



STATE OF MAINE
Department of Environmental Protection

John Elias Baldacci
GOVERNOR

David P. Littell
COMMISSIONER

June 8, 2010

Mr. Jason Silberman
Camp Matoaka
One Great Place
Smithfield, ME 04978

RE: Permit Compliance System Tracking Number # MEU506097
Maine Waste Discharge License (WDL) Application # W006097-5J-E-R
Final License

Dear Mr. Silberman:

Enclosed, please find a copy of your **final** Maine WDL, which was approved by the Department of Environmental Protection. Please read the license and its attached conditions carefully. You must follow the conditions in the order to satisfy the requirements of law. Any discharge not receiving adequate treatment is in violation of State law and is subject to enforcement action.

Any interested person aggrieved by a Department determination made pursuant to applicable regulations, may appeal the decision following the procedures described in the attached DEP FACT SHEET entitled "*Appealing a Commissioner's Licensing Decision.*"

If you have any questions regarding the matter, please feel free to call me at 287-7693 or send me an e-mail at gregg.wood@maine.gov.

Sincerely,

A handwritten signature in cursive script, appearing to read 'G. Wood'.

Gregg Wood
Division of Water Quality Management
Bureau of Land and Water Quality

Enc.

cc: Beth DeHaas, DEP/EMRO Sandy Mojica, USEPA
Robert Johnson, Coastal Waste Water Services



STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION
17 STATE HOUSE STATION
AUGUSTA, ME 04333

**DEPARTMENT ORDER
IN THE MATTER OF**

| | | |
|------------------------------------|---|----------------------------|
| CAMP MATOAKA |) | PROTECTION AND IMPROVEMENT |
| SMITHFIELD, SOMERSET COUNTY, MAINE |) | OF WATER |
| SURFACE WASTEWATER DISPOSAL SYSTEM |) | |
| MEU506097 |) | WASTE DISCHARGE LICENSE |
| W006097-5J-E-R |) | RENEWAL |
| APPROVAL |) | |

Pursuant to the provisions of 38 M.R.S.A., Section 414-A et seq., and applicable regulations, the Department of Environmental Protection (Department hereinafter) has considered the application of CAMP MATOAKA (licensee hereinafter) with its supportive data, agency review comments, and other related materials on file and FINDS THE FOLLOWING FACTS:

APPLICATION SUMMARY

The licensee has submitted a timely and complete application with the Department for the renewal of Waste Discharge License (WDL) #W006097-5J-D-R, which was issued by the Department on July 22, 2005 and is due to expire on July 22, 2010. The application is for the continuing operation of a spray irrigation waste water disposal system on a 3.245 acre site for the treatment and seasonal disposal of sanitary waste water generated at a rate of 18,000 gallons per day from Camp Matoaka in Smithfield, Maine.

LICENSE SUMMARY

This licensing action is carrying forward all the terms and conditions of the 7/22/05 licensing action except that this license:

1. Replaces the daily maximum concentration limits for biochemical oxygen demand (BOD) and total suspended solids (TSS) with a “report” only requirement.
2. Eliminates the ground water quality monitoring and reporting requirements for chloride, temperature, pH, TSS and the eight metals listed as inorganics.
3. Requires the person in responsible charge of waste water treatment facility be a certified operator pursuant to Department rule, Chapter 531.
4. Expanding seasonal spray season from April 15th – November 30th of each year to April 1st – November 30th each year.

CONCLUSIONS

BASED on the findings in the attached Fact Sheet dated May 5, 2010, and subject to the Conditions listed below, the Department makes the following conclusions:

1. The discharge, either by itself or in combination with other discharges, will not lower the quality of any classified body of water below such classification.
2. The discharge, either by itself or in combination with other discharges, will not lower the quality of any unclassified body of water below the classification which the Department expects to adopt in accordance with state law.
3. The provisions of the State's antidegradation policy, 38 MRSA Section 464(4)(F), will be met, in that:
 - (a) Existing water uses and the level of water quality necessary to protect and maintain those existing uses will be maintained and protected;
 - (b) Where high quality waters of the State constitute an outstanding national resource, that water quality will be maintained and protected;
 - (c) The standards of classification of the receiving water body are met or, where the standards of classification of the receiving water body are not met, the discharge will not cause or contribute to the failure of the water body to meet the standards of classification;
 - (d) Where the actual quality of any classified receiving water body exceeds the minimum standards of the next highest classification, that higher water quality will be maintained and protected; and
 - (e) Where a discharge will result in lowering the existing quality of any water body, the Department has made the finding, following opportunity for public participation, that this action is necessary to achieve important economic or social benefits to the State.
4. The discharge will be subject to effluent limitations that require application of best practicable treatment.

ACTION

THEREFORE, the Department APPROVES the above noted application of CAMP MATOAKA, to operate a surface waste water disposal system to discharge up to 54,300 gallons per acre per week (or up to 176,200 gallons over the 3.245 acre spray irrigation area per week) SUBJECT TO THE FOLLOWING CONDITIONS, and all applicable standards and regulations including:

1. *Standard Conditions of Industrial Waste Discharge Licenses* (Revised August 14, 1996), copy attached.
2. The attached Special Conditions, including effluent limitations and monitoring requirements.
3. This license expires five (5) years from the date of signature below.

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: April 5, 2010
Date of application acceptance: April 6, 2010

This Order prepared by Gregg Wood, Bureau of Land & Water Quality
MEU506097 2010 6/8/10

SPECIAL CONDITIONS

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning the effective date of the license, the licensee is authorized to operate a surface waste water treatment and disposal system. The **LAGOON MONITORING (OUTFALL #001)** ⁽¹⁾ shall be limited and monitored as specified below.

| | Daily Maximum as specified | Minimum Measurement Frequency As specified | Sample Type as specified |
|--|--|--|--|
| Biochemical Oxygen Demand (Lagoon Effluent) <i>[00310]</i> | Report <i>[19]</i> | 2/Year ⁽²⁾ <i>[02/YR]</i> | Grab <i>[GR]</i> |
| Total Suspended Solids (Lagoon Effluent) <i>[00530]</i> | Report <i>[19]</i> | 2/Year ⁽²⁾ <i>[02/YR]</i> | Grab <i>[GR]</i> |
| Nitrate-Nitrogen (Lagoon Effluent) <i>[00620]</i> | Report mg/L <i>[19]</i> | 2/Year ⁽²⁾ <i>[02/YR]</i> | Grab <i>[GR]</i> |

The bracketed italicized numeric values in the table above are code numbers that the Department personnel utilize to code the monthly Discharge Monitoring Reports.

Footnotes: See page 7 of this license.

SPECIAL CONDITIONS

A. LIMITATIONS AND MONITORING REQUIREMENTS

2. Application of waste water to the land via a spray irrigation system shall be limited to the time frame of April 1st – November 30th of each year. The **SPRAY IRRIGATION AREAS (OUTFALL #002)** shall be limited and monitored as specified below.

APRIL 1st – NOVEMBER 30th

| II | Monthly Total as specified | Weekly Maximum as specified | Daily Maximum as specified | Minimum Measurement Frequency as specified | Sample Type as specified |
|---|--|--|--|--|--|
| Application Rate (Daily) ⁽⁴⁾ <i>[01287]</i> | --- | 54,300 gal/acre/week ⁽⁵⁾ <i>[8B]</i> | --- | 1/Day <i>[01/01]</i> | Calculate <i>[CA]</i> |
| Flow - Total Gallons ⁽³⁾ <i>[82220]</i> | Report (Gallons) <i>[80]</i> | --- | --- | 1/Month <i>[01/30]</i> | Calculate <i>[CA]</i> |
| Lagoon Level (Freeboard) <i>[82564]</i> | | | Report, Feet <i>[27]</i> | 1/Week <i>[01/07]</i> | Measure <i>[MS]</i> |

The bracketed italicized numeric values in the table above are code numbers that the Department personnel utilize to code the monthly Discharge Monitoring Reports.

