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**TOWN OF OYSTER BAY
BETHPAGE COMMUNITY PARK
INTERIM REMEDIAL MEASURE - CONSTRUCTION AREA**

**REMEDIAL ACTION –
H2M PROJECT MANAGEMENT PLAN**



NOVEMBER 1, 2006

Prepared For:

**Town of Oyster Bay
Department of Public Works**

H2MGROUP

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1.0 INTRODUCTION

This Project Management Plan has been prepared in response to a request from the New York State Department of Environmental Conservation for a brief and concise document that details how H2M will directly manage the remedial action (i.e., site cleanup activities) to be undertaken as part of the Interim Remedial Measure for the Bethpage Community Park in Bethpage, New York (Site).

The remedial action to be performed and addressed within this Project Management Plan is for a portion of the Bethpage Community Park that has been designated as the Construction Area. The Town of Oyster Bay entered into an Order on Consent (W1-0018-02-03) with the New York State Department of Environmental Conservation (NYSDEC) in order to expedite the investigation and remediation of historical site contamination in this approximately 7-acre portion of the 18-acre Park. A remedial action plan has been approved by the (NYSDEC) and primarily involves the excavation and off-site disposal of a significant volume of contaminated soil. Previously prepared studies [Investigation Report and Remedial Action Plan, dated November 2005 (11/2005 IR/RAP), Supplemental Investigation Report, dated December 2005 (12/2005 SIR), and Addendum to the Remedial Action Plan, dated March 2006 (3/2006 Addendum)] identified the selected remedial action plan to be the best option for long-term protection of human health and the environment, and to permit unrestricted future site use within the subject area of Bethpage Community Park.

Provided herein are details of H2M's specific approach to be utilized to manage the remedial action so as to conform with the Remedial Action Plan and other applicable NYSDEC requirements.

2.0 PROJECT BACKGROUND

2.1 Site Location

Bethpage Community Park is located in Bethpage, New York, which is within the Town of Oyster Bay in Nassau County. The Park entrance is located on the west side of the intersection of Stewart Avenue and Cherry Avenue. The Park is situated to the south of Cherry Avenue Extension (a private road) and to the west of Stewart Avenue. Commercial businesses and private residences are located to the north. A high school is located across Stewart Avenue to the east. A Northrop Grumman property bounds the subject property to the west. A Northrop Grumman access road and private residences adjoin the subject property to the south. A site location map is presented in Figure 1.

2.2 Site History and Description

Bethpage Community Park is currently owned by the Town of Oyster Bay, but was formerly owned and operated by Grumman Aircraft Engineering Corporation, a predecessor to Northrop Grumman Systems Corporation (Northrop Grumman). Ownership of the site was transferred to the Town of Oyster Bay in 1962, after which, the Town constructed the present-day Park. The park includes a pool, skating rink, picnic area, baseball field, tennis courts, basketball courts, handball court, shuffleboard courts, children's playground and parking.

In approximately 2001, site investigations performed on behalf of Northrop Grumman documented contaminant impacts to some site soils from historical activities. Contaminants included metals, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and polychlorinated biphenyls (PCBs). Volatile organic compound impacts to groundwater were also documented at the site. The prior site investigation

reports, prepared on behalf of Northrop Grumman, indicated that the site had been utilized by Northrop Grumman for wastewater disposal activities including wastewater settling ponds and fire training activity that included ignition of waste oil and jet fuel. Subsequent to the identification of PCB and metal contamination in surface soils, portions of the site with any potential for contaminant exposure were closed pending further investigation and remediation.

Based on intentions to improve the Park grounds through the construction of new facilities including an indoor ice rink, the Town of Oyster Bay entered into an Order on Consent with the NYSDEC to investigate and remediate, as necessary, a portion of the Park that would be affected by redevelopment efforts, rather than wait for a remedial investigation program to be performed by Northrop Grumman. The portion of the Park identified in the Order on Consent has been designated as the Construction Area and includes approximately 7-acres of the 18-acre Park. In general, the Construction Area is approximately central to the Park and includes the parking lot, picnic area, existing ice rink area near the northeast entrance, and handball, shuffleboard and basketball courts along the western boundary of the parking lot.

