Maine Center for Disease Control and Prevention
An Office of the Department of Health and Human Services

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SIGNIFICANT BULK WATER TRANSPORT PERMIT APPLICATION

This form constitutes an application to the Maine Department of Health and Human Services (Department) for the proposed transport of water in bulk quantities as required in M.R.S. Title 22 Chapter 601 §2660-A. The Department, or their review agencies*, may contact you for further information regarding your proposal. Facilities and equipment utilized for the collection, storage, treatment, loading and transport of water may require additional approvals not included in this Department determination. Please consult the Department for clarification.

A pre-application meeting with Department geologists is strongly recommended prior to finalizing and submitting a Significant Bulk Water Transport Permit Application. Any proposed deviations from the information required below must be discussed with and approved by Department geologists in advance.

An individual Significant Bulk Water Transport Permit is required prior to transporting water for commercial purposes by pipeline, conduit, or tank vehicles or in any containers greater than 10 gallons in size beyond the boundaries of the municipality or township in which the water originates or any bordering municipality or township, if the following is true:

(1) The applicant plans to transport at least 75,000 gallons during any week or at least 50,000 gallons on any day and the source water is located at a distance of 500 feet or less from a coastal or freshwater wetland, great pond, significant vernal pool habitat, water supply well not owned or controlled by the applicant or river, stream or brook; or
(2) The applicant plans to transport at least 216,000 gallons during any week or at least 144,000 gallons on any day and the source water is located at a distance of more than 500 feet from a coastal or freshwater wetland, great pond, significant vernal pool habitat, water supply well not owned or controlled by the applicant or river, stream or brook, and
(3) The source water or proposed use is not exempted under Title 22 Chapter 601 §2660-A(2).

*Review Agencies: The Maine Public Utilities Commission, the Maine State Geologist/Maine Geological Survey and the Maine Department of Environmental Protection.

Please allow 30 days for Department and review agency reviews.

The Department may attach to any bulk water transport permit conditions required to protect public health and existing uses, including but not limited to wells used to extract water for drinking or commercial purposes and sensitive natural resources as determined by Department or review agencies.

GENERAL INFORMATION

Owner/Applicant Information

Company Name:_____

Contact Person:_____

Mailing Address:_____City:_____State:___ZIP:_____

Phone: (___)_____ Fax: (___)_____e-mail:_____

Description of Proposal

Water Source Description (check all that apply):

Borehole ☐ Spring ☐ Surface Water ☐ Public Water Supply ☐ PWS Name:_____

Location of Source(s):_____

Distance from source to nearest coastal or freshwater wetland, great pond, significant vernal pool habitat, water supply well not owned or controlled by the applicant or river, stream or brook: _____ feet

Transportation Method Proposed:_____

Anticipated Quantity to be Transported (per day):_____gallons (per week):_____gallons

Destination of Transported Water:_____

Certification of Accuracy and Completeness

Signature of Applicant or Applicant's Agent:_____

Printed Name:_____

Title/Affiliation_____

Date:_____

By signing above I certify that, to my knowledge, the information on this form and attachments is true, complete and accurate. **Maine law makes it illegal for persons applying for a Department approval to make false statements upon application with the intent to deceive department officials in the course of their official duties or to create a false impression in a written application for pecuniary or other benefit. Unsworn Falsification is a Class D misdemeanor offence punishable by up to 364 days incarceration, a fine of up to $2,000, or both.**

BASIC ATTACHMENTS FOR SIGNIFICANT BULK WATER TRANSPORT PERMIT APPLICATIONS

Please note: The scale of all drawings must be no smaller than 1 inch equals 100 feet. Larger scale 1" = 20' or 1"=50' plans are also acceptable. **ALL drawings larger than 8½" x 11" must be folded to 8½" x 11".** They must be clear, reproducible, and legible; and each sheet (including the location map) must have a consistent title block, numbering scheme, and date. PLEASE ALSO NOTE THAT REDUCTIONS OF LARGE SCALE PLANS ARE NOT GENERALLY ACCEPTABLE.

All work performed by a professional engineer, certified geologist or other licensed professional must be dated, stamped and signed by the professional.

