 per occurrence and \$1,000,000 in the aggregate, to protect the person or entity and MMWAC and its officers, agents and employees from any claims and damages that may be caused by such depositing of waste; Any municipal entities are required to maintain \$300,000 Combined single limit; (2) automobile liability insurance in the amounts of not less than \$500,000 per occurrence and \$1,000,000 in the aggregate, to protect the person or entity from any claims and damages, and (3) workers' compensation insurance in amounts required by Maine law and Employer's Liability Insurance, as necessary, as required by Maine law to protect the person and any employees of the entity.
- 16.. Customers agree to indemnify MMWAC fbr any violation of these rules and agree to reimburse MMWAC for any costs incurred as a result of such violations.
17. Customers agree to be fully responsible for the actions and representations of their drivers.

18 Unacceptable waste is defined as follows:

Hazardous Wastes: All hazardous waste as defined by the Federal and state regulations.

'Special Wastes: As defined by Maine State Solid Waste Regulations.

Explosives

Pathological and Biological Wastes

Ashes

Foundry Sand

Sanitary Sewage

All Human and Significant Quantities of Animal Remains

*Bicycles

*Large Appliances

*Metal Shopping Carts

*Cable, Metal Wire and Coils

Motor Vehicles

*Major Motor Vehicle Parts such as Transmissions, Rear ends. Springs and Fenders

Agricultural and Farm Machinery and Equipment

Free Liquids

*Solid or Dissolved Materials in Domestic Sewage, except sewerage treatment plant screenings that are essentially free of liquids and do not cause an odor problem may be disposed at the facility

Significant Pollutants in Water Resources such as Silt. Dissolved or Suspended Solids in Industrial Waste Water Effluents, Dissolved Materials in Irrigation Return Flows or Other Common Water Pollutants

*Non-burnable Construction Material or Demolition Debris

Solid Waste having a higher heating value of less than 3,800 or more than 7,000 BTU's per pound

* Wooden Pallets

*Items larger than 3 feet in any dimension

*Branches or tree trucks larger than three (3) feet or two (2) inches in diameter

*Stumps

*Lead Acid Batteries

Note: Items designated with an asterisk (*) will be accepted at the facility's non-acceptable waste area and/or the recycling area, as directed by the scale attendant.

• These facility rules are designed to help conform operations to local and state mandates. Any infraction of these rules may result in the inability of the hauler to use the facility. Also, belligerent behavior by drivers will result in a suspension from the facilities.

MMWAC intends to provide efficient and environmentally sound disposal services for all its Members and customers. This can only be accomplished by a joint effort by all of us to work together. We encourage any suggestions you may have to make this facility operation the cleanest and most efficient in the State of Maine.

Thank you for your support. MID-MAINE WASTE ACTION CORPORATION

AGREEMENT FOR USE OF LEWISTON RECYCLING FACILITY

This agreement, made and entered into the 1st day of July, 2003, is between the City of Lewiston, Maine (Lewiston) and the Town of Mechanic Falls, Maine (Mechanic Falls),

The parties agree as follows:

I DEFINITIONS

- A. "Contaminants" means any materials specified from time to time by Lewiston, which in Lewiston's judgment, when mixed with recyclables degrade the material to the point that the recyclable material is either reduced in value or is no longer marketable. "Contaminants" include, but are not limited to, rubbish, food residue and other non-recyclable materials.
- B. "Facility" means the Lewiston Solid Waste Facility including the shredder building recycling and landfill operations.
- C. "Recycling Program" means the processing, transport and marketing of all recyclables accepted at the Facility.
- D. "Recyclable" means any materials specified from time to time by Lewiston, and may include, but are not limited to, newspaper, corrugated cardboard, glass, tin cans, aluminum, HDPE plastic, office paper, and mixed paper.
- E. "Sort" means to separate Recyclable by type, as specified from time to time by Lewiston (e.g. to separate aluminum from newspaper or to separate glass by color).

L RECYCLING PROGRAM

- A. Lewiston agrees to maintain a recycling facility and to accept recyclables generated and delivered by Mechanic Falls in accord with this Agreement.
- B. Mechanic Falls agrees to collect, cause to be collected or to provide a drop-off program for Recyclables and to deliver, or arrange for the delivery of, all such Recyclables to the Facility.
- C. Mechanic Falls agrees that the Recyclables that it delivers to the Facility will be Sorted and free of Contaminants. Lewiston will monitor its Recycling program. In order to encourage recycling and to ensure that the Recyclables are Sorted and free from Contaminants, Mechanic Falls will take all reasonable measures including, but not limited to, developing a recycling education program, providing staff monitoring at the point of drop-off or collection and physically Sorting Recyclables and removing Contaminants.
- D. Should any Recyclables delivered by Mechanic Falls to the Facility not be Sorted and free of Contaminants, Lewiston shall orally notify Mechanic Falls and Mechanic Falls reserves the right to inspect the load and remove that portion of Recyclables that are in Mechanic Falls' delivery vehicle and that have not been unloaded. Mechanic Falls also reserves the right to request Lewiston to Sort the Recyclables and remove

Contaminants for a fee. If Mechanic Falls has not removed the load within twenty-four (24) hours of the first notification, Lewiston may Sort the Recyclables and remove Contaminants and Mechanic Falls agrees to pay to Lewiston the costs of Sorting and removing Contaminants, together with any costs of disposal.

- E. Mechanic Falls will take all reasonable measures to ensure that hazardous waste is not deposited at the Facility. Should hazardous waste be deposited at the Facility, Lewiston shall return the hazardous waste to Mechanic Falls, or cause the hazardous waste to be returned to Mechanic Falls, or otherwise dispose of the waste, and Mechanic Falls agrees to accept the Waste and to pay to Lewiston the costs of return or disposal.
- F. Mechanic Falls agrees to provide for the transportation of Recyclables to the Lewiston Facility in enclosed vehicles. The vehicles will travel only on those roads as indicated on the map attached as Exhibit A. The vehicle drivers will unload the Recyclables at the Facility in accord with procedures specified by Lewiston. Mechanic Falls agrees to provide at least annually, a list of haulers who will be hauling Recyclables from Mechanic Falls to the Facility.

III. RULES AND PROCEDURES FOR FACILITY

- A. The Lewiston Facility shall be governed and administered solely by the City of Lewiston in accordance with the terms of this agreement and all laws, rules and procedures governing the City of Lewiston.
- B. Lewiston shall promulgate specific rules and procedures for the use and operation of the Lewiston Facility as long as said rules and procedures do not conflict with this Agreement.
- C. The parties agree to be bound by said rules and procedures in all respects as if they were originally made a part of this agreement.
- D. Such rules shall govern:
 - 1. The days and hours when the Facility will be open to receive Recyclables;
 - 2. The delivery schedule for the Recyclables;
 - 3. All procedures for billing and collection of fees;
 - 4. All other appropriate rules and procedures pertaining to the separation and delivery of Recyclables and the management and control of the Facility.
- E. An Advisory Committee shall be formed and will be comprised of one representative from Lewiston, Mechanic Falls and from each other town which has an Agreement for the use of the Lewiston Recycling Facility substantially similar to this Agreement. The Advisory Committee shall review Facility operations and provide input to Lewiston on the Recycling Program. The Advisory Committee shall review the proposed budget for the Recycling

Program, the proposed Base Fee and proposed Sorting Fee by March 1 of each year.