In accordance with the Order on Consent, the Town initiated a comprehensive investigation to characterize site soils within the boundaries of the Construction Area. The field investigation program was completed in late spring 2005. Subsequently, site investigation reports and a remedial action plan were submitted to the NYSDEC (11/2005 IR/RAP, 12/2005 SIR and 3/2006 Addendum). The proposed remedial action plan, as approved by the NYSDEC in May 2006, entails the removal and off-site disposal of approximately 100,000 cubic yards of contaminated soil. The remedial action plan targets areas with the highest contamination and results in the removal of all contaminants above State cleanup guidelines to a minimum depth of 10 feet below grade. Targeted removal of higher contamination areas will result in excavation to depths of up to 20 feet below grade in some areas. The comprehensive remedial action has been deemed to be protective of human-health, the environment and allows for unrestricted future site use to a depth of 10

feet. This permits future site activities to be performed with no contaminant-related health & safety concerns to the depth of 10 feet.

3.0 PROJECT ORGANIZATION

Provided below is a table listing various key personnel that are or will be involved with the implementation of the remedial action, contractor oversight and other site related activities. Attached as Figure 2 is a project organization chart which illustrates how various personnel interrelate with one another, the Town, the Contractor and the NYSDEC.

Project Implementation - Key Personnel

Key Personnel	Name	Contact Phone Number
NYSDEC Project Manager	Steven M. Scharf, P.E.	(518) 402-9620
Town of Oyster Bay Department of Public Works	James M. Byrne, P.E. Commissioner	(516) 677-5935
Town of Oyster Bay Engineering Department	Matt Russo	(516) 677-5719
Town of Oyster Bay Public Information Officer	Phyllis Barry	(516) 624-6390
Blue Water Environmental, Inc. - Remediation Contractor	Anthony Schneider	(631) 249 1872 x 286
H2M Project Director	Philip Schade, P.E.	(631) 756-8000 x1623
H2M Project Manager	Paul Lageraaen, P.E.	(631) 756-8000 x1483
H2M Site Manager	Tom Carrihill	(631) 756-8000 x1406
H2M Corporate Health & Safety Officer and Industrial Hygienist	Paul DeBiase, CIH, CSP	(631) 756-8000 x1611
H2M Site Health & Safety Officer and Environmental Manager	Lee Kaplan	(631) 756-8000 x1022
H2M Site Environmental Technician	Vito Giurlando Kevin Cain	(631) 756-8000 x1625 (631) 756-8000

4.0 CONSTRUCTION OVERSITE

Various engineering services conducted during remedial construction projects ensure the proper management, implementation and inspection of work conducted by Town-hired and/or subcontracted environmental contractors. These services can be divided into three primary tasks:

- Pre-award services: This includes pre-bid conference with prospective contractors; responses to contractor questions; review of contractors' bids and qualifications; and recommendation for award of contract. These services have been completed. Blue Water Environmental, Inc. has been awarded a contract by the Town to perform the remedial construction activities in accordance with a detailed set of plans and specifications. The project plans and specifications were prepared by H2M as engineer for the Town.
- Services during construction: These include pre-construction and periodic construction progress meetings, preparation of meeting minutes; review of contractor submittals (e.g., schedules, shop drawings, as-built drawings, etc.); periodic photo/video documentation; construction inspection; preparation of record drawings; collection and analysis of waste characterization samples; and review of contractor's applications for payment.
- Post-construction services: Includes preparation of final remediation report documenting that the remedial effort is complete.

