

HEALTH AND SAFETY PLAN ADDENDUM

**SITE INVESTIGATION
GLENMERE LAKE PROPERTY
ORANGE COUNTY, NEW YORK**

NYSDEC ERP SITE NO. E3-36-071

Prepared for:

**ORANGE COUNTY DEPARTMENT OF PARKS,
RECREATION AND CONSERVATION**

Prepared by:

**DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
WOODBURY, NEW YORK**

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1.0 INTRODUCTION

This addendum to the existing Health and Safety Plan (HASP) for the Glenmere Lake Property Site Investigation, dated July 2008, provides a guideline for the safe completion of the Delineation of Sediment Samples SED-04 and SED-05 and additional sediment background sampling to be completed as part of the Glenmere Lake Property Supplemental Investigation Scope of Work dated May 8, 2009. Note that this addendum only addresses health and safety protocols specific to the planned lake sediment sampling and does not replace or supersede the July 2008 HASP. All requirements and protocols specified in the July HASP will remain in effect for this work.

The procedures and protocols in this plan have been established to ensure that a mechanism is in place to address health and safety requirements for the delineation of sediment samples activities. This addendum is not designed to replace existing procedures or address all health and safety procedures that could be required during typical project activities. This addendum covers those special and/or unique health and safety procedures for operating a boat pursuant to the collection of the lake sediment samples.

Compliance with this addendum is required for all site workers collecting lake sediment samples from a boat and support personnel involved in such sample collection. All personnel performing the activities outlined in this addendum must meet the requirements of the above-referenced Health and Safety Plan (HASP) and this addendum.

The content of this addendum may undergo revision based on field conditions, modifications to the above-referenced Scope of Work or additional information made available to health and safety personnel. Any proposed modifications to this addendum must be reviewed and approved by Dvirka and Bartilucci (D&B).

Note that general and site-specific information, such as emergency contact information, personal protective equipment (PPE) requirements, chemical hazards, a route to hospital map, etc. are provided in the above-referenced HASP.

2.0 SCOPE OF WORK

A total of 15 additional sediment samples will be collected from Glenmere Lake. Sample collection methodologies and the proposed locations are provided in the Supplemental Investigation Scope of Work dated May 8, 2009. Sample locations accessible from the shore will be collected with a disposable sample scoop from 0 to 6 inches below the lake bottom. Sample locations that are located further offshore will be collected from 0 to 6 inches below the lake bottom using a dredge sampler from a small boat.

3.0 TASK-SPECIFIC SAFETY REQUIREMENTS

- Weather conditions, such as lightning, must be closely monitored to determine if it is safe to be on a water body. In the event that lightning is observed, the boat will immediately be docked and lake sediment sample collection activities will cease until weather conditions improve.
- All personnel are required to wear either Type II or Type III personal flotation devices (PFDs) at all times while aboard the boat and will be secured with a body harness and safety line, as necessary.
- All personnel aboard the boat must remain seated at all times when the boat is not anchored.
- No more than two people will be aboard the boat at any time and will be seated when the boat is in motion.
- The boat will be connected to the shore by a rope and/or anchored during all sampling activities.
- The boat must be equipped with an anchor and means of locomotion, such as a motor or floating oars.
- The anchor must be utilized to secure the boat's position throughout the duration of each sampling event.
- The boat must be equipped with a suitable signaling device, such as an air horn, signal light or flare.

4.0 TASK-SPECIFIC HAZARD ASSESSMENT

This section provides a task-specific hazard analysis of the possible physical hazards likely to be encountered while collecting lake sediment samples from a boat. Note that additional site-specific hazards, such as chemical and biological hazards, etc. are provided in the HASP.

Task	Possible Hazards	Hazard Management
Entering the Boat	Drowning Falling and striking objects	Watch footing Watch steadiness of boat Wear PFD
Sediment Sampling	Exposure to contaminants Drowning Falling and striking objects Back injury	Proper use of PPE Watch footing Watch steadiness of boat Wear PFD Lift with legs
Exiting the Boat	Drowning Falling and striking objects	Watch footing Watch steadiness of boat Wear PFD

APPENDIX A

FIELD SIGN-OUT FORM

FIELD SIGN-OUT FORM

Each field team member shall sign this section after the site-specific training has been completed and before being permitted to work on site.

I have read and understand this addendum to the Site-Specific Health and Safety Plan. I will comply with all of its provisions.

Project: **Glenmere Lake Property**

Name (Print)	Signature	Date