IV. BILLING AND PAYMENT

- A. The Parties agree that all Recyclables brought to the Facility by Mechanic Falls will be weighed in accordance with reasonable procedures to be specified from time to time by Lewiston.
- B. Lewiston agrees to maintain records of the weight of Recyclables and to provide such information to Mechanic Falls each month.
- C. On or about April 1 of each year Lewiston will notify Mechanic Falls of the base fee ("Base Fee") which it will charge for each ton of Recyclables received at the Facility and the sorting fee ("Sorting Fee") which it will charge after the next July 1. The Base Fee will be based on the projected cost of operating the Recycling Program. The Sorting Fee shall be an hourly rate based on the projected cost of Sorting Recyclables and removing Contaminants. If the actual cost differs substantially from projected costs, Lewiston reserves the right to change the Base Fee after giving Mechanic Falls ninety (90) days written notice and the option to terminate this Agreement. Lewiston reserves the right to change the Sorting Fee after giving Mechanic Falls ninety (90) days written notice.
- D. In addition, Mechanic Falls agrees to pay to Lewiston its fair share of any actual additional costs incurred by Lewiston ("Marketing Fee") above the costs included in the Base Fee of operating the Recycling Program. Such additional costs shall represent increases to the costs included in the applicable Base Fee calculation. Further, such additional costs shall primarily include, but are not limited to, transportation charges and any unanticipated charges by the market for acceptance of the Recyclables. Quarter-annually, Lewiston will determine Mechanic Falls' fair share of the Marketing Fee by calculating the total actual additional costs in that quarter, divided by the total number of tons of Recyclables received, in that quarter, at the Facility, multiplied by the number of tons of Mechanic Falls' recyclables processed, in that quarter, at the Facility.
- E. Mechanic Falls agrees to pay the Base Fee and the Marketing Fee for each ton of its Recyclables delivered to the Facility, and to pay a fraction of those fees for each fraction of a ton delivered. Mechanic Falls agrees to pay the Sorting Fee (if applicable) for each hour of sorting required by reason of its deliveries. Lewiston will bill Mechanic Falls monthly for the Base Fee and Sorting Fee (if applicable) and will bill Mechanic Falls quarterly for the Marketing Fee. Mechanic Falls will pay each bill within thirty (30) days of receipt. Lewiston shall also provide with the quarterly bills information on how the "Marketing Fee" was determined.
- F. Lewiston agrees to distribute to Mechanic Falls quarterly Mechanic Falls' share of revenues, received from the sale of Recyclables ("Revenues"). Each quarter, Lewiston will determine the Revenues per ton of Recyclables for the previous quarter by dividing the total income received in that quarter from the sale of Recyclables received at the Facility in that quarter by the total tonnage of recyclables received at the Facility during that quarter. Lewiston may set off against the Revenues otherwise owed to Mechanic Falls any overdue fees and any Marketing Fee that Mechanic Falls owes to Lewiston.

G. Mechanic Falls agrees, that in the event Lewiston's processing facility or operation must be altered, changed, expanded or adjusted due to the addition of Mechanic Falls' recyclables, to meet with Lewiston to review said changes and associated costs, and to reimburse Lewiston for the prorated cost of alteration, change, expansion or adjustment resulting from Mechanic Falls' using the Facility, or, at the Municipalities mutual agreement, terminate the Contract. Lewiston, Turner, Leeds and Greene shall not share in any cost for, expansion due to the addition of Mechanic Falls' or any other community's recyclable material stream. Mechanic Falls shall not share in any cost for expansion due to the increase of recyclable material from Turner, Leeds, Greene or Lewiston.

V INDEMNITY

Mechanic Falls will indemnify and hold harmless Lewiston, its agents and employees, to the extent Mechanic Falls has insurance, against and from any and all claims and liabilities arising from actions' by Mechanic Falls, its agents and employees in conjunction with the administration and implementation of the Agreement. The obligation to indemnify shall include the obligation to reimburse Lewiston for all of its costs and attorneys fees reasonably incurred in connection with the defense of any such claim.

Lewiston will indemnify and hold harmless Mechanic Falls, its agents and employees, to the extent Lewiston has insurance, against and from any and all claims and liabilities arising from actions by Lewiston, its agents and employees in conjunction with the administration and implementation of the Agreement. The obligation to indemnify shall include the obligation to reimburse Mechanic Falls for all of its costs and attorneys fees reasonably incurred in connection with the defense of any such claim.

VI. FORCE MAJEURE

The Parties shall not be held liable for any failure or delays in fulfillment of their obligations under this Agreement arising from strikes, fires, acts of God or any other cause which by reasonable diligence could not be prevented.

VII. TERM OF AGREEMENT

- A. The Term of Agreement shall be from the date signed until July 1 next following the signing, except that no Agreement shall expire before July 1, 2003.
- B. The Agreement will automatically renew itself for one year on July 1 of each year unless either party notifies the other in writing sixty (60) days before July 1.
- C. Either party may terminate this Agreement for just cause sixty (60) days after giving written notice to the other party.

If Mechanic Falls repeatedly fails to Sort Recyclables or fails to remove Contaminants, Lewiston shall notify Mechanic Falls that it has been placed on a probationary status. If while on probationary status, Mechanic Falls brings Recyclables into the Lewiston Facility

that are not Sorted or that contain Contaminants, Lewiston reserves the right to terminate the Agreement without further notice period.

VIII. APPLICABLE LAW

The parties agree to comply with all applicable federal, state and local laws and regulations which are either now in effect or are hereinafter enacted and, if necessary, to execute and deliver any amendment to the Agreement in order to meet any said new laws or regulations.

IX. WAIVER

Any waiver by either party or default of rights under this Agreement shall not be deemed a waiver of any subsequent default or other matter.

X. MODIFICATIONS

Any modifications of this Agreement shall be in writing and signed by the parties.

XI. INSURANCE

Mechanic Falls agrees to provide and maintain adequate Worker's Compensation Insurance, Liability Insurance and Automotive Insurance as required under Maine State Law for Mechanic Falls' employees and vehicles using the Facility.

Lewiston agrees to provide and maintain adequate Worker's Compensation Insurance, Liability Insurance and Automotive Insurance as required under Maine State Law for Lewiston employees and vehicles using the Facility.

This agreement contains the entire agreement between parties with respect to the subject matter hereof and there are no agreements, covenants, promises or undertakings, expressed or implied, with respect to the subject matter hereof, which do not appear upon the face hereof.

Signed and Sealed on the Day and Year First Above Written:

City of Lewiston

By: _____

Its: City Administrator

STATE OF MAINE

Androscoggin, S.S. July 15, _____ 2003

Personally appeared before me the above named James A. Bennett

City Administrator of said City of Lewiston and acknowledged the foregoing instrument to be his/her free act and deed in his/her said capacity and the free act and deed of said City.

Notar pub., M. Montejo
Attorney at Law

K
a
thleen M. Montejo
Print Name KATHLEEN MONTEJO
NOTARY PUBLIC MAINE
MY COMMISSION EXPIRES APRIL 2, 2006

Town of Mechanic Falls

By: _____

Its: CSCA MG. ty

STATE OF MAINE

ANDROSCOGGIN, S.S. JUNE 19th, _____, 2003

Personally appeared before me the above named DANA K. LEE

TOWN MANAGER of said Town of MECHANIC FALLS and acknowledged the foregoing instrument to be his/ free act and deed in his/liteitsaid capacity and the free act and deed of said Town.

Shirley A. Marquis
Notary Public ~~Attorney at Law~~

SHIRLEY A. MARQUIS

G-12

Print Name

SHIRLEY A. MARQUIS
NOTARY PUBLIC-MAINE
EXPIRES 12/09/17

APPENDIX H

Water Quality Monitoring Plan

MEMORANDUM

TO: Mr. Dana Lee, Town Manager, Town of Mechanic Falls, Maine
FROM: James M. Moody C. G.
DATE: November 25, 2003
RE: Summary of Revisions to the Water Quality Monitoring Program
Construction and Demolition Landfill, Mechanic Falls, Maine

A Water Quality Monitoring Program has been conducted at the Town of Mechanic Falls Construction and Demolition Debris landfill since 1991. The original Water Quality Monitoring Plan was written and issued in June 1991. Woodard & Curran wrote the original Water Quality Monitoring Plan, conducted the baseline water quality assessment and has conducted the monitoring from 1991 to 2003.

The original Water Quality Monitoring Plan has been revised during the monitoring period due to changes in Maine Solid Waste Management regulations and directives from the MEDEP. The revisions have been memorialized in periodic letters and reports to the MEDEP and the Town of Mechanic Falls, however; the original Water Quality Monitoring Plan has not been re-written.

This memorandum is being written to summarize the revisions that have been made to the Water Quality Monitoring Plan. This memorandum will be attached to the Water Quality Monitoring Plan as a means of amending the Water Quality Monitoring Plan until such time as the document is revised in its entirety. The following revisions have been made to the original Water Quality Monitoring Plan.

1. In approximately 1996, the monitoring frequency was reduced from four times per year to three times per year. This change was approved by the MEDEP.
2. Beginning in April 2000, filtering of samples was discontinued. This revision allowed for the analysis of total metals rather than dissolved metals. This change was approved by the MEDEP.
3. Sodium was added to the parameter list in June 2001. This change was approved by the MEDEP.
4. Assessment monitoring was conducted at the landfill in July and November 2003 at the request of the MEDEP. The assessment monitoring results will be reviewed in the 2003 annual report and modifications to the parameter list will be recommended at that time.
5. The data management software was changed to GIS/KEY in 2003. All of the historic data was transferred to G15/KEY. All future data management, statistical evaluations and reporting will be conducted using GIS/KEY.
6. Beginning in approximately 2001, the groundwater sample collection method was switched from bailers to low-flow sampling methodology using peristaltic pumps and polyethylene tubing.