H2M has been retained by the Town of Oyster Bay to be the engineer of record for the tasks outlined above and for implementation of the remedial action as detailed in the NYSDEC approved Remedial Action Plan for the Site. H2M is responsible for managing the daily activities during the remedial construction. This will include full time construction inspection with H2M providing a minimum of one construction inspector and one environmental manager on site during active remediation related work. H2M is responsible to ensure that all elements of a site cleanup are conducted in accordance with the RAP and the technical specifications for the project.

One of the H2M personnel assigned to inspect the work will be designated as the Site Manager, will act as the engineer, and will be the single point of contact for matters related to the on-site activity. This person, or his designee, will be on-site at all times during active remediation construction.

The H2M Site Manager, or his designee, will have the authority to immediately stop site operations as necessary. The Site Manager will coordinate closely with environmental managers and technicians on site so as to be fully informed of any conditions, such as air monitoring alarms, that would warrant a project shutdown.

In addition to the above, it will be the responsibility of H2M to ensure that the project is conducted in accordance with the various NYSDEC approved, or anticipated to be approved, plans that are applicable to the project. These include the Remedial Action Plan, the Community Health and Safety Plan, the Community Air Monitoring Plan, this Project Management Plan, and the Contractor's Site Operations and Excavation Plan. In addition, H2M will ensure that the project is conducted in accordance with the technical plans and specifications applicable to the contract awarded to Blue Water Environmental, Inc. relative to the remedial construction activity.

5.0 PROJECT MEETINGS

The following meetings have occurred or will occur during the implementation of the remedial action. These meetings will either be administered by H2M or the Town and will always be attended by H2M as the Engineer of record for the project.

- Pre-construction conference: This meeting has already occurred. The contractor was required to attend the pre-construction conference at the Town offices. The owner, a partner, or a corporate officer representing the Contractor attended the conference. The job site superintendent and office project manager for the Contractor also attended. H2M prepared an agenda for the conference and prepared meeting minutes. The overall project scope, objectives and schedule were discussed.

- Progress meetings: Progress meetings will be held approximately once every two (2) weeks during the project. The Town may elect to hold meetings more frequently. At least seven (7) calendar days advance notice will be given by H2M or the date for the upcoming meeting will be set during the progress meeting. The NYSDEC will be notified of all progress meeting dates and will be invited to attend. The owner, a partner, or a corporate officer representing the contractor will attend each announced progress meeting. The job site superintendent and office project manager for the contractor will also attend. Subcontractors will attend when requested by the Town or H2M. Meetings will be conducted by H2M at a location selected by the Town, normally at or adjacent to the project site. The minimum agenda will cover: review of previous meeting minutes; identification of present problems and potential resolutions; planning of work progress during next work period; review of the status of off-site fabrication and delivery schedule; review of shop drawings and submittal schedules; review of change order status; status review of construction progress schedule; coordination of access requirements; and other business related to the work. Meeting minutes will be prepared by H2M and will be submitted to NYSDEC for reference.
- Other Meetings: Special meetings may be required or called for by federal, state or local authorities, utility companies, the Town, H2M or any other firm, person or organization related to the project. These meetings will be attended by the required parties.

6.0 PROJECT REPORTING

As indicated above, various project meetings will be attended by or initiated by H2M and all such meetings will be documented by way of meeting minutes prepared by H2M. The progress meeting minutes will be submitted to NYSDEC for reference. In addition, any daily reports, manifests, weigh tickets or other site activity related documents that are generated during the work activity will be compiled by H2M for inclusion in the final report, as deemed appropriate by H2M and the NYSDEC. Waste disposal manifests will be submitted routinely to NYSDEC



Division of Solid and Hazardous Material, in accordance with applicable federal and state hazardous waste regulations.

7.0 COMMUNITY NOTIFICATION

A community notification program will be maintained for the duration of the remediation project at Bethpage Community Park. Public notifications will be provided to the local residents in the vicinity of the Park and community affected by the Park closure. Notifications will provide contact information for project inquiries and project status updates.