Footnotes: See page 7 of this license. . Lagoon Level (Freeboard) shall be reported as the number of feet (nearest 0.1 feet) between the lagoon water level and the lowest elevation of the lagoon berms. For reporting on the DMR form, the minimum freeboard level shall be recorded. If freeboard is less than two (2) feet, then measurement frequency shall be once per day. pH range shall not exceed the values expressed above.

SPECIAL CONDITIONS

A. LIMITATIONS AND MONITORING REQUIREMENTS

3. During the period beginning the effective date of the license, **GROUND WATER MONITORING WELLS; MW-1, MW-2, & MW-3** shall be limited and monitored as follows:

| <u>Monitoring Parameters</u> | <u>Daily Maximum as specified</u> | <u>Minimum Measurement Frequency as specified</u> | <u>Sample Type as specified</u> |
|--|---|---|---------------------------------|
| Depth to Water Level Below Landsurface <i>[72019]</i> | Report (feet) ⁽⁶⁾ <i>[27]</i> | 2/Year ⁽⁷⁾ <i>[02/YR]</i> | Measure <i>[MS]</i> |
| Nitrate-Nitrogen <i>[00620]</i> | 10 mg/L <i>[19]</i> | 2/Year ⁽⁸⁾ <i>[02/YR]</i> | Grab <i>[GR]</i> |
| Specific Conductance <i>[00095]</i> | Report (umhos/cm) <i>[11]</i> | 2/Year ⁽⁸⁾ <i>[02/YR]</i> | Grab <i>[GR]</i> |

Footnotes: - See page 7 of this license.

SPECIAL CONDITIONS

A. LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)

Footnotes – [Special Condition A(1), A(2) & A(3)]

Lagoon Effluent

1. Lagoon effluent shall be sampled (sampling location is the sampling port on the effluent pipe leading from the lagoon pumphouse to the spray irrigation area) and shall be representative of what is actually sprayed on the fields. Any change in sampling location must be approved by the Department in writing. Sampling and analysis must be conducted in accordance with; a) methods approved in 40 Code of Federal Regulations (CFR) Part 136, b) alternative methods approved by the Department in accordance with the procedures in 40 CFR Part 136, or c) as otherwise specified by the Department. Samples that are sent out for analysis shall be analyzed by a laboratory certified by the State of Maine's Department of Human Services. Samples that are sent to a POTW licensed pursuant to *Waste discharge licenses*, 38 M.R.S.A. § 413 are subject to the provisions and restrictions of *Maine Comprehensive and Limited Environmental Laboratory Certification Rules*, 10-144 CMR 263 (last amended February 13, 2000).

All analytical test results shall be reported to the Department including results which are detected below the respective reporting limits (RLs) specified by the Department or as specified by other approved test methods. If a non-detect analytical test result is below the respective RL, the concentration result shall be reported as <Y where Y is the detection limit achieved by the laboratory for each respective parameter. Reporting a value of <Y that is greater than an established RL is not acceptable and will be rejected by the Department. For mass, if the analytical result is reported as <Y or if a detectable result is less than a RL, report a <X lbs/day, where X is the parameter specific limitation established in the permit.

2. Lagoon parameters/effluent shall be sampled in the months of **July and August** of each calendar year in accordance with approved methods for sampling, handling and preservation (see footnote #1). Samples that are sent out for analysis shall be analyzed by a laboratory certified by the State of Maine's Department of Human Services. The licensee is not required to test for these parameters during a month where no waste water was disposed of via the spray irrigation system
3. The licensee shall estimate the flow of waste water to the irrigation area based upon the number of hours that the pump is operated per day (e.g., timer settings) and the maximum flow rate of the pump as determined by the manufacturer's pump curves. The methodology shall be checked for calibration at least once per calendar year.

SPECIAL CONDITIONS

A. LIMITATIONS AND MONITORING REQUIREMENTS (CONT'D)

Footnotes – [Special Condition A(1), A(2) & A(3)]

Spray-Irrigation

4. A field's daily or weekly application rate is the total gallons sprayed over the applicable period of time divided by the size of the wetted area of the spray-irrigation field in acres or the size in acres of that portion of the field utilized. Note: 27,152 gallons is equivalent to one inch-acre. Weekly is defined as Sunday through Saturday.
5. For Discharge Monitoring Report (DMR) reporting purposes, the licensee shall report the highest weekly application rate for the month in the applicable box on the form and the monthly total discharge. Compliance with weekly reporting requirements must be reported for the month in which the calendar week ends.

Ground Water Monitoring

6. Measured to the nearest one-tenth ($1/10^{\text{th}}$) of a foot as referenced from the surface of the ground at the base of the monitoring well.
7. Depth to water level below land surface shall be conducted in the months of **May, and October** of each calendar year.
8. **Groundwater sampling shall be conducted in the months of May and October** of each calendar year (except for inorganics testing which shall occur in the first year of the license and results shall be submitted with the DMR form by December 15th of this year and as an attachment to an application for renewal of the WDL). Sampling, handling and preservation shall be conducted in accordance with federally approved methods (see footnote #1). Specific conductance (calibrated to 25.0° C), pH and temperature are considered to be a "field" parameters and are generally to be measured in the field via instrumentation. The licensee is required to test for these parameters whether wastewater was disposed of via the spray-irrigation system or not. Specific Conductance values greater than 275 umhos/cm, consistent trends approaching 275 umhos/cm or sudden spikes from previous levels shall be reported immediately to the Department, and may necessitate the need for additional ground water testing requirements.

SPECIAL CONDITIONS

B. TREATMENT PLANT OPERATOR

The person who has the management responsibility over the treatment facility must be operated by a person holding a minimum of a Maine **Grade SITS-I** certificate (or a Maine Professional Engineer [P.E.]) pursuant to *Sewerage Treatment Operators*, Title 32 M.R.S.A., Sections 4171-4182 and *Regulations for Wastewater Operator Certification*, 06-096 CMR 531 (effective May 8, 2006). All proposed contracts for facility operation by any person must be approved by the Department before the licensee may engage the services of the contract operator.

C. AUTHORIZED DISCHARGES

The licensee is authorized to discharge treated sanitary wastewater only in accordance with the terms and conditions of this license and only to the existing spray irrigation areas (#002) and from those sources as indicated in the Waste Discharge License Application. Discharge of waste water to any other location or from sources other than those indicated on said application requires formal modification of this license. The collection, treatment or discharge of waste water which has constituents unlike that or significantly higher in strength than that of domestic waste water is prohibited without formal modification of this license.

D. NARRATIVE EFFLUENT LIMITATIONS

1. The effluent shall not contain materials in concentrations or combination that would impair the uses designated by the classification of the groundwater.
2. The effluent must not lower the quality of any classified body of water below such classification, or lower the existing quality of any body of water if the existing quality is higher than the classification.

E. NOTIFICATION REQUIREMENT

In accordance with Standard Condition #6 of this license, the licensee shall promptly notify the Department of the any substantial change in the volume or character of pollutants being introduced into the wastewater collection and treatment system. For the purposes of this section, notice regarding substantial change shall include information on:

- (a) the quality and quantity of wastewater introduced to the wastewater collection and treatment system; and,
- (b) any anticipated impact caused by the change in the quantity or quality of the wastewater to be discharged from the treatment system.