The original Water Quality Monitoring Plan will be revised in early 2004 following the results of the two rounds of assessment monitoring conducted in 2003. The parameter list is expected to increase to the existing MEDEP Detection parameter list.

ENVIRONMENTAL MONITORING PROGRAM
FOR THE MECHANIC FALLS DEMOLITION
AND DEBRIS LANDFILL

PREPARED BY:
Woodard & Curran Inc.
Consulting Engineers
41 Hutchins Drive -
Portland, ME 04102
Tel.: 207-774-2112
Date: June 1991

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I INTRODUCTION

The Environmental Monitoring Program is an integral part of the operation of this facility. It is necessary to detect and monitor any effects that the facility has on the surrounding environment; explicitly the ground. This program contains information regarding the location and description of the monitoring points, the Groundwater Monitoring Program, the Sampling and Analytical Work Plan, and the Sampling and Analytical Report Forms.

II. GROUNDWATER MONITORING PROGRAM

According to the Maine State Solid Waste Regulations which became effective in May 1989, all disposal facilities, whether new or existing must have a Groundwater Monitoring Program. This water monitoring program consists of a Baseline Monitoring Plan, a Detection Monitoring Plan, a Sampling and Analytical Work Plan, and Sampling and Analytical Reporting Plan. For Mechanic Falls the Baseline, and Detection Monitoring Plans differ only with respect to the frequency of monitoring. The baseline monitoring is defined as background monitoring before any disposal takes place at the site. Detection monitoring is defined as long term monitoring after the site is in operation. Both monitoring plans will follow the outline of the Sampling and Analytical Work Plan contained in this report. The water monitoring program is designed to conform with the MEDEP regulations and to provide a monitoring program which meets the needs of the Town of Mechanic Falls.

A. Baseline Monitoring Plan

During Baseline Monitoring field tests for conductivity, Ph, temperature, and depth to groundwater will be completed. Samples will be collected for laboratory tests of acidity, iron, TOC, COD, and chloride. Because no upgradient wells could be established the baseline monitoring will be conducted prior to any disposal on the site. Sampling will be completed a total of 5 times during the period from May 1, 1991 through January 31, 1992. As requested by the Maine Department of Environmental Protection (MEDEP) sampling will be completed in May 1991, July 1991, September 1991, November 1991, and January 1992

B. Detection Monitoring Plan

The Detection Monitoring Plan consists of the same parameters as the baseline monitoring. The Detection Monitoring will be completed on a quarterly basis beginning in March, 1992. The intent of this monitoring plan is to collect groundwater quality data for the high, intermediate, and low groundwater conditions during the year (ie. Spring, Summer, Fall and Winter).

C. Levels of Concern For Water Quality

Two levels of concern are to be used in the evaluation of the water quality; an Alert and Alarm Level. These levels cannot be determined without a sufficient amount of historical data. The five sampling events proposed for the baseline monitoring will be the only predevelopment historical data for a particular monitoring point. Based on this data the mean, range, and standard deviations can be used to calculate baseline alert and alarm levels.

The "Alert Level" shall be defined as the mean of the data plus two standard deviations of data collected during baseline monitoring. If a particular sample reading Buring-detection--' monitoring is higher than this level, then that monitoring point shall be ag_osely watched for any fluctuations in the level of the parameter of interest as well as any other geatneters.

"Alarm Level" shall be designated as the mean of the data in a given well, plus the range of data associated with the baseline monitoring. This shall also be defined as a "statistically significant" amount. If at any period a sample reading is higher than this level and a sufficient data base indicates an historical upward trend in chemical concentration, then appropriate corrective action program will be initiated.

After two years of monitoring the definitions for the alert and alarm levels will be re-evaluated. It may be appropriate at that time to evaluate inter-well statistics where each monitoring event is added to the baseline data changing the range and standard deviation of the data. This in addition to a yearly graphical trend analysis will increase the baseline data and supply a practical means to evaluating long term groundwater quality.

It is important to realize that there are seasonal variations in groundwater quality. Fluctuations in groundwater quality are not necessarily indicative of groundwater contamination. Thus, an objective method of reviewing the water quality data must be used. The above statistical approach continually compiles historic data that can be used in a background comparison. Yearly graphical trend will be important in order to observe slow changes in the historic data. The alarm and alert levels will be used to indicate dramatic changes in the water chemistry during each monitoring event.

D. Corrective Action Program

The Corrective Action Program will determine and implement the corrective measures necessary (if any) to prevent any (further) threat to public health or the environment. This program will be developed by the Town at the time it is required and will comply with the requirements of the MEDEP.

III. SAMPLING AND ANALYTICAL WORK PLAN

Four existing groundwater monitoring wells will be used for monitoring purposes around the demolition and debris site. The Well logs and monitoring well details are given in Appendix A of this Plan and are further described in the Hydrogeologic Report prepared by Woodard & Curran in 1989.

A. Groundwater Samplinc..

The monitoring wells to be monitored include MW-101, MW102, MW-103, and MW-105. MW 104 will be decommissioned and was replaced by MW-105 in March, 1991.

MW 103 is located on the east side of a groundwater divide that hydrologically separates the site. MW-101, MW-102, and MW-105 are located on the west side of the groundwater divide. All the monitoring wells are screened in a perched groundwater table on top of bedrock.

B. Sampling and Field Procedures

1. Sampling Locations and Conditions

It is extremely important to know the physical conditions at a water quality monitoring site. It is necessary to have a good record of the well construction, including the driller's log of soil conditions. The locations of the monitoring wells are shown on the Existing Conditions Plan contained on this document

2. Parameters to be Analyzed and Frequency of Sampling

Baseline sampling will be carried out for five monitoring events prior to any disposal at the site. Baseline sampling will be done on a bi-monthly basis from May through January, 1992.

The parameters to be analyzed are those listed in section 404.4 (E) (2) of the Maine Solid Waste Management Regulations dated May 24, 1989. The parameters, as listed in section 2A of this document, will be sampled on a quarterly basis during the first year of the Detection Monitoring; March, June, September, and December, 1992.

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3. Sample Collection Method

a. Groundwater

Non-dedicated teflon bailers will be used to sample the groundwater wells. A reel of teflon coated stainless steel bailer-line will be used to lower the bailers into the well. The following procedure will be used for sampling the monitoring wells:

- (1) Calibrate all field equipment
- (2) Remove the casing and well caps.
- (3) Measure the static water elevation from the top of well to the closest .01 ft.
- (4) Decontaminate the sampling equipment (see Section 4).
- (5) Determine the presence of immiscible layers by:
 - (a) carefully lowering the bailer into the well water;
 - (b) retrieving the sample at the well-top;
 - (c) carefully emptying the bailer into a vinyl bucket; and examining the water to determine if an immiscible layer exists. If a layer is present skim sample off the surface and fill a glass container for analysis.
- (6) Purge the well until either:
 - (a) three well volumes are emptied;
 - (b) the well yields no more water; or

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(c) the Specific Conductivity stabilizes, as evidenced by three consecutive readings within 10%.

- (7) Record the following field parameters
 - (a) pH
 - (b) Temperature
 - (c) Conductivity
 - (d) Color, odor, surface sheen, or other field observations.
 - (e) Depth to groundwater
- (8) Collect the well samples following the order listed in section 2A, and carefully empty them into their respective containers.
- (9) Decontaminate the sampling equipment as stated in Section 4.

4. Decontamination Procedure

Before sampling each well, the teflon bailers and teflon coated bailer-line will be rinsed three times with copious quantities of de-ionized water. See Quality Assurance and Quality Control (QAJQC) section for additional information.

5. Sample Storage, Preservation, and Holding Times

All collected samples will be stored in coolers (-4°C) until they are delivered to the laboratory for analysis (which will be either the day of their collection or the following morning). In no case shall the samples be held longer than 24 hours. The laboratory will supply all appropriate containers and necessary chemical preservatives.