FIGURES

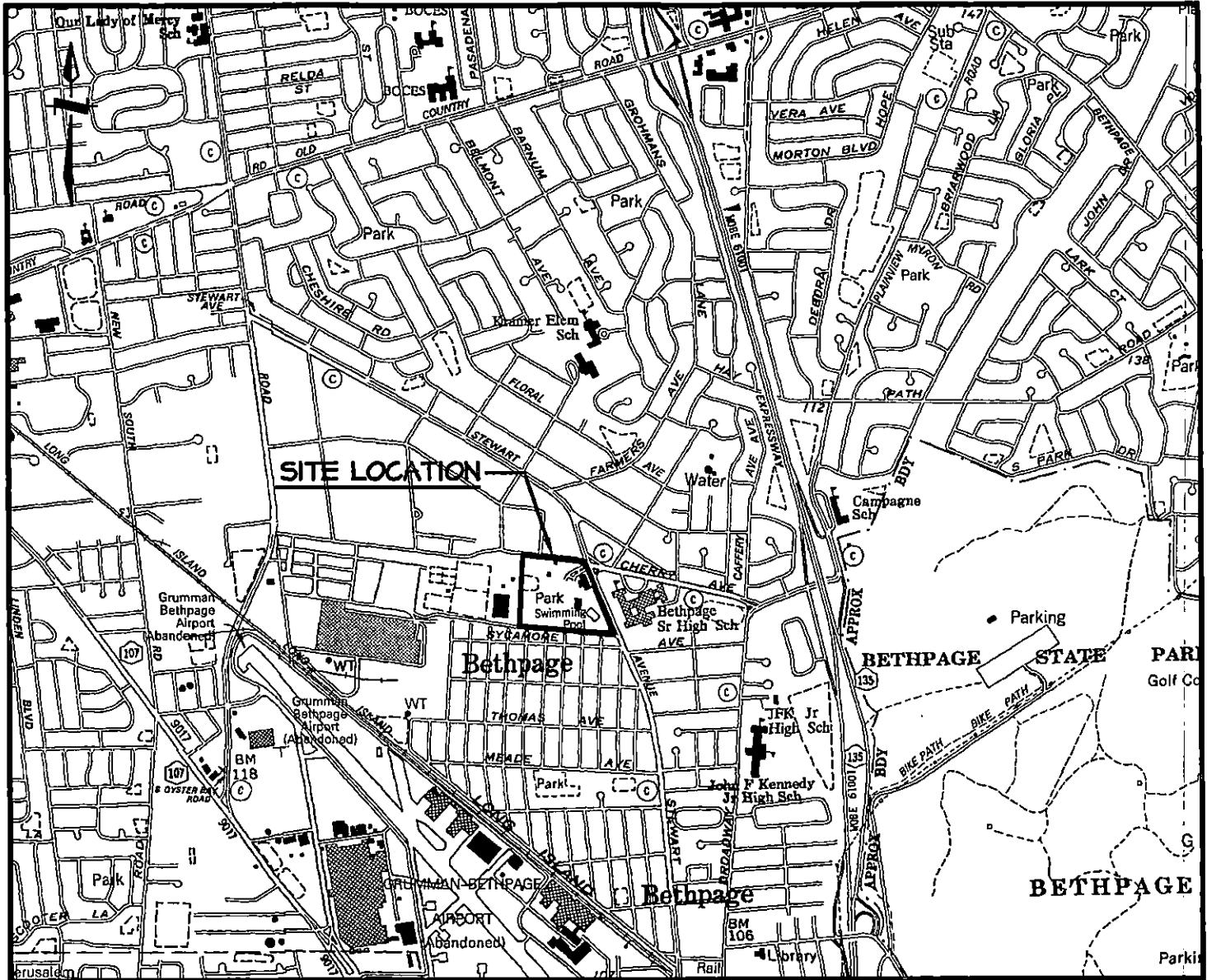


FIGURE I. SITE LOCATION

SCALE: 1" = 2000'