SPECIAL CONDITIONS

F. GENERAL OPERATIONAL CONSTRAINTS

1. All waste waters shall receive pretreatment through the properly designed, operated and maintained tanks and lagoon system prior to disposal via spray irrigation.
2. The spray irrigation facilities shall be effectively maintained and operated at all times so that there is no discharge to surface waters, nor any contamination of ground waters which will render them unsatisfactory for usage as a public drinking water supply.
3. The surface waste water disposal system shall not cause lowering of the quality of the ground water, below the State Primary and Secondary Drinking Water Standards specified in the Maine State Drinking Water Regulations pursuant to Maine Law 22 M.R.S.A. § 2611. In the event groundwater monitoring indicates adverse effects, the licensee may be required to take immediate remedial action(s), which may include but are not limited to, adjustment of the irrigation schedule or application rates, a reduction of the pollutant loading, or ceasing operation of the system until the ground water attains applicable standards.
4. The Department shall be notified as soon as the licensee becomes aware of any threat to public health, unlicensed discharge of wastewater, or any malfunction that threatens the proper operation of the system, and shall be notified of any action taken to repair/correct, and prevent recurrence. Any such notification shall be made in accordance with the attached Standard Conditions #4 and 5 of this license.
5. The licensee shall maintain a file on the location of all system components and relevant features. Each component shall be mapped and field located sufficiently to allow adequate inspections and monitoring by both the licensee and the Department. Septic tanks shall be accessible for inspections and pumping. Risers shall be installed as necessary.
6. All system components including collection pipes, tanks, manholes, pumps, pumping stations, spray disposal fields, and monitoring wells shall be identified and referenced by a unique identifier (alphabetic, numeric or alpha-numeric) in all logs and reports.

G. SPRAY IRRIGATION OPERATIONAL CONSTRAINTS

1. Suitable vegetative cover shall be maintained. Waste water may not be applied to areas without sufficient vegetation or ground cover as to prevent either erosion or surface water runoff outside the designated boundaries of the spray fields.
2. At least 10 inches of separation from the ground surface to the ground water table must be present prior to spraying.
3. There shall be no ponding within the spray area or runoff outside the designated spray field boundaries as a result of operation of the spray system.

SPECIAL CONDITIONS

G. SPRAY IRRIGATION OPERATIONAL CONSTRAINTS (cont'd)

4. No waste water shall be applied to the site following a rainfall accumulation exceeding 1.0 inches within the previous 24-hour period. **A rain gauge shall be located on site to monitor daily precipitation.** The licensee shall also manage application rates by taking into consideration the forecast for rain events in the 48-hour period in the future.
5. No waste water shall be applied where there is snow present on the surface of the ground.
6. No waste water shall be applied when there is frost within the upper 10 inches of the soil profile.
7. No traffic or equipment shall be allowed in the spray-irrigation field except where installation occurs or where normal operations and maintenance is performed.

H. SPRAY IRRIGATION OPERATIONAL PROCEDURES, LOGS AND REPORTS

1. **Each day prior to irrigating**, the licensee shall visually inspect the spray irrigation site to determine if the soil moisture conditions are appropriate for spraying and all the operational constraints listed in Special Condition H above are met.
2. The licensee shall at all times maintain in good working order and operate at maximum efficiency all waste water collection, treatment and/or control facilities. **Within one hour after start-up of the spray-irrigation system**, the licensee shall walk the spray irrigation site (and maintenance staff will also periodically monitor the spray equipment throughout the day) to check the system for leakage in the piping system and determine if individual spray heads and pump(s) are functioning as designed, and verify that application rates are appropriate for the existing site conditions. Should significant malfunctions or leaks be detected, the licensee must shut down the malfunctioning portion of the spray system and make necessary repairs before resuming operation of the spray system. The licensee shall cease irrigation if ponding or runoff is observed outside the designated boundaries of the spray field(s).
3. The licensee shall maintain a daily log of all spray irrigation operations which records, the date, weather and soil conditions, rainfall, lagoon freeboard (top of lagoon to the water surface), areas irrigated, volume sprayed (gallons), application rates (daily and hourly), and other relevant observations/comments from daily inspections. The log shall be in accordance with the format of the "*Monthly Operations Log*" provided as **Attachment "A"** of this license.

SPECIAL CONDITIONS

H. SPRAY IRRIGATION OPERATIONAL PROCEDURES, LOGS AND REPORTS

Weekly spray application rates shall be reported in accordance with the format of the "*Spray Application Report by Week*" provided as **Attachment "B"** of this license. The daily operational logs and weekly spray application reports for each month shall be submitted to the Department as an attachment to the monthly Discharge Monitoring Reports (DMR's). Copies will also be maintained on site for Department review and for license operation maintenance purposes.

4. The permittee shall install the equivalent of one ground water level inspection well within the spray area to verify that 10 inches of separation from the ground surface to the observed groundwater level is present prior to spraying. Depths to ground water shall be recorded in accordance with the format of "*Depth to Groundwater*" provided as **Attachment "C"** of this license.

I. VEGETATION MANAGEMENT

1. The licensee shall remove grasses and other vegetation, such as shrubs and trees if necessary so as not to impair the operation of the spray-irrigation system, ensure uniform distribution of waste water over the desired application area and optimize nutrient uptake and removal.
2. The vegetative buffer zones along the perimeter of the site shall be maintained to maximize vegetation and forest canopy density in order to minimize off-site drift of spray.

J. LAGOON MAINTENANCE

1. The banks of the lagoon shall be inspected weekly during the operating season and properly maintained. There shall be no overflow through or over the banks. Any signs of leaks, destructive animal activity, or soil erosion of the berms shall be repaired immediately.
2. Maintenance of the banks of the lagoon shall be conducted to keep them free of woody vegetation and other vegetation that may be detrimental to the integrity of the berm and or lagoon liner. Certain mature pines located on a portion of the berm have been determined to not be detrimental and may remain in place.
3. The waters within the lagoon shall be kept free of all vegetation (i.e. grasses, reeds, cattails, etc.) that hinders the operation of the lagoon.
4. The lagoon shall be dredged as necessary to maintain the proper operating depths that will provide best practicable treatment of the wastewater. All material removed from the lagoon(s) shall be properly disposed of in accordance with all applicable State and Federal rules and regulations.

SPECIAL CONDITIONS

J. LAGOON MAINTENANCE (cont'd)

5. The licensee shall maintain the lagoon freeboard at design levels or at least two (2) feet whichever is greater. The lagoon shall be operated in such a way as to balance the disposal of waste water via spray irrigation, including the necessary storage capacity for precipitation, to ensure that design freeboard levels are maintained.

K. SEPTIC TANKS

1. The eight septic treatment tanks and other holding or treatment tanks shall be regularly inspected (at least once per calendar year) and maintained to ensure that they are providing best practicable treatment.
2. Tank contents should be removed whenever the sludge and scum occupies one-third of the tank's liquid capacity or whenever levels approach maximum design capacity whichever is less. Following pumping, the tanks shall be checked for damage at key joints and the inlet and outlet baffles, and repaired promptly if damaged. The licensee shall keep a pumping log including the date of pumping, quantity of material removed, name and number of licensed contractor, pumping frequency and other relevant observations.

L. DISPOSAL OF TRANSPORTED WASTE IN WASTE WATER TREATMENT FACILITY

The permittee is prohibited from accepting transported wastes for disposal into any part or parts of the wastewater disposal system. "Transported wastes" means any liquid non-hazardous waste delivered to a wastewater treatment facility by a truck or other similar conveyance that has different chemical constituents or a greater strength than the influent described on the facility's application for a waste discharge license. Such wastes may include, but are not limited to septage, industrial wastes or other wastes to which chemicals in quantities potentially harmful to the treatment facility or receiving water have been added.