6. Chain of Custody

a. Labels

All sample containers will have labels and seals provided by the laboratory. The labels will be completed with indelible/waterproof ink and will contain at least the following information:

- (1) Sample identification number
- (2) Date and time of collection
- (3) Place of collection
- (4) Parameter(s) requested (if space permits)

b. Chain of Custody and Analysis Request Form

A chain of custody and laboratory analysis request form will be completed for each sampling period and will consist of the following:

- (1) Sample numbers
- (2) Name and signature of collector
- (3) Date and time of collection
- (4) Sample type (i.e., groundwater, surface water, etc.)
- (5) Number of containers
- (6) Parameters requested for analysis
- (7) Name and signature of person receiving the sample
- (8) Date of sample receipt

c. Field Notes

Field notes will be recorded and will contain the following:

- (1) Name of sampler
- (2) Date and time of sampling
- (3) Climatic conditions
- (4) Station identification
- (5) Well depth
- (6) Feet to static water level
- (7) Presence of immiscible layers
- (8) Well yield (high or low)
- (9) Purge volume
- (10) Field analysis data
 - (a) pH
 - (b) Temperature (C°)
 - (c) Conductivity
- (11) Field observations on sampling event

1. Field sampling OA/OC

The field sampling plan is designed and will be implemented in a responsible manner. Careful attention will be given to the site and the testing parameters. Appropriate techniques and equipment will be used, and these may change depending on the site's surface water and groundwater history. This plan will provide adequate information to maintain good quality control and assurance for this program.

a. Sampling Precautions

All water samples will be collected in a fashion which minimizes agitation and aeration. The bailers will not be allowed to drop into the water of the well. The sample will be carefully transferred from the sampler into its respective container without overtopping. The sampling equipment will not touch the ground or be allowed to come into contact with anything else from which it could become contaminated.

b. Field Equipment Calibration

All equipment used in the field to analyze the water will be calibrated before each sampling period if necessary.

c. Storage of Sampling Equipment

The teflon bailers will be stored in a manner so that they will not contaminate each other, or be contaminated by any other source. They will be individually protected and stored in a locked area.

d. Decontamination

The teflon bailers will be rinsed three times with copious quantities of de-ionized water before each use to prevent inter-well contamination.

D. Data Base and Statistical Analysis

All data produced from the Groundwater Monitoring Program will be recorded into a database which will facilitate the production of tables, graphs, and statistical analysis, all of which will be used to monitor the quality of the water during the monitoring program. Because the results will need to be presented in a variety of formats, we believe that the software with the most flexibility would be a sophisticated spreadsheet type of program. We will initially use the "Quattro Pro" program for data tables and presentations.

The statistical analysis will be kept simple, so that the results are understandable. Five monitoring events will be performed during the baseline sampling after which a statistical analysis will be completed. We will calculate the mean, variance, one standard deviation, two standard deviations, the mean value plus two standard deviations, and the mean value plus the range, for each parameter in each well.

E. Laboratory Analysis QA/OC

The laboratory designated for this project is Environmental Diagnostic Laboratories (EDL) in South Portland, Maine. They use the currently accepted practices for their laboratory procedures and internal quality assurance. The laboratory procedures follow standard U.S. EPA Methods.

IV. SAMPLING AND ANALYTICAL REPORT FORM

The Sampling and Analytical Report for this Groundwater Monitoring Program will include the following information. The year end report will include, in addition, historic graphical trends for each parameter in each well.

- I. Date and time each sample was collected, sample number, and sampler's signature;
2. Water elevation before purging the well for sampling, and a site plan for the monitoring well locations. Report of unusual conditions such as coloring, odor, surface sheens, etc., during purging or sampling;
3. A brief description of each of the analytical techniques used, including:
 - a. Title of Method;
 - b. Reference;
 - c. Specific procedure chosen where alternatives exist;
 - d. Corrections made for interferences, if any;
 - e. Sample pretreatments, if any.
5. Results of analyses (in respective units of measure) and discussion; or reasons for no results if such is the case;
6. A copy of field sheets for each well and surface water sampling location;
7. A table of the historical data from this monitoring program and new data for each sampling point; and
8. A copy of the chain-of-custody records, data reduction and validation, and a statistical interpretation of the results.

V. MAINTENANCE

The physical condition of all wells shall be inspected during each monitoring event. Heaving or settling problems with the well casing will be checked for and remedied. Any well which has been damaged and made susceptible to outside contamination shall be remedied or replaced immediately.

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SOIL EXPLORATION CORPORATION

Geotechnical Drilling and Groundwater Monitor Wells

Client WOODWARD AND CURRAN		Date 06/02/89		Job No. 8 9-0 3 00 F	
Location MECHANIC FALLS, MAINE					
BORING NO.	B-1 0 1	Ground Elev.		Date Start 05/31/89	Date Complete 05/31/89
				Drilling Foreman R. B.	Eng./Hydro. Geologist E. C.
O E P H	Sample Data			Soil and/or bedrock strata descriptions	
	Sample No.	Depth (ft.)	Blows Penetration	Rec. Inches	Casing Blows Per ft.
		8"			Strata Chance
					Visual Identification of Soil and/or Rock Strata
	1	0'-0" - 1'0"	35		
	2	1'0" - 4'0"	121		
5	3	4'6" - 5'5"	50-100/5"		
	4	6'6" - 8'6"	11		616"
10	5	9'6" - 10'6"	22-100/6"		8'6"
15	6	14'0" - 14'2"	12012"		1310
	7	roller bit			14'0"
20					15'6"
25					
30					
35					
40					
Type of Boring		Casing Size:	Hollow Stem Auger Size:	4"	
Proportion Percentages Trace 0 to 10% Some 10 to 40% And 40 to 50%		Granular Soils (blows per ft.) 0 to 4 Very Loose 30 to 50 Dense 4 to 10 Loose Over 50 Very Dense 10 to 30 Medium Dense		Cohesive Soils (blows per ft.) 0 to 2 Very Soft 8 to 15 Stiff 2 to 4 Soft 15 to 30 Very Stiff 4 to 8 Medium Stiff Over 30 Hard	
Standard penetration test (SFR) . 140# hammer falling 30° Blows are per 5° taken with an 18" long x 2" O.D. x 1 3/8" I.D. split spoon sampler unless otherwise noted.					

The terms and percentages used to describe soil and or rock are based on visual identification of the retrieved samples. **U** Moisture content indicated may be affected by time of year and water added during the drilling process. If Water levels indicated may vary with seasonal fluctuation and the degree of soil saturation when the boring was taken. **\$** The stratification lines represent the approximate boundaries between soil types, the actual transitions may be gradual. **11**

Client WOODWARD AND CURRAN		Date 06/02/89		Job No. 89-0300F	
Location MECHANIC FALLS, MAINE					
BORING NO.	B-102	Ground Elev.	•	Date Start	06/01/89
		Date Complete		Foreman	REJIG
		Eng./Hydrol. Geologist		Geologist	F.C.F.C.
X-101101	Sample Data			Soil and/or bedrock strata descriptions	
	Sample No.	Depth (ft)	Blows Penetration 6'	Rec. Inches	Casing Blows Per ft.
5	10' 0" — 1' 6"	2-2-2			
	22' 0" — 4' 0"	4 replicar			1' 6"
	34' 6" — 5' 4"	54-100/4"			
10	46' 0" — 7' 0"	nolaitri			6' 0"
					7' 0"
15					
20					
25					
30					
35					
40					
Type of Boring		Casing Size:		Hollow Stem Auger Size: 4i	
Proportion Percentages Trace 0 to 10% Some 10 to 40% And 40 to 50%		Granular Soils (blows per ft.) 0 to 4 Very Loose 30 to 50 Dense 4 to 10 Loose Over 50 Very Dense 10 to 30 Medium Dense		Cohesive Soils (blows per ft.) 0 to 2 Very Soft 8 to 15 Stiff 2 to 4 Soft 15 to 30 Very Stiff 4 to 8 Medium Stiff Over 30 Hard	
Standard penetration test (SPT) = 140" hammer falling 30" Blows are per 6" taken with an 18" long x 2" O.D. x 1 3/8" I.D. split spoon sampler unless otherwise noted.					
The terms and percentages used to describe soil and or rock are based on visual identification of the retrieved samples. I Moisture content indicated may be affected by time of year and water added during the drilling process. ■ Water levels indicated may vary with seasonal fluctuation and the degree of soil saturation when the boring was taken. II The stratification lines represent the approximate boundaries between soil types, the actual transitions may be gradual. I					