❑ **Attachment 1,** a project description. A description of the proposed volumes of water to be extracted and transported, locations of all sources utilized for water extraction, the method of extraction and other relevant information.

❑ **Attachment 2**, a project location map. This may be a photocopy of the relevant area of the U.S.G.S. 7.5 minute quadrangle map or maps showing the boundaries of the property and the approximate location of the proposed extraction point or points. Other mapping applications (e.g., Google Earth) may also be used.

❑ **Attachment 3**, a site plan. A plan or plans of the site, at a scale of 1"= no more than 100', showing, at a minimum, the existing or proposed groundwater extraction point or points and the features listed below if located within 1000 feet of any existing or proposed extraction point:

- ❍ Existing or Proposed Facilities. All existing and proposed facilities related to groundwater extraction, storage, loading, transport or other relevant activities, and all other structures on the property owned or controlled by the applicant;
- ❍ Sources of Water. All wells, springs, or other locations where groundwater or surface water is drawn for private, public, or commercial use;
- ❍ Surface Water Resources. All surface water resources, including but not limited to coastal or freshwater wetlands, great ponds, significant vernal pool habitat, rivers, streams or brooks;
- ❍ Water supply wells not owned or controlled by applicant.. This may include residential wells, industrial wells, or public water supply wells.
- ❍ Monitoring Locations. All monitoring wells, piezometers, flumes, staff gages, precipitation monitoring sites, stream sections, wetland transects, sampling locations, or other facilities and locations used in analysis of the site;
- ❍ Possible Sources of Contamination. All known or potential sources of groundwater contamination, including but not limited to surface and subsurface wastewater disposal systems, landfills and dumps, sand – salt storage and mixing areas, junkyards, manure stacking sites, agricultural fields or other areas of pesticide, herbicide, or fertilizer application, and tanks or other storage areas for fuel or other hazardous materials.

Depending on the size of the parcel on which the project is located, the area of the parcel to be impacted by the proposed development, volume of water to be withdrawn, other uses of water within the area and the results of the pumping tests and determination of the zone of contribution to any wells used for extraction of the water, the Department may require some or all of this information at a greater distance from any existing or proposed groundwater extraction point or points.

❑ **Attachment 4**, a geologic characterization**.** A report describing a conceptual hydrogeologic model of the aquifer being considered and its recharge areas, including but not limited to:

- ❍ Geologic Description. Description of the geology and geologic history of the area.

- ❍ Cross-Sections. Generalized geologic cross-sections through the aquifer based on available information such as well logs, geologic reports, maps, and subsurface data.

- ❍ Logs. Logs of all wells, borings, seismic lines, and other subsurface data used in development of the report;

- ❍ Hydrogeologic Description. A description of aquifer flow, hydraulic boundaries, recharge conditions, interaction of the source of the withdrawal with surrounding water resources, and springs, and the estimated zone of contribution;

- ❍ Conceptual Flow Net. A conceptual groundwater flow-net map for the aquifer and its recharge areas based on available data, showing hydraulic head contours; and horizontal and vertical groundwater flow under average, ambient, non-pumping conditions.

- ❍ Water Budget. An estimate of the pre- and post-development water budget of the site, including the volumes of water required to maintain existing conditions in the protected resources in the zone of contribution, other existing uses in the watershed and contributing area, and reasonably anticipated changes in demand for water in those areas.

- ❍ Background Data. Data from monitoring wells, piezometers, flumes, staff gauges, precipitation monitoring site, stream sections, wetland transects, sampling locations, and other sites used to access pre-development conditions at the site. These data must have been collected at a frequency and density of locations acceptable to the Department and must provide information over a sufficient period of time, generally no less than one year, to allow assessment of natural seasonal variation. If unusually dry or wet seasons occur during the background monitoring period, include an assessment of how conditions observed during these seasons would differ from more typical conditions.

❑ **Attachment 5,** a demonstration of no adverse impact. Submit information demonstrating that the proposed withdrawal of water will not adversely affect existing uses of groundwater or surface water resources. Note that all instrumentation used during this assessment must meet standards of accuracy and precision determined by the Department of Environmental Protection.