M. INSPECTIONS AND MAINTENANCE

The licensee shall periodically inspect all system components to ensure the facility is being operated and maintained in accordance with the design of the system. Maintenance logs shall be maintained for each major system component including pumps, pump stations, septic tanks, lagoons, spray apparatus, and pipes. At a minimum, the logs shall include the specific location of the maintenance, the date of maintenance, type of maintenance performed, names or person performing the maintenance, and other relevant system observations.

SPECIAL CONDITIONS

N. OPERATIONS AND MAINTENANCE (O & M) PLAN AND SITE PLAN

This facility shall have a current written comprehensive Operation & Maintenance (O&M) Plan. The plan shall provide a systematic approach by which the licensee shall at all times, properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the licensee to achieve compliance with the conditions of this permit. The O&M Plan shall be kept on-site at all times and made available to Department and EPA personnel upon request.

By December 31 of each year, or within 90 days of any process changes or minor equipment upgrades, the licensee shall evaluate and modify the O&M Plan including site plan(s) and schematic(s) for the waste water treatment facility to ensure that it is up-to-date.

Within 90 days of completion of new and or substantial upgrades of the waste water treatment facility, the licensee shall submit the updated O&M Plan to their Department inspector for review and comment.

O. PUBLIC ACCESS TO LAND APPLICATION SITES AND SIGNAGE

Public access to the land-application sites shall be controlled during the season of active site use. The licensee shall install signs measuring at least 8 ½" x 11" around the perimeter of the lagoon and spray irrigation site that inform the general public that the area is being used to dispose of sanitary waste waters. Each sign must be placed such that at least two other signs (one left, one right) may be seen from any one posted sign. The signs must be constructed of materials that are weather resistant. The licensee must walk the perimeter of the lagoon and spray site prior to the beginning of each spray season and make any necessary repairs to the signage to comply with this condition.

P. GROUND WATER MONITORING WELLS

1. All monitoring wells shall be equipped with a cap and lock to limit access and shall be maintained in a secured state at all times.
2. The Department reserves the right to require increasing the depth of and/or relocating any groundwater monitoring well if the well is dry or is determined by the Department to be not representative of groundwater conditions.

SPECIAL CONDITIONS

Q. MONITORING AND REPORTING

Monitoring results obtained during the previous month (**April through November**) shall be summarized for each month and reported on separate Discharge Monitoring Report (DMR) forms provided by the Department and postmarked on or before the thirteenth (13th) day of the month or hand-delivered to the Department's Regional Office such that the DMR's are received by the Department on or before the fifteenth (15th) day of the month following the completed reporting period. A signed copy of the DMR and all other reports required herein shall be submitted to the following address:

Bureau of Land and Water Quality
Department of Environmental Protection
17 State House Station
Augusta, Maine 04333

R. REOPENING OF LICENSE FOR MODIFICATIONS

Upon evaluation of any required test results, results of inspections and/or reporting required by the Special Conditions of this licensing action, additional site specific or any other pertinent information or test results obtained during the term of this license, the Department may, at anytime and with notice to the licensee, modify this license to require additional monitoring, inspections and/or reporting based on the new information.

S. SEVERABILITY

In the event that any provision, or part thereof, of this license is declared to be unlawful by a reviewing court, the remainder of this license shall remain in full force and effect, and shall be construed and enforced in all respects as if such unlawful provision or part thereof, had been omitted, unless otherwise ordered by the court.

Spray Application Report by Week

Attachment B

Facility Name _____;

WDL # W006097; (Month _____, Year _____) Weekly Application Rate 54,300 gallons/acre (2.0 inches)

| Field Name/# | Effective Spray Area (Acres) | Weekly Limit (Gallons/Acre) | Actual Spray Application Rates (Gallons per Acre) | | | | | Number of Exceptions to Weekly Limit | Monthly Average |
|--|------------------------------|-----------------------------|---|--------|--------|----------------------------|--------|--------------------------------------|-----------------|
| | | | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | | |
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| Note: 1 acre-inch is equivalent to 27,150 gallons of liquid 27,150 gallons per acre is equivalent to 1.0 inch | | | | | | Total Number of Exceptions | | | |

A spray-field's weekly application rate is the total gallons sprayed (Sunday through Saturday) divided by the size of the spray-field in acres or the size in acres of that portion of the spray field utilized.

Signature of Responsible Official: _____, Date _____

Depth to Groundwater (Tenths of Feet)

Attachment C

(Month _____, Year _____)

Facility Name: WDL #W006097;

| Field Name/# | Monitoring Location | 4. Depth to Groundwater (Measured From Ground Surface in Tenths of Feet) | | | | | Number of Exceptions | Monthly Average Depth |
|--------------|---------------------|---|--------|--------|--------|----------------------------|----------------------|-----------------------|
| | | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | | |
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| | | | | | | Total Number of Exceptions | | |

Note: Special Condition G of the License requires that a depth of 10 inches from the ground surface to the groundwater table must be present prior to spraying. The licensee shall report the minimum depth to groundwater in the table above.

Signature of Responsible Official: _____, Date _____

MAINE WASTE DISCHARGE LICENSE

FACT SHEET

Date: **May 4, 2010**

PERMIT COMPLIANCE TRACKING SYSTEM NUMBER: **MEU506097**

LICENSE NUMBER: **W006097-5J-D-R**

NAME AND MAILING ADDRESS OF APPLICANT:

(Summer)

**CAMP MATOAKA
One Great Place
Smithfield, ME. 04978**

(Winter)

**Jason and Leslie Silberman
15 Canavan Circle
Needham, MA. 02492**

COUNTY: **Somerset County**

NAME AND ADDRESS OF FACILITY:

**One Great Place--Bickford Road
Smithfield, Maine**

RECEIVING WATER/ CLASSIFICATION: **Groundwater /Class GW-A**

COGNIZANT OFFICIAL AND TELEPHONE NUMBER:

**Jason Silberman – Owner/Director
1-800-628-6252 (winter)
1-207-362-2500 (summer)
Jason@matoaka.com**

1. APPLICATION SUMMARY

- a. Application : Camp Matoaka has submitted a timely and complete application with the Department for the renewal of Waste Discharge License (WDL) #W006097-5J-D-R, which was issued by the Department on July 22, 2005 and is due to expire on July 22, 2010. The application is for the continuing operation of a spray irrigation waste water disposal system on a 3.69 acre site (up from 3.245 acres in the previous licensing action) for the treatment and seasonal disposal of sanitary waste water generated at a rate of 18,000 gallons per day from Camp Matoaka in Smithfield, Maine. See **Attachment A** of this Fact Sheet for a location map.

1. APPLICATION SUMMARY (cont'd)

- b. Source Description: Camp Matoaka is a recreational, seasonal, residential camp that accommodates up to 300 campers, and 125 staff. It typically operates between June and September during 10 weeks in the summer with lesser quantities of wastewater generated during a 4-week pre-camp and post-camp season. Sources generating wastewater at the facility include the cafeteria building, several residential bunk houses, gymnasium building, administrative offices, an infirmary, a maintenance building, and other ancillary structures. Wastewater generated is characterized as similar to typical residential wastewater without toxic compounds or non-conventional pollutants.

c. Waste Water Treatment (Spray-Irrigation):

The surface waste water disposal system commenced operation in 1984. Waste waters generated from the campground receive primary treatment via eight (8) on-site septic tanks (four-1,000 gallon, one-1,500 gallon, two-2,000 gallon, and a 5,500 gallon capacity). The tanks are pumped of solids annually and supernatant from the tanks is conveyed to the treatment lagoon via pump stations. The septic tanks are connected to sewer pipes outside of certain buildings (such as the cafeteria, crafts building, bunkhouses, etc.). The wastewater lagoon is located along the westerly edge of the developed portion of the campground (800 feet easterly of the Bickford Road) and covers 31,921 square feet of ground area. The lagoon has a storage volume of 652,000 gallons with a full lagoon level of 126.6 feet above sea level. The lagoon's berm embankment height extends to 128.6 feet, thus providing at least 2 feet of vertical freeboard during periods of full lagoon water levels.