148 Pioneer Dr.
Leominster, MA 01453
(617) 840-0391

SOIL EXPLORATION CORPORATION

Geotechnical Drilling and Groundwater Monitor Wells

23 Ingalls St.
Nashua, NH 03060
(603) 882-3601

Client WOODWARD AND CURRAN		Date 06/02/89		Job No. 89-0300 F			
Location MECHANIC FALLS , MAINE							
BORING NO. B-103	Ground Elev.	Date 06/01/89	Date 06/01/89	Drilling Foreman R.B.	Eng./Hydrol. E. C.		
			Complete Geologist				
C.A.-M	Sample Data			Soil and/or bedrock strata descriptions			
	Sample No.	Depth (ft.)	Blows 6" Penetration	Rec. Inches	Casing Blows Per ft.	Strata Change Depth	Visual Identification of Soil and/or Rock Strata
	1	0'0" - 7'0"	100/4				TOPSOIL.
	2	2'0" - 4/011	sample take from fl. h			2'0"	Wet, inorganic SILT, some fine to medium sand, and organic silt, trace rnhhing
5		3'6"	27.67.89			4'0"	Hard, damp, inorganic SILT, and fine sand, soem clay, and fine to medium gravel.
10		4'9"	9'4"	100/4"			
15		5'10"	10'6"	sample, taloca		10'6"	End of boring at 10'6" Set well point at 10'6" Water level at 1'0" upon completion
20							
25						25	
30							
35							
40							
Type of Boring		Casing Size:		Hollow Stem Auger Size:			
				4 i -			
Proportion Percentages Trace 0 to 10% Some 10 to 40% And 40 to 50%		Granular Soils (blows per ft.) 0 to 4 Very Loose 30 to 50 Dense 4 to 10 Loose Over 50 Very Dense 10 to 30 Medium Dense		Cohesive Soils (blows per ft.) 0 to 2 Very Soft 8 to 15 Stiff 2 to 4 Soft 15 to 30 Very Stiff 4 to 8 Medium Stiff Over 30 Hard			
Standard penetration test (SPT) = 140# hammer falling 30" Blows are per 6" taken with an 18" long x 2" O.D. x 1 3/8" I.O. •split spoon sampler unless otherwise noted.							

The terms and percentages used to describe soil and or rock are based on visual identification of the retrieved samples. If Moisture content indicated may be affected by time of year and water added during the drilling process. •I Water levels indicated may vary with seasonal fluctuation and the degree of soil saturation when the boring was taken. II The stratification lines represent the approximate boundaries between soil types, the actual transitions may be gradual. If

148 Pioneer Dr.
Leominster, MA 01453
(617) 840-0391

SOIL EXPLORATION CORPORATION

Geotechnical Drilling and Groundwater Monitor Wells

23 Ingalls St.
Nashua, NH 03060
(603) 882-3601

Client	WOODWARD AND CURRAN				Date	06/02/89	Job No.	89-0300 F			
Location	MECHANIC FALLS , MAINE										
BORING NO.	B-104	Ground Elev.		Date Start	06/01/89	Date Complete	06/02/89	Drilling Foreman	R.B.	Eng./Hydro. Geologist	E.C.
DEPTH (ft.)	Sample Data				Soil and/or bedrock strata descriptions						
	No.	Depth (ft.)	Blows 8" Penetration	Rec. Inches	Casing Blows Per ft.	Strata Change Depth	Visual Identification of Soil and/or Rock Strata				
5		1' 0"	ntnliliti			1'0"	TOPSOIL. Hard, moist to wet, inorganic SILT, and fine sand, some fine to coarse gravel.				
		2'0" - 2'6"	Sample, taken								
		3'6" - 6'0"	44-28-57								
10		6'0" - 10'0"	typical			977u	Run #1 CORED ROCK from 9'7" to 14'0".				
		9'6" - 9'7"	120/1"								
15						14'0"	End of boring at 14'0" Set well point at 14'0" Water level at 8'0" upon completion				
20						14'0"	End of boring at 14'0" Set well point at 14'0" Water level at 8'0" upon completion				
25						14'0"	End of boring at 14'0" Set well point at 14'0" Water level at 8'0" upon completion				
30						14'0"	End of boring at 14'0" Set well point at 14'0" Water level at 8'0" upon completion				
35						14'0"	End of boring at 14'0" Set well point at 14'0" Water level at 8'0" upon completion				
40						14'0"	End of boring at 14'0" Set well point at 14'0" Water level at 8'0" upon completion				
Type of Boring	Casing Size:		Hollow Stem Auger Size:		4						
Proportion Percentages Trace 0 to 10% Some 10 to 40% And 40 to 50%			Granular Soils (blows per ft.) 0 to 4 Very Loose 30 to 50 Dense 4 to 10 Loose Over 50 Very Dense 10 to 30 Medium Dense				Cohesive Soils (blows per ft.) 0 to 2 Very Soft 8 to 15 Stiff 2 to 4 Soft 15 to 30 Very Stiff 4 to 8 Medium Stiff Over 30 Hard				
Standard penetration test (SET) = 140# hammer falling 30" Blows are per 6" taken with an 18" long x 2" O.R. x 1 3/8" LD. split spoon sampler unless otherwise noted.											

• The terms and percentages used to describe soil and or rock are based on visual identification of the retrieved samples. **N** Moisture content indicated may be affected by time of year and water added during the drilling process. **I** Water levels indicated may vary with seasonal fluctuation and the degree of soil saturation when the boring was taken. **I** The stratification lines represent the approximate boundaries between soil types, the actual transitions may be gradual. **■**

SOIL EXPLORATION CORPORATION 23 Ingalls St.

Leominster, MA 01453 Tel: 338-3222

Client: **WOODWARD AND CURRAN** Date: **06/02/89** Job No. **89-0300 F**

Location: **MECHANIC FALLS, MAINE**

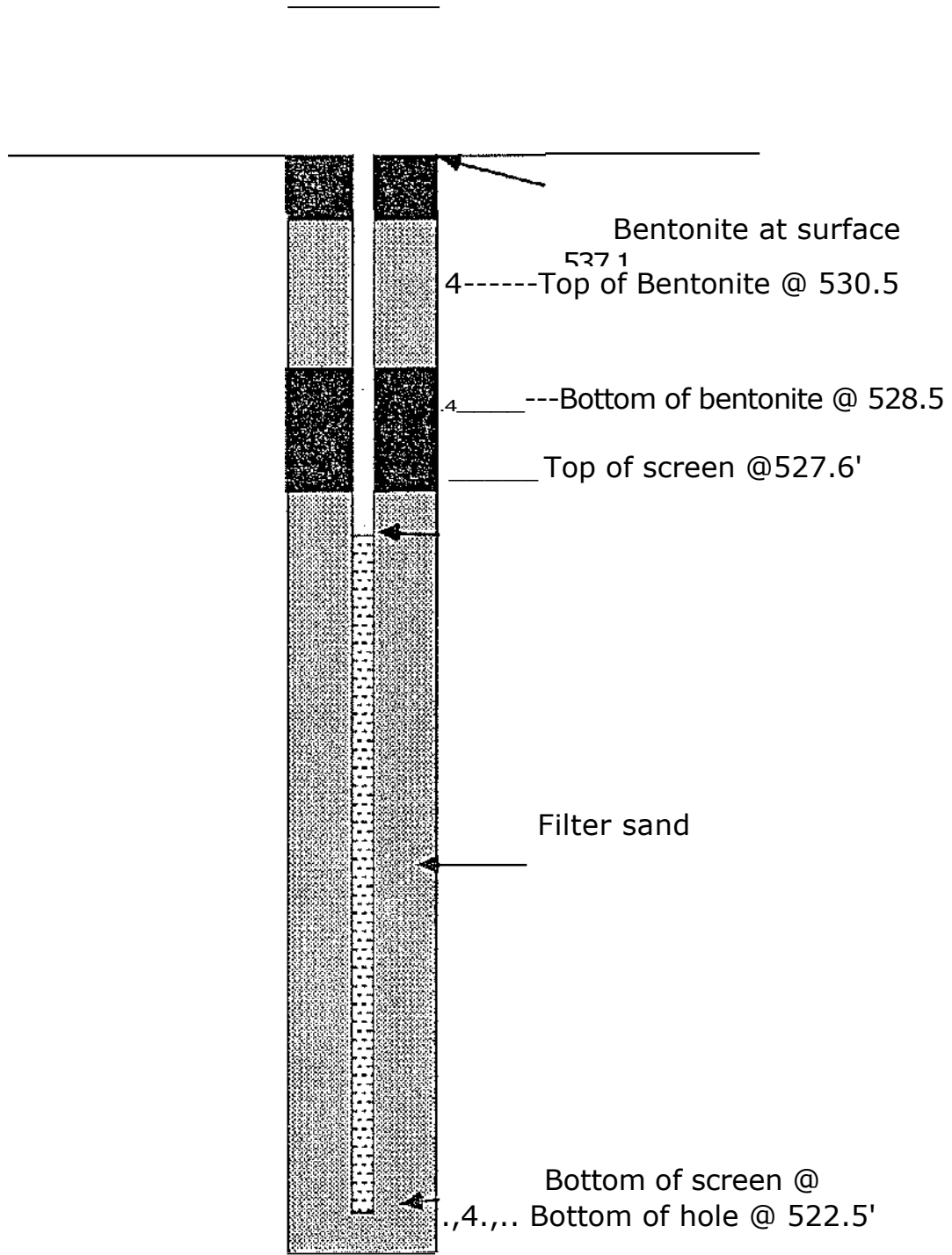
BORING NO. **B-105** Ground Elev. **06/02/89** Date Complete **06/02/89** Drilling Foreman **R.B. Eng./HydroL Geologist** E.C.