- ❍ Pumping Tests. Submit a determination of the long-term safe yield of each well, including a prediction of operating levels and determination of the zone of influence and zone of capture for each well. This determination must include at least one long-duration pump test at a reasonably fixed rate and a stepped-rate test designed to determine the optimal extraction rate for the well or wells. Provide a specific assessment, developed from monitoring of water levels and flows during the pump tests, of the impacts on any existing wells and existing groundwater flow paths within the zone of influence and zone of capture for each well, and on the impacts on baseflow volumes, potential for induced recharge, maintenance of flow and surface water quality, duration of saturation in wetlands and vernal pools, and other potential impacts on surface-water or groundwater quantity, quality, and classification within the zone of influence and zone of capture for each well. Pump tests should include, at a minimum, the following:

  - Establishment of near-field and far-field monitoring wells, including nested wells near springs, wetlands, and other surface waters in order to evaluate changes in vertical flow due to the pumping, and background wells to document background water levels in an area of the aquifer (or adjacent aquifer) that will not be influenced by the test.

- Location and elevation of the monitoring wells relative to the existing well(s), to the nearest 1 ft. horizontal and 0.01 ft. vertical.

- Measurement of elevation and distance from the pumping well(s) of springs, streams, lakes, rivers, and wetlands shown on the site plan.

- Establishment of staff gages or pressure transducers in streams, ponds, open-water wetlands, and other surface waters reasonably likely to be affected by pumping.

- Establishment of one or more precipitation monitoring stations.

- Two or more weeks of daily background monitoring at all stations.

- A stepped-rate pumping test to assess the hydraulic characteristics of the well or wells to be pumped during the long-duration test.

- A long-duration pumping test to continue until stabilization has been reached or for 5 days, whichever is less. Stabilization is considered to be reached when the drawdown reading at either an observation well no more than ten feet from the pumping well or the pumping well itself has not varied by more than 1/2 inch (0.04 feet) during the preceding 24-hour period. An alternative definition of stabilization may be proposed by the applicant and must be reviewed and approved by the Department prior to the pumping test. The Department may require longer-duration tests if determined to be necessary to assess impacts to surface waters or other wells.

- Monitoring of water levels at monitoring wells, surface waters, springs, and other areas at a frequency determined by the Department during the pump tests and a recovery period no shorter than the duration of the test.

- Records of precipitation during the pump test and recovery period, at a frequency determined by the Department.

- Flows from the pumping well in gallons per minute.

- Uses and flows of nearby wells or other operations, such as construction dewatering, in the vicinity of the pumping well or monitoring wells that could affect groundwater levels during the test and recovery period.

❍ Natural Flow from Springs, Other Surface Sources, or Artesian Wells. If the proposed extraction relies in whole or part on collection of water from a spring or surface source, demonstrate that the flow remaining after removal of the water will be sufficient to maintain existing uses of downstream surface waters, particularly during periods of low-flow, and that the classification of downstream surface waters will not be affected.

❑ **Attachment 6,** a monitoring plan**.** Submit a plan for long-term monitoring of groundwater and surface water within areas likely to be impacted by the proposed use, and of background conditions outside that zone if determined to be necessary by the Department. This may include, but is not limited to, regular measurement and assessment of water level, water quality, streamflow, biomonitoring, wetland vegetation, amount and type of precipitation, and other sources of information as determined to be

applicable to particular sites, depending on the presence and sensitivity of the resources, the proposed volume and method of extraction, and other relevant factors. This plan must include a provision for regular submission of data to the Department, comparison of measured data to predicted values, and a plan to be implemented in the event that monitoring indicates the potential for adverse impact on surface-water or groundwater quantity, quality, and classification.

❑ **Attachment 7**, Certificate of Good Standing. **If new applicant is a registered corporation, provide either a** *Certificate of Good Standing* **(available from the Secretary of State) or a statement signed by a corporate officer affirming that the corporation is in good standing.**

❑ **Attachment 8, o**wnership interest. If an agent is involved with the project, what is his ownership interest? Attach a letter of explanation.