The spray irrigation area is located westerly of the Bickford Road and includes two main lateral lines with nine spray distribution nozzles on each line. Each nozzle is designed to equally distribute wastewater from the center of a 100 foot diameter circular area. The nozzles themselves are equally spaced 100 feet apart along the main lateral lines. Each 100 foot diameter circular area contains 7,854 square feet of ground area or a total of 157,076 square feet of area (3.69 acres) to dispose of wastewater generated by the facility. See **Attachment B** of this license for a schematic showing the layout of the spray irrigation system. The spray area is located in an area characterized by mixed hardwoods and softwoods in a moderately well drained silt loam (predominately Buxton soil series). Historic operations of the system indicates that the in-situ soils have the capacity to treat and attenuate the hydraulic and pollutant load in the wastewater if the prescribed application rates are adhered to.

2. LICENSE SUMMARY

- a. Terms and conditions - This licensing action is carrying forward all the terms and conditions of the 4/27/05 licensing action except that this license:
1. Replaces the daily maximum concentration limits for biochemical oxygen demand (BOD) and total suspended solids (TSS) with a “report” only requirement.
 2. Eliminates the ground water quality monitoring and reporting requirements for chloride, temperature, pH, TSS and the eight metals listed as inorganics.
 3. Requires the person in responsible charge of waste water treatment facility be a certified operator pursuant to Department rule, Chapter 531.
 4. Expanding seasonal spray season from April 15th – November 30th of each year to April 1st – November 30th each year.
- b. History: Recent Department licensing actions include the following:
- | | |
|------------------|---|
| July 28, 1989 | - The Department issued WDL #W006097-66-B-R authorizing the operation of a surface waste water disposal system on the Bickford Road in Smithfield for a five-year term. |
| December 8, 2000 | - The Department issued WDL #W006097-5J-C-R that authorized the licensee to treat and discharge up to 18,000 gpd of sanitary waste water for a five-year term. |
| July 22, 2005 | - The Department issued WDL #W006097-5J-D-R that authorized the licensee to treat and discharge up to 18,000 gpd of sanitary waste water for a five-year term. |
| August 5, 2010 | The licensee submitted a timely and complete application to the Department for the renewal of its Waste Discharge License. |

3. CONDITIONS OF THE LICENSE

Maine law, 38 M.R.S.A. Section 414-A, requires that the effluent limitations prescribed for discharges, including, but not limited to, effluent toxicity, require application of best practicable treatment (BPT), be consistent with applicable state law, and ensure that the receiving waters attain the State water quality standards as described in Maine's Water Classification System.

4. RECEIVING WATER QUALITY STANDARDS

Maine law, 38 M.R.S.A § 470 indicates the groundwater at the point of discharge is classified as Class GW-A receiving waters. Maine law, 38 M.R.S.A., §465-C describes the standards for Class GW-A waters as the highest classification of groundwater and shall be of such quality that it can be used for public water supplies. These waters shall be free of radioactive matter or any matter that imparts color, turbidity, taste or odor which would impair the usage of these waters, other than occurring from natural phenomena.

5. TREATMENT

Slow-rate land-irrigation treatment is an environmentally sound and appropriate technology for best practicable treatment and disposal of sanitary wastewater. The soils and vegetation within the irrigation area will provide adequate filtration and absorption to preserve the integrity of the soil, and both the surface and groundwater quality in the area.

6. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Lagoon Effluent:

- a. Lagoon Effluent: The previous licensing action established twice per year (**July and August**) monitoring and reporting requirements for *lagoon level*, *biochemical oxygen demand (BOD)*, *total suspended solids (TSS)*, *nitrate-nitrogen* and *pH* for lagoon effluent as it exits the lagoon to be sprayed. Monitoring for BOD, TSS, nitrate nitrogen and pH serves as an indicator of the effectiveness of the lagoon treatment process and the condition of the waste water being applied. Lagoon freeboard levels were also required to be monitored and reported on DMR forms to be submitted to the Department in order to assess the lagoon mass balance and to properly manage lagoon volumes. To be consistent with other like WDLs for small surface waste water disposal systems, the monitoring and reporting requirements in the previous licensing action are being carried forward in this licensing action with the exception of pH. In addition, the concentration limitations of 100 mg/L for BOD and TSS are being modified to “report” only requirements as they are overly restrictive for waste water that is only receiving a primary level of treatment prior to spray irrigation.

A review of the effluent monitoring data for the period April 2005 – August 2008 indicates values for influent flow, BOD, TSS, nitrate nitrogen have been reported as follows:

DMRs=10

| Value | Limit | Range | Mean |
|------------------|--------------|--------------|-------------|
| BOD | 100 mg/L | 35 - 140 | 73 |
| TSS | 100 mg/L | <1 - 50 | 24 |
| Nitrate Nitrogen | Report mg/L | <0.5 - <2 | <0.8 |

6. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)

b. Spray Irrigation Application Rates (Weekly, Daily)

The previous licensing action established a weekly maximum rate 54,300 gallons per acre (2.0 inches/week) based on the characteristics of the in-situ soils.

| | | | |
|---------------------------|---------------------|-------------------|---|
| | License Limit | Equivalent Inches | Based on total spray area of 3.245 acres** |
| Application Rate (weekly) | 54,300 gallons/acre | 2.0 inches | 176,200 gallons per week or 704,800 gallons/month |

Note: 1 acre-inch is equivalent to 27,150 gallons

**Regardless of the calculated rate, the system operator shall monitor each waste application to verify adequate infiltration of the waste into the soil and an irrigation cycle should be stopped if runoff or ponding start to occur.

A review of the DMR data for the period June 2005 – November 2008 indicates values for weekly average spray rates and total application rates have been reported as follows:

DMRs = 31

| | <u>Range</u> | <u>Mean</u> |
|------------------------|--------------------------|---------------------|
| Weekly average applied | 11,370 - 180762 gal/acre | 43,400 gallons/acre |
| Monthly total applied | 41,000 – 763,000 gallons | 273,000 gallons |

c. Groundwater Monitoring Wells

Good geologic science typically requires a minimum of three monitoring wells for monitoring wastewater disposal (spray-irrigation) systems. One well is typically installed upgradient from the lagoon to monitor ambient groundwater conditions, one well installed downgradient from the lagoon to monitor lagoon leakage, and one well installed downgradient from the spray field to monitor effects on the groundwater from the spray operation. Camp Matoaka has three groundwater monitoring wells to determine the treatment efficiency of the wastewater system (one well is adjacent to the lagoon, the other two are in the spray irrigation area). In the case of Camp Matoaka, the Department has found that (1) the effluent has been consistently treated to a high degree; and (2) the on-site soils are relatively efficient at attenuating pollutant given the limited hydraulic load. The Department finds that groundwater monitoring wells have been providing samples that are representative of the ground water in the vicinity.

6. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)

A review of the DMR data for the period May 2005 – October 2009 indicates ground water quality monitoring data (expressed at a mean) has been reported as follows:

DMRs = 31

| Parameter | TSS (mg/L) | Conductance (uhmos/cm) | Nitrate-Nitrogen (mg/L) | Chloride (mg/L) |
|------------------|-----------------------|-----------------------------------|------------------------------------|----------------------------|
| Well #. | --- | --- | --- | |
| MW-1 | 96 | 193 | 2.6 | 7.6 |
| MW-2 | 250 | 60 | 2.7 | 5.0 |
| MW-3 | 430 | 124 | 5.2 | 9.0 |

Subsequent to the issuance of the previous licensing action, the Department has reconsidered its position on the extent of the parameters required for ground water quality monitoring for small surface waste water disposal systems and determined the two most significant parameters to track possible ground water contamination are specific conductance and nitrate nitrogen. Therefore, all other parameters for ground water quality monitoring in the previous licensing action are being eliminated in this licensing action with the exception of specific conductance and nitrate nitrogen.