OW C M	Sample Data					Soil and/or bedrock strata descriptions	
	Sample		Slows 6" Penetration	Rec. Inches	Casing Blows Per ft.	Strata Change Depth	Visual Identification of Soil and/or Rock Strata
	No	Depth (ft)					
5	1	0'0" - 1'6"	over 100			1'0"	TOPSOIL.
	2	1'6" - 4'0"	sample taken				Wet, fine to coarse SAND, some fine to medium gravel, and inorganic silt.
	3	4'0" - 6'0"	24-31-45			4'0"	Hard, damp, inorganic SILT, and clay, some fine to medium gravel, (till).
10							
	4	9'6" - 11'0"	37-49-55				
15	5	14'6" - 15'4"	77-100/4"			14'0"	Hard, damp, inorganic SILT, and clay, some fractured rock.
						16'0"	Refusal at 16'0" Set well point at 16'0" Water level at 11'0" upon completion
20							
25							
30							
35							
40							

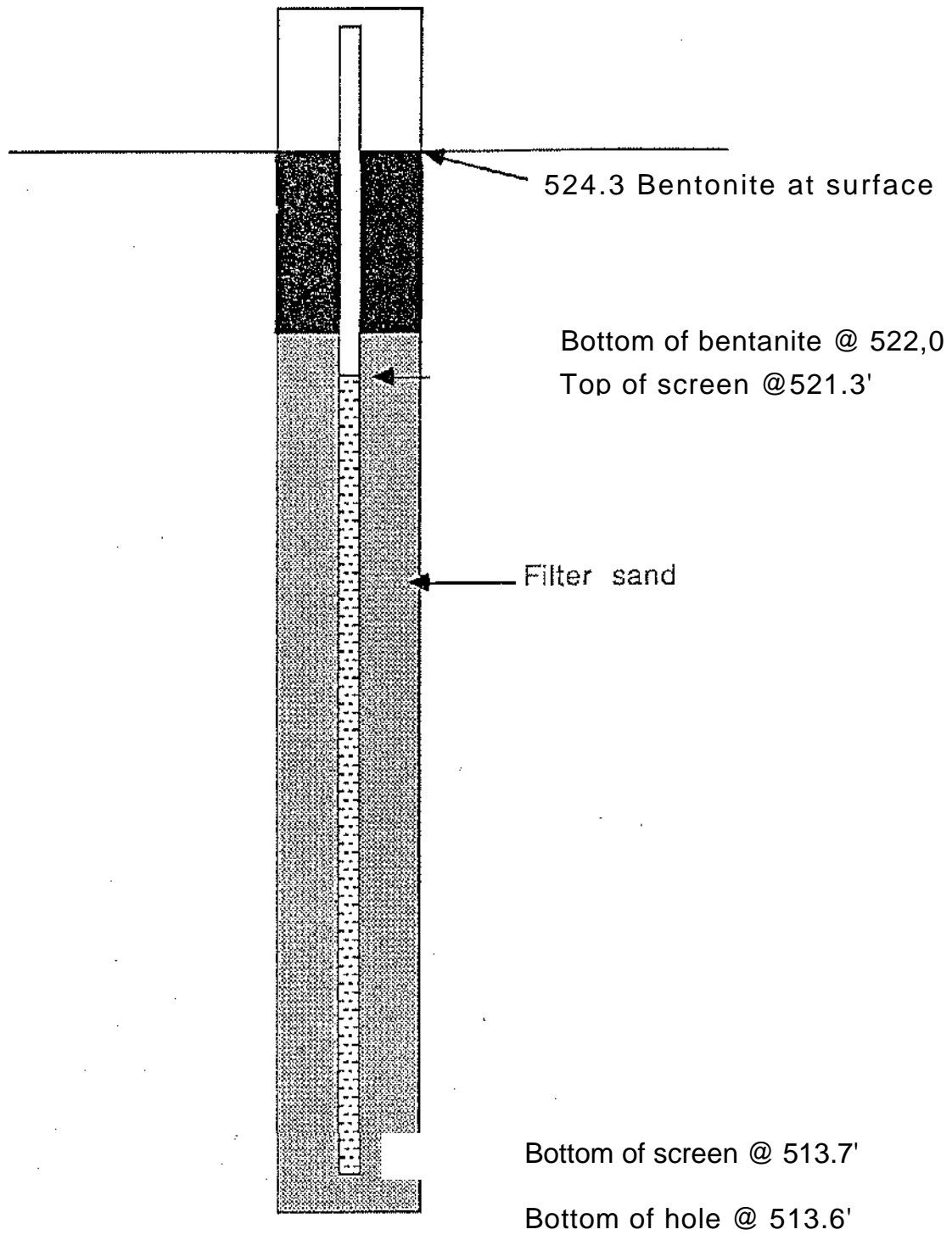
Type of Boring: _____ Casing Size: _____ Hollow Stem Auger Size: _____ 4'

Proportion Percentages Trace 0 to 10% Some 10 to 40% And 40 to 50%	Granular Soils (blows per ft.) 0 to 4 Very Loose 30 to 50 Dense 4 to 10 Loose Over 50 Very Dense 10 to 30 Medium Dense	Cohesive Soils (blows per ft.) 0 to 2 Very Soft 8 to 15 Stiff 2 to 4 Soft 15 to 30 Very Stiff 4 to 8 Medium Stiff Over 30 Hard
	Standard penetration test (SF1) . 140# hammer falling 30" Blows are per 6" taken with an 18" long x 2" O.D. x 1 3/8" I.D. split spoon sampler unless otherwise noted.	