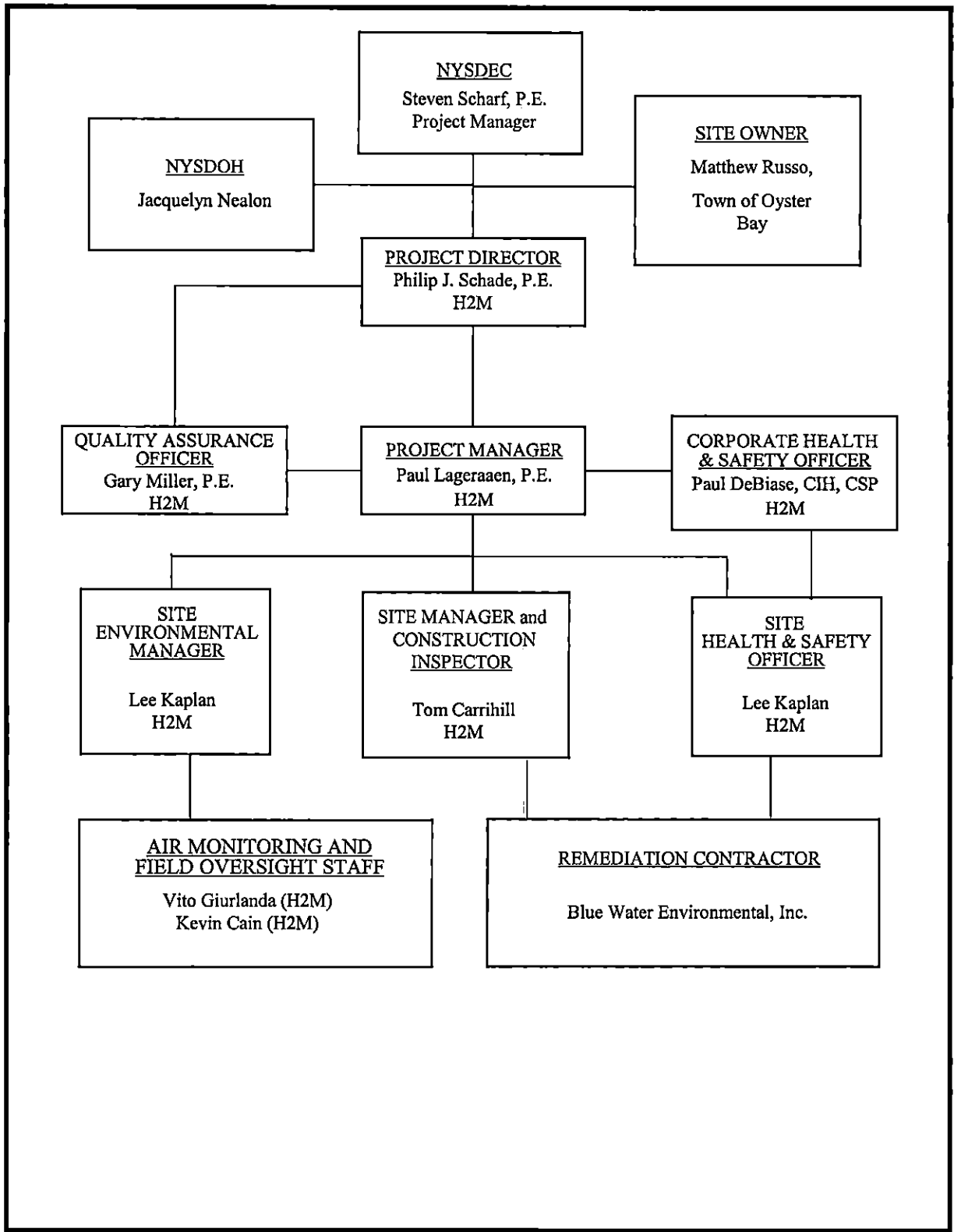


FIGURE 2. Project Organization Chart