7. DISCHARGE IMPACT ON RECEIVING WATER QUALITY

As licensed, the Department has determined the existing water uses will be maintained and protected and the discharge will not cause or contribute to the failure of the water body to meet standards for Class GW-A classification.

8. PUBLIC COMMENTS

Public notice of this application was made in the Morning Sentinel, a newspaper with circulation in the area of the proposed discharge on or about March 24, 2010. The Department receives public comments on an application until the date a final agency action is taken on that application. Those persons receiving copies of draft licenses shall have at least 30 days in which to submit comments on the draft or to request a public hearing, pursuant to Chapter 522 of the Department's rules.

9. DEPARTMENT CONTACTS

Additional information concerning this licensing action may be obtained from and written comments should be sent to:

Gregg Wood
Department of Environmental Protection
Bureau of Land and Water Quality
Division of Water Quality Management
17 State House Station
Augusta, Maine 04333-0017
Telephone (207) 287-7693
e-mail: gregg.wood@maine.gov

10. RESPONSE TO COMMENTS

During the period of May 4, 2010, through the issuance date of the license, the Department solicited comments on the proposed draft license to be issued for the discharge(s) from the permittee's facility. The Department did not receive comments from the permittee, state or federal agencies or interested parties that resulted in any substantive change(s) in the terms and conditions of the license. Therefore, the Department has not prepared a Response to Comments.

ATTACHMENT A

1" = 2000'

ROME QUADRANGLE
MAINE
7.5 MINUTE SERIES (TOPOGRAPHIC)

436 437 47' 30" 600 000 FEET 439 440

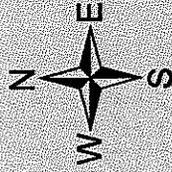


Owner: Jason Silberman
One Great Place
Bickford Road
Smithfield, Maine 04978

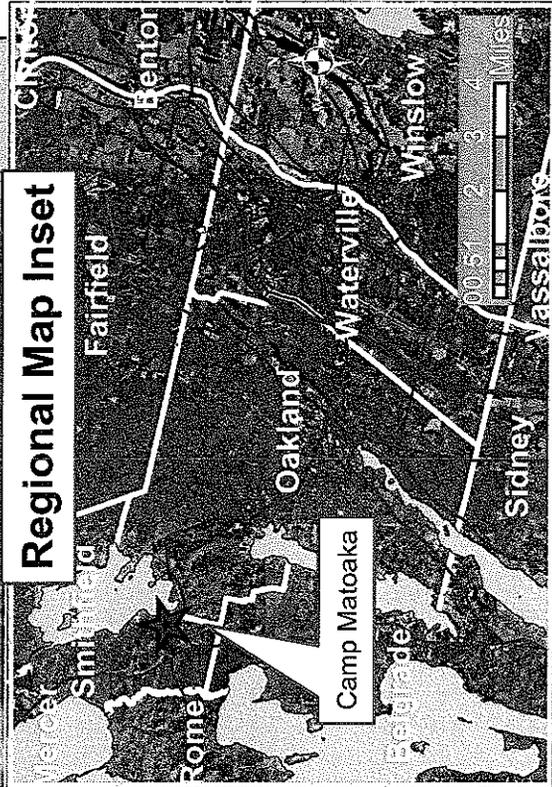
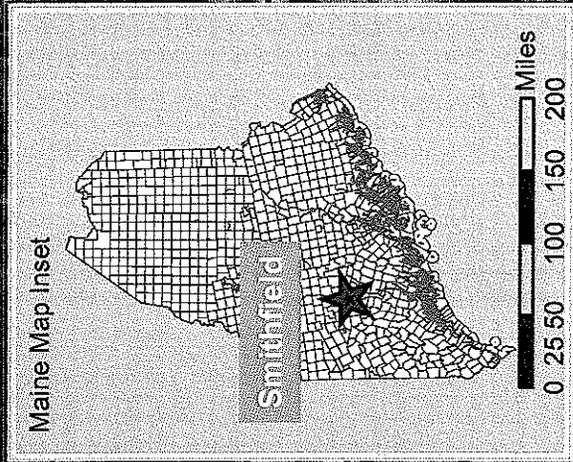
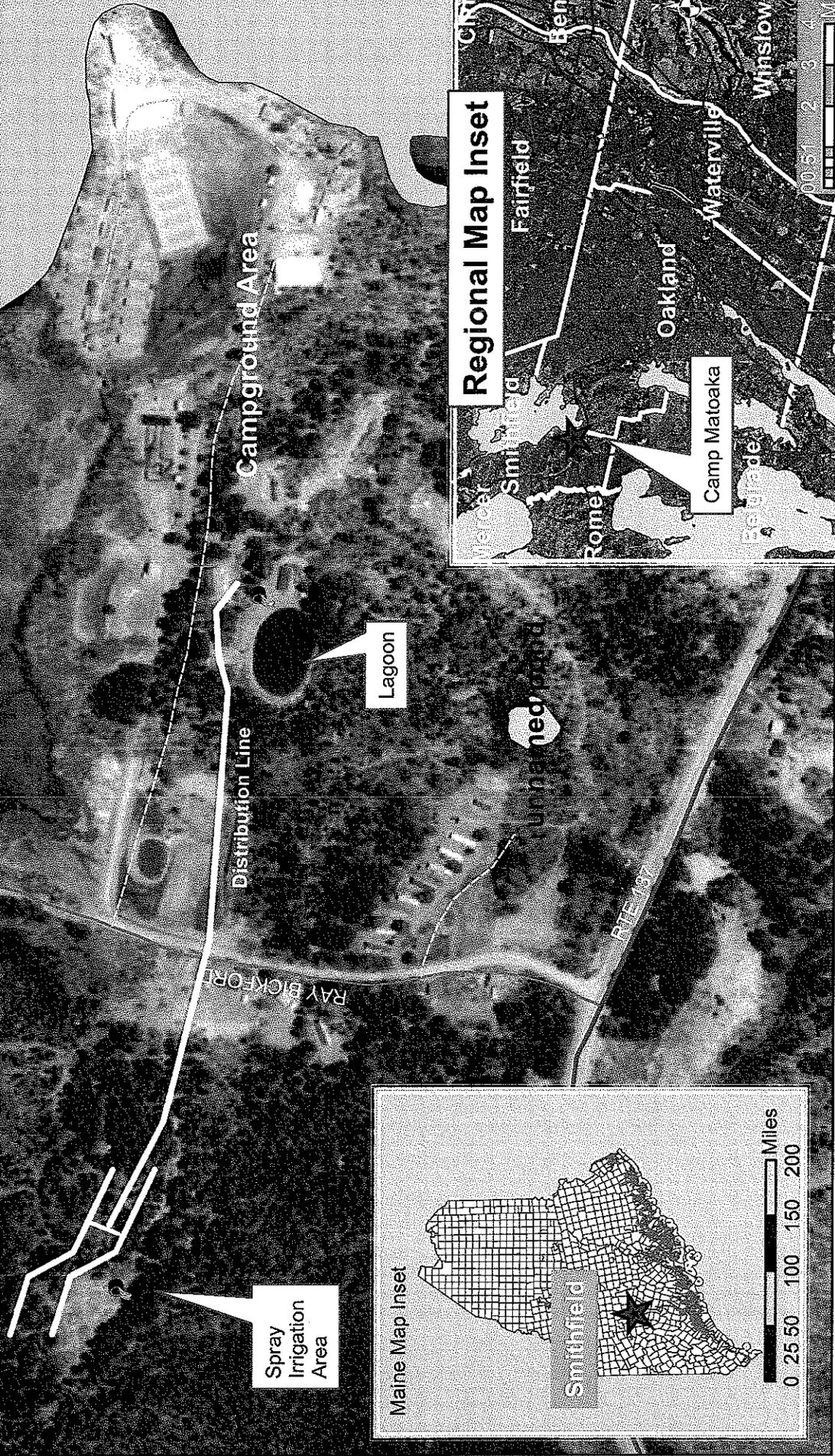
Grade Operator: Bob Johnson
Walden, Inc. 968-3302