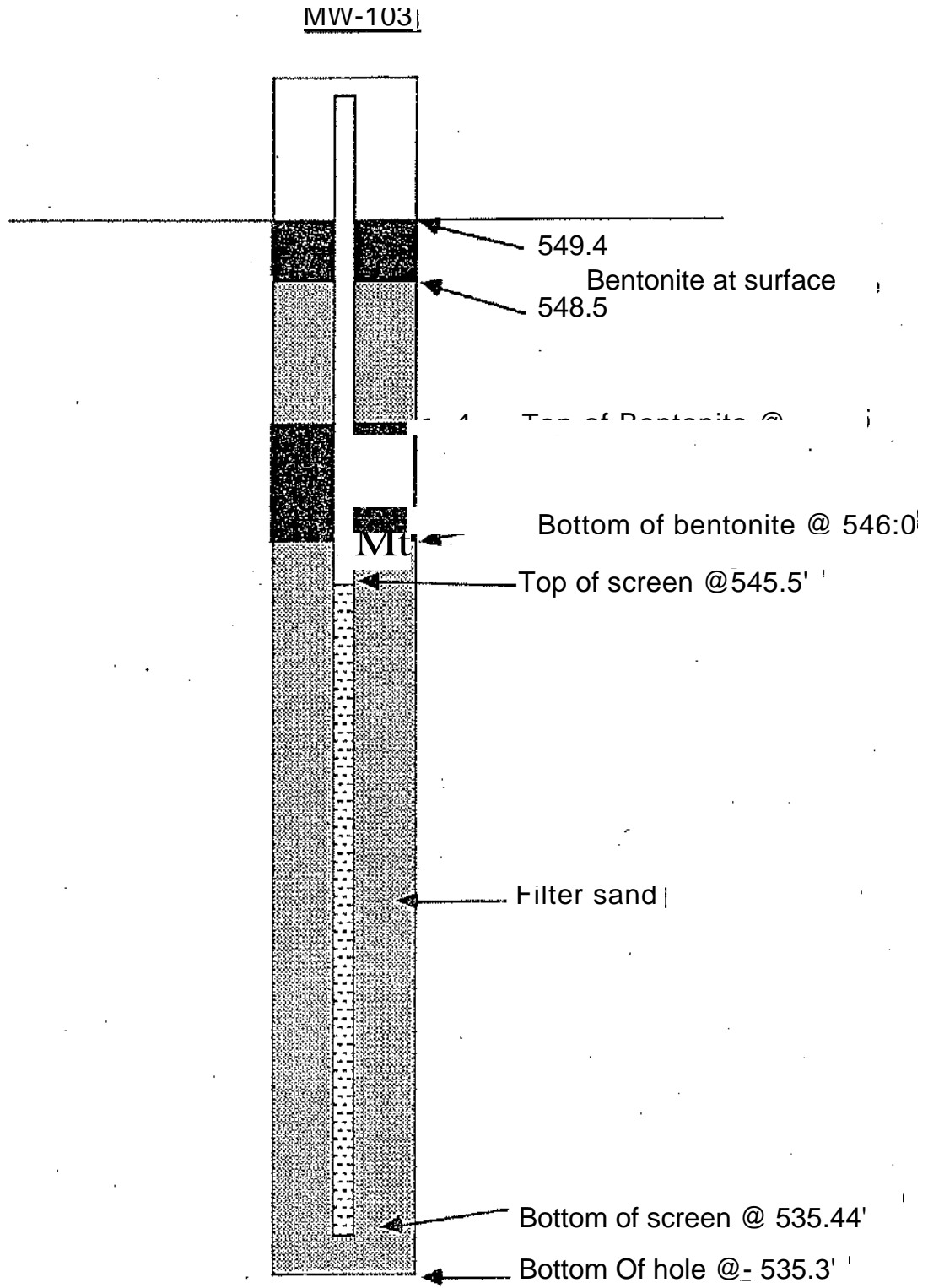
The terms and percentages used to describe soil and or rock are based on visual identification of the retrieved samples. I Moisture content indicated may be affected by time of year and water added during the drilling process. I Water levels indicated may vary with seasonal fluctuation and the degree of soil saturation when the boring was taken. I The stratification lines represent the approximate boundaries between soil types, the actual transitions may be gradual. II



WOODARD & CURRAN INC.
MW-102

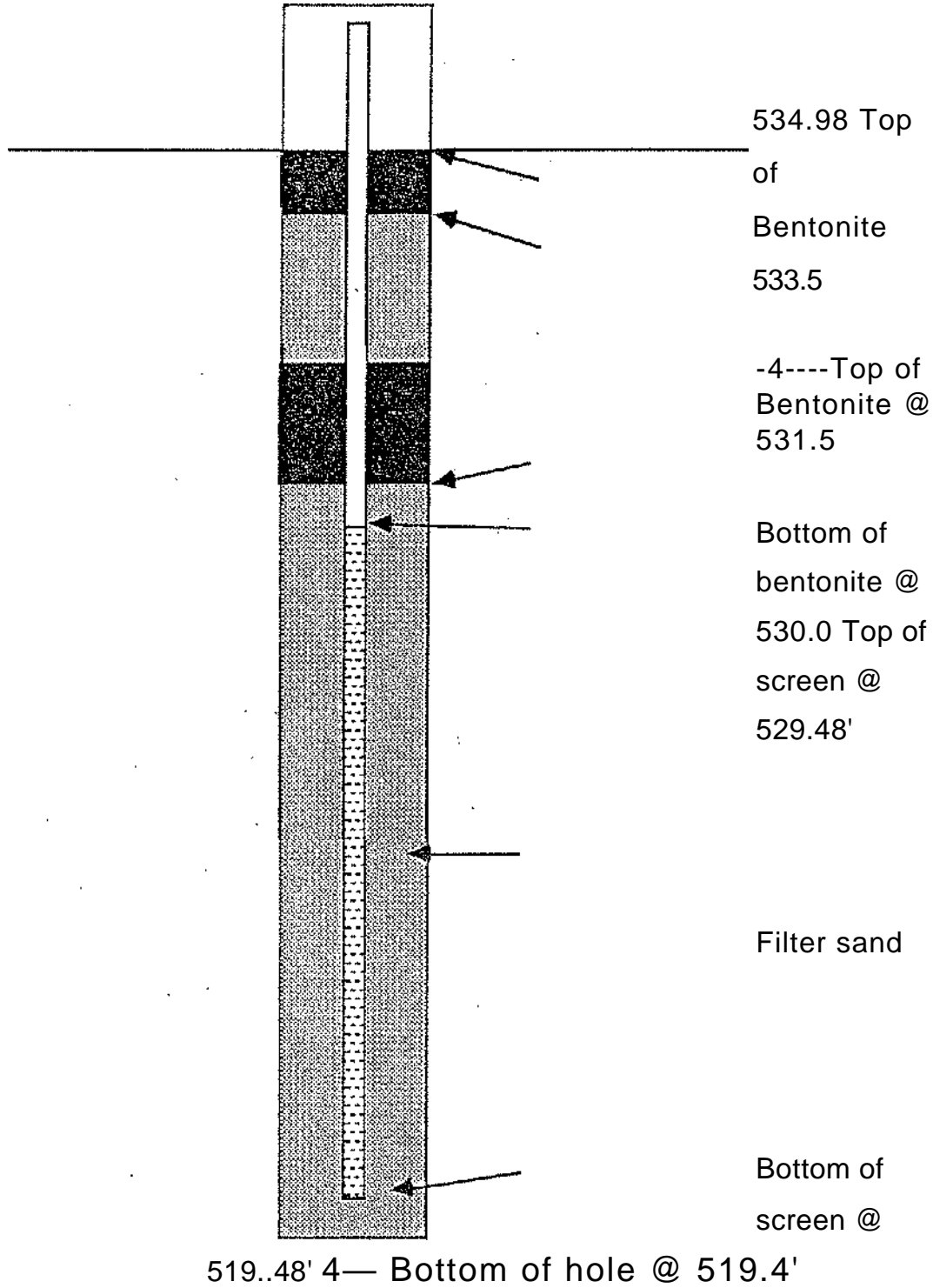


WOODARD & CURRAN INC.