Camp Matoaka

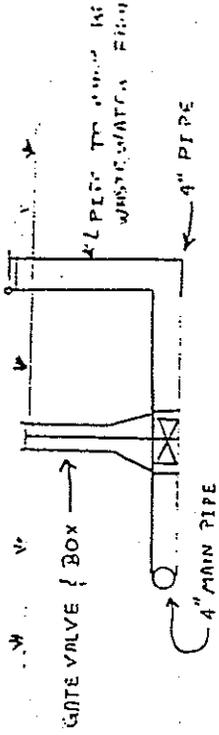


East Pond

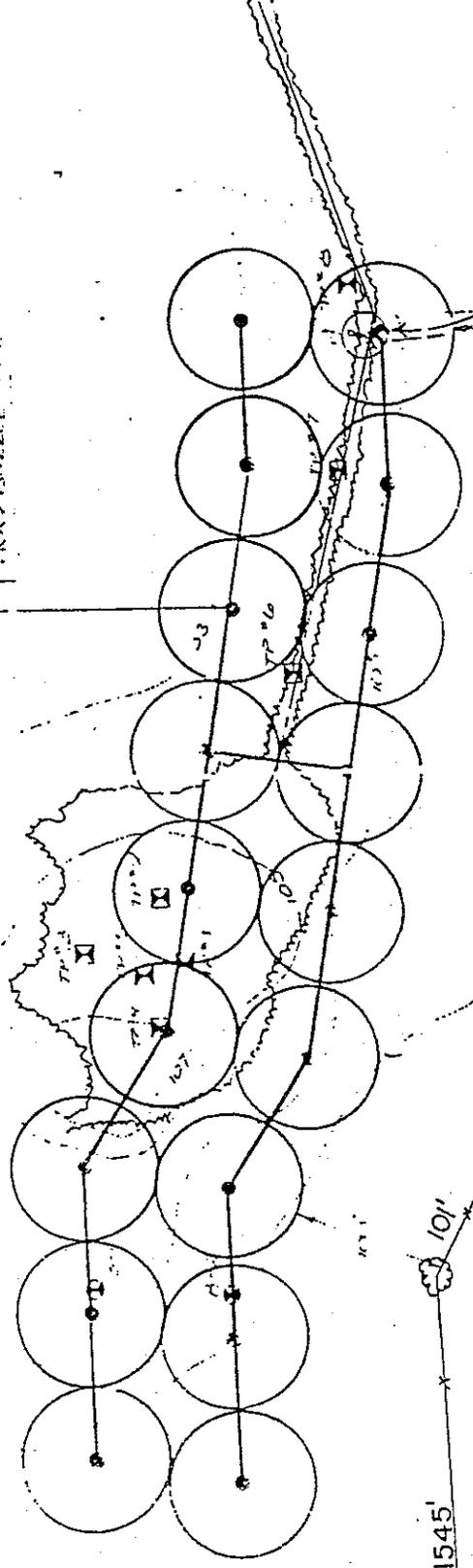


ATTACHMENT B

DRAIN POINT FOR WINTER SHUT-DOWN N.F.S.

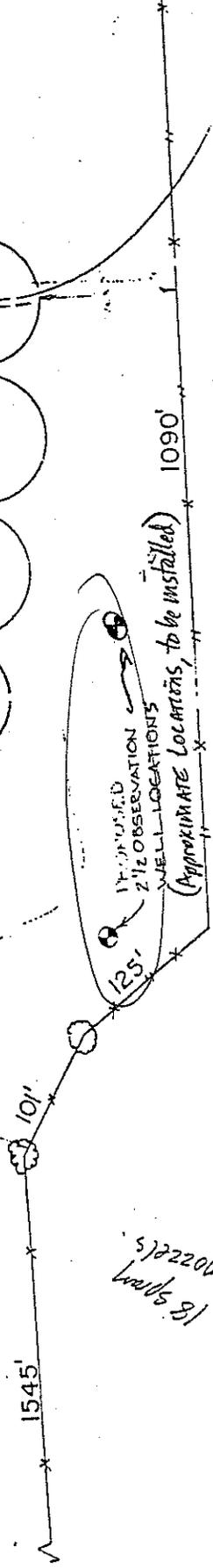


INSTALL 10' NELLECO 1 PART SYSTEM
 1/2\"/>



16 9/16\"/>

16 9/16\"/>



ATTACHMENT B CAMP MATOAKA
 SPRAY DISPOSAL AREA
 (DEP # W006097-5J-C-R)

STANDARD CONDITIONS OF POTW WASTE DISCHARGE LICENSES

REVISED 7/16/96

1. General Conditions

- A. All discharges shall be consistent with the terms and conditions of this license; any changes in production capacity or process modifications which result in changes in the quantity or the characteristics of the discharge must be authorized by an additional license or by modifications of this license; it shall be a violation of the terms and conditions of this license to discharge any pollutant not identified and authorized herein or to discharge in excess of the rates or quantities authorized herein or to violate any other conditions of this license.
- B. The licensee shall permit the Department of Environmental Protection Staff upon the presentation of proper credentials:
 - (1) To enter upon licensee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this license;
 - (2) To have access to and copy any records required to be kept under the terms and conditions of this license;
 - (3) To inspect any monitoring equipment or monitoring method required in this license; or,
 - (4) To measure and/or sample at any intake, process or cooling effluent stream, waste water treatment facility and/or outfall.
- C. This license shall be subject to such monitoring requirements as may be reasonably required by the Department of Environmental Protection including the installation, use and maintenance of monitoring equipment or methods (including, where appropriate, biological monitoring methods). The licensee shall provide the Department of Environmental Protection with periodic reports on the proper Department of Environmental Protection reporting form of monitoring results obtained pursuant to the monitoring requirements contained herein.
- D. This license does not preclude obtaining other required Federal, State or Municipal permits and does not authorize or approve the construction of any on-shore physical structures or facilities or the undertaking of any work in any navigable waters.

- E. The issuance of this license does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to public or private property or any invasion of personal rights nor any infringement of Federal, State or local laws or regulations.
- F. Nothing in this license shall be construed to relieve the licensee from civil or criminal penalties for non-compliance, whether or not such non-compliance is due to factors beyond the licensee's control, such as accident, equipment breakdown, labor disputes or natural disaster.

2. Pretreatment Requirements

- A. The licensee shall comply with all Federal Statutes, regulations, and conditions of permits applicable to its discharge of waste waters, including, but not limited to, those requiring the installation of pretreatment facilities or establishment of pretreatment programs.
- B. Municipal or quasi-municipal licenses shall maintain user contracts, permits or ordinances to regulate industrial entities which discharge process waste water to the licensee's treatment facilities in quantities greater than 10 of the facility's design capacity. Such contracts, permits or ordinances shall be submitted to the Department for approval within three months of the effective date of this license or prior to acceptance of new or increased volumes of industrial waste water. All such contracts, permits or ordinances shall be an enforceable part of this license whether or not approved by the Department.