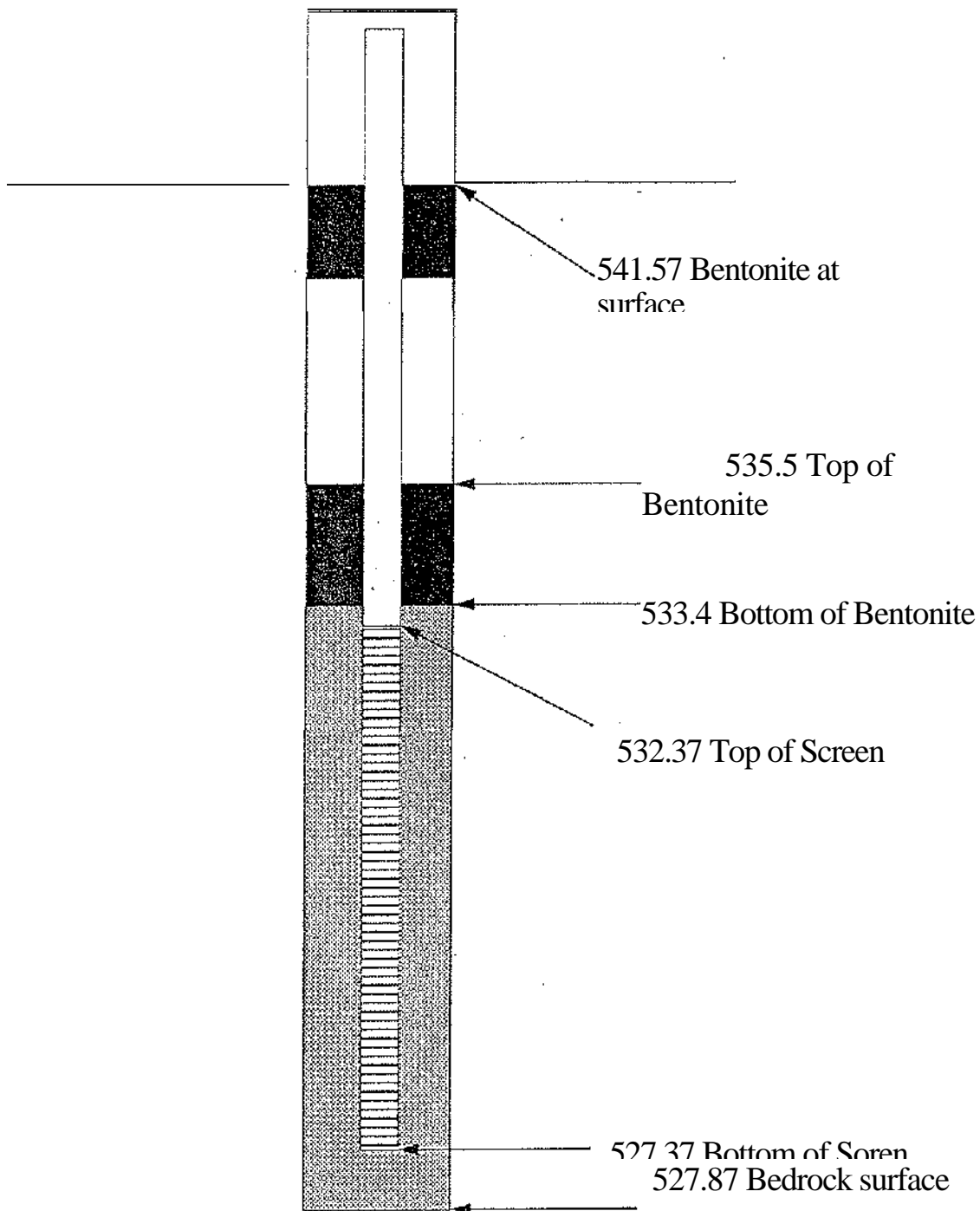
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WOODARD & CURRAN INC.
MW-104



WOODARD & CURRAN INC

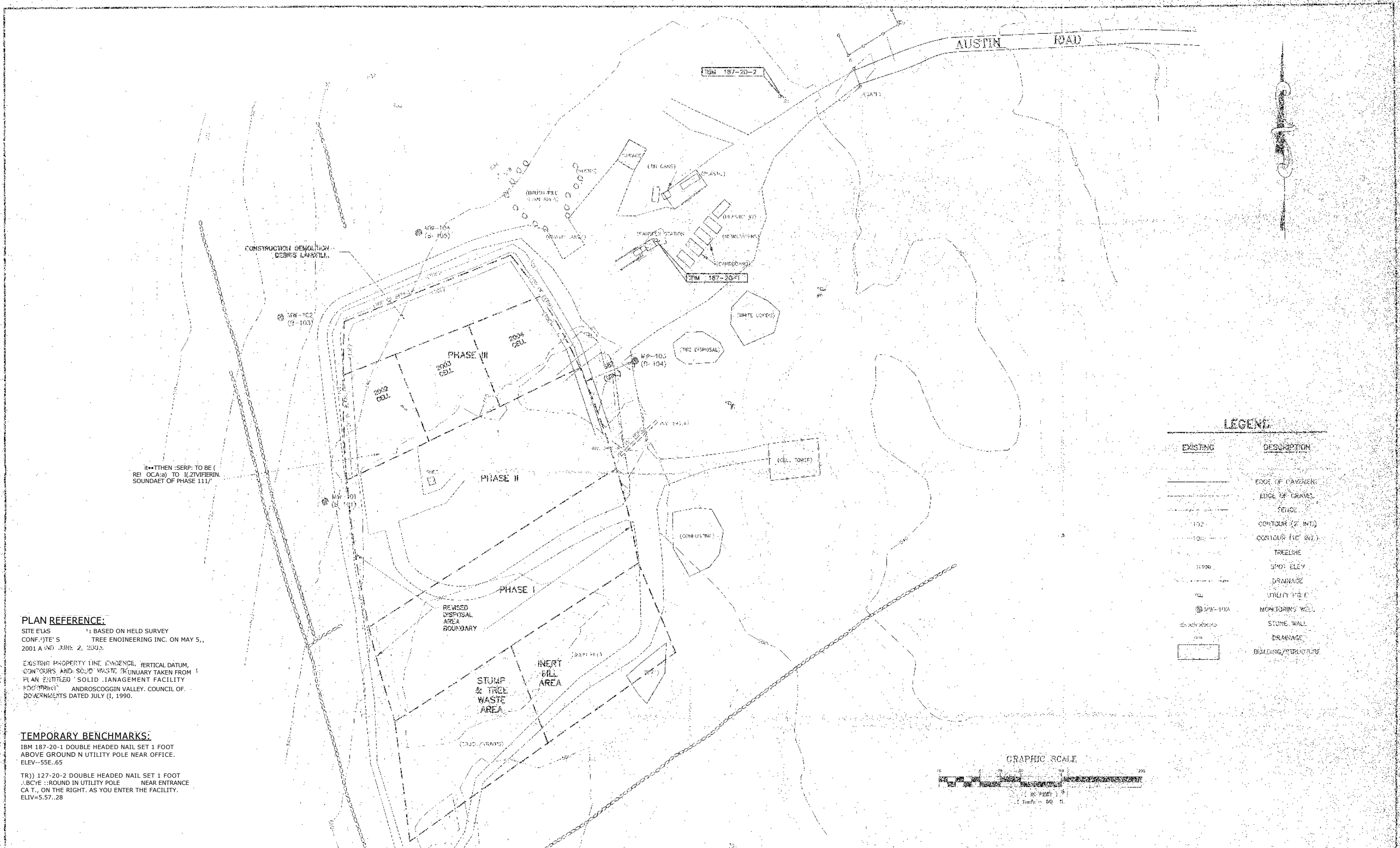
MW-105



H22

APPENDIX I

Updated Site Plan



LEGEND

EXISTING	DESCRIPTION
---	EDGE OF LAWN
---	EDGE OF GRAVEL
---	FENCE
---	CONTOUR (2' INT)
---	CONTOUR (10' INT)
---	TREELINE
---	SPOT ELEV
---	DRAINAGE
---	UTILITY POLE
---	MONITORING WELL
---	STONE WALL
---	DRAINAGE
---	BUILDING/STRUCTURE

PLAN REFERENCE:

SITE ELKS 11 BASED ON HELD SURVEY
 CONFIDENTIAL TREE ENGINEERING INC. ON MAY 5,
 2001 AND JUNE 2, 2003.

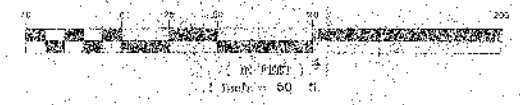
EXISTING PROPERTY LINE EVIDENCE, VERTICAL DATUM,
 CONTOURS AND SOLID WASTE BOUNDARY TAKEN FROM
 PLAN ENTITLED "SOLID WASTE MANAGEMENT FACILITY
 FOR THE ANDROSCOGGIN VALLEY, COUNCIL OF
 GOVERNMENTS DATED JULY (1), 1990.

TEMPORARY BENCHMARKS:

IBM 187-20-1 DOUBLE HEADED NAIL SET 1 FOOT
 ABOVE GROUND N UTILITY POLE NEAR OFFICE.
 ELEV=55E.65

TR) 127-20-2 DOUBLE HEADED NAIL SET 1 FOOT
 ABOVE GROUND N UTILITY POLE NEAR ENTRANCE
 CA T., ON THE RIGHT. AS YOU ENTER THE FACILITY.
 ELEV=55.7.28

GRAPHIC SCALE



8/15/03 9/27 REV DATE STATUS	UPDATE SITE PLAN CELL DEVELOPMENT / ACCESS ROADS STATUS	S) ; RLP RLP RLP PPD		DESIGNER: SYC b-o ET/RSB	Pine Tree Engineering 53 Front Street Bath, Maine 04611 Tel: (207) 113-1151 Fax: (707) 112-1111	CLIENT TOWN OF MECHANIC FALLS 108 MECH MAINE 04256	PROJECT NO. SOLID WASTE FACILITY	SCALE 1" = 50' PROJECT NO. DRAWING NO. SHEET NO.
				CHECKED BY: RLP APPROVED BY: RLP DATE: 3/23/01				