""^

3. Waste water Treatment and Sampling Facilities

- A. The licensee shall collect all waste flows designated by the Department of Environmental Protection as requiring treatment and discharge them into an approved waste treatment facility in such a manner as to maximize removal of pollutants unless authorization to the contrary is obtained from the Department.
- B. The licensee shall at all times maintain in good working order and operate at maximum efficiency all waste water collection, treatment and/or control facilities.
- C. All necessary waste treatment facilities will be installed and operational prior to the discharge of any waste waters.
- D. Final plans and specifications must be submitted to the Department of Environmental Protection and approved prior to the construction or modification of any treatment facilities.
- E. The licensee shall install flow measuring facilities of a design approved by the Department of Environmental Protection.
- F. The licensee must provide an outfall of a design approved by the Department of Environmental Protection which is placed in the receiving waters in such a manner that maximize mixing and dispersion of the waste waters will be achieved as rapidly as possible.

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4. Non-Compliance Notification

- A. In the event the licensee bypasses collection or treatment facilities or is unable to comply with any of the conditions of this license due, among other reasons, to:
- (1) breakdown of waste treatment equipment;
 - (2) accidents caused by error or negligence;
 - (3) high strength, high volume or incompatible wastes; or
 - (4) other causes such as acts of nature,
- the licensee shall notify the Department of Environmental Protection verbally as soon as its agents have knowledge of the incident.
- B. Within five (5) days of becoming aware of such condition the licensee shall provide the Department of Environmental Protection in writing, the following information:
- (1) A description of the discharge and cause of non-compliance; and
 - (2) The period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the non-complying discharge.
- C. If the licensee knows in advance of changes in licensed facilities or activities which may result in non-compliance or of the need to bypass, it shall submit prior notice at least ten days in advance of such occurrence.
- D. In the event a bypass is due to inflow or infiltration of uncontaminated water into a sewer system, reporting requirements may be adjusted by the Department to a monthly basis.

5. Monitoring and Reporting

A. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. If effluent limitations are based wholly or partially on quantities of a product processed, the licensee shall ensure samples are representative of times when production is taking place. Where discharge monitoring is required when production is less than 50, the resulting data shall be reported as a daily measurement but not included in computation of averages, unless specifically authorized by the Department.

B. Test Methods

The sampling, preservation, handling, and analytical methods used must conform with Standard Methods for the Examination of Water and Waste Waters, American Public Health Association, 1015 18th Street, N.W., Washington, D.C. 20036, latest approved edition, or methods referenced in 40 CFR Part 136, Guidelines Establishing

Test Procedures for Analysis of Pollutants. However, different but equivalent methods are allowable if they receive the prior written approval from the Department of Environmental Protection.

- (1) All reports shall be submitted to the Department not later than the fifteenth of the month following the end of the monitoring period.
- (2) Any reports or records of monitoring activities and results shall include for all samples: (a) the date, exact place, and time of sampling; (b) the dates and times of analyses; (c) the analytical techniques/methods used, including sampling, handling, and preservation techniques; and (d) the results of all required analyses.

C. All reports shall be signed by:

- (1) In the case of corporations, a principal executive officer of at least the level of vice president, or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge described in the reporting form originates.
- (2) In the case of a partnership, a general partner or duly authorized representative.
- (3) In the case of a sole proprietorship, the proprietor or duly authorized representative.
- (4) In the case of a municipal, State, or other public facility, either a principal executive officer, ranking elected official, or duly authorized employee.

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6. Change of Discharge

The licensee shall notify the Department in writing as soon as it has knowledge of any significant changes or proposed changes in its discharge, including but not limited to:

- A. the temporary or permanent termination of the discharge;
- B. changes in the waste collection, treatment or disposal facilities;
- C. changes in the volume or character of waste water flows;
- D. permanent changes in industrial production rates;
- E. the proposed addition, directly or indirectly, of toxic pollutants not authorized by the license or reflected in the application filed with the Department;
- F. the addition to a municipal or quasi-municipal treatment system of industrial wastes which are categorically regulated by the U.S. EPA pursuant to the agency's pretreatment program.

7. Transfer of Ownership

In the event that any person possessing a license issued by the Department shall transfer the ownership of the property, facility or structure which is the source of a licensed discharge, without transfer of the license being approved by the Department, the license granted by the Department shall continue to authorize a discharge within the limits and subject to the terms and conditions stated in the license, provided that the parties to the transfer shall be jointly and severally liable for any violation thereof until such time as the Department approves transfer or issuance of a waste discharge license to the new owner. The Department may in its discretion require the new owner to apply for a new license, or may approve transfer of the existing license upon a satisfactory showing that the new owner can abide by its terms and conditions.

8. Records Retention

All records and information resulting from the monitoring activities required by this license including all records of analyses performed and calibration and maintenance of instrumentation shall be retained for a minimum of three (3) years.

9. Other Materials

Other materials ordinarily produced or used in the operation of this facility, which have been specifically identified in the application, may be discharged at the maximum frequency and maximum level identified in the application, provided:

A. They are not

(1) designated as toxic or hazardous under the provisions of Sections 307 and 311 respectively, of the Federal Water Pollution Control Act; Title 38, Section 420, Maine Revised Statutes; or other applicable State Law, or

(2) known to be hazardous or toxic by the licensee.

B. The discharge of such materials will not violate applicable water quality standards.

10. Removed Substances

Solids, sludges trash rack cleanings, filter backwash, or other pollutants removed from or resulting from the treatment or control of waste waters shall be disposed of in a manner approved by the Department of Environmental Protection.

11. Bypass of Waste Treatment Facilities

The diversion or bypass of any discharge from facilities utilized by the licensee to maintain compliance with the terms and conditions of this license is prohibited, except (1) where unavoidable to prevent loss of life or severe property damage, or (2) where excessive storm drainage or runoff would damage any facilities necessary for compliance with the terms and conditions of this license. The licensee shall notify the Department of Environmental Protection of each such diversion or bypass in accordance with the procedure specified in paragraph 6 above for reporting non-compliance. It is the duty of the licensee to take all feasible steps to prevent, minimize and mitigate bypasses. If infiltration or inflow of stormwater or ground water contribute to bypasses, the licensee shall submit to the Department for approval, a wet weather flow management plan. The plan shall describe measures

implemented to maximize the volume of flow through the treatment facilities and the efficiency of the treatment process. Submission of this plan shall not remove any responsibilities of the licensee pursuant to paragraph 6.

12. Emergency Action-Electric Power Failure

Within thirty days after the effective date of this license, the licensee shall notify the Department of Environmental Protection of facilities and plans to be used in the event the primary source of power to its waste water pumping and treatment facilities fails. During power failure, all waste waters which are normally treated shall receive a minimum of primary treatment and disinfection. Unless otherwise approved, alternate power supplies shall be provided for pumping stations and treatment facilities. Alternate power supplies shall be on-site generating units or an outside power source which is separate and independent from sources used for normal operation of the waste water facilities.

DEFINITIONS

FOR THE PURPOSE OF THIS LICENSE THE FOLLOWING SHALL APPLY

- A. Grab Sample: An individual sample collected in a period of less than 15 minutes.
- B. Composite Sample: A sample consisting of a minimum of eight grab samples collected at equal intervals during a 24-hour period (or a lesser period if specified in the section on Monitoring and Sampling) and combined proportional to flow or a sample continuously collected proportionally to flow over the same time period.
- C. Daily Maximum For Concentration: The maximum value not to be exceeded at any time.
- D. Daily Maximum For Quantity: The maximum value not to be exceeded during any day.
- E. Weekly or Monthly Average: The sum of all daily samples measurement or test results made during a week or month divided by the number of tests or measurement made during the respective time period. Exception: bacteriological tests shall be calculated as a geometric mean.
- F. Bypass: The diversion of waste water, either by act or by design, from any portion of a treatment facility or conveyance system.

WMUNCIPL