McPHAIL ASSOCIATES, INC

Geotechnical Engineers

NOTICE OF INTENT FOR DISCHARGE UNDER MASSACHUSETTS DEWATERING GENERAL PERMIT MAG070000

1 WEBSTER AVENUE

CHELSEA MASSACHUSETTS

to

U.S. Environmental Protection Agency,
Massachusetts Department of
Environmental Protection

May 27, 2010

Project No. 4526

McPHAIL ASSOCIATES, INC

Geotechnical Engineers

May 27, 2010

U.S Environmental Protection Agency
Municipal Assistance Unit (CMU)
1 Congress Street, Suite 1100
Boston, MA 02114-2023

Attention: Dewatering GP Processing

Massachusetts Department of Environmental Protection
Division of Watershed Management
627 Main Street
Worcester, MA 01608

Attention: Mr. Robert D. Kubit

Reference: 1 Webster Avenue; Chelsea, Massachusetts
Notice of Intent for Construction Dewatering Discharge Under Massachusetts Dewatering General Permit (DGP) MAG070000

Ladies and Gentlemen:

The purpose of this letter report is to provide a summary of the site environmental conditions and groundwater quality information in support of an application for permission from the U.S. Environmental Protection Agency (EPA) and the Massachusetts Department of Environmental Protection (DEP) to temporarily discharge groundwater into the Chelsea River/Creek via a storm drain system during construction at the above referenced site. Refer to **Figure 1** entitled Project Location Plan for the general site locus.

These services were performed and this permit application was prepared in accordance with authorization of Northeast Interiors, Inc.. These services are subject to the limitations contained in **Appendix A**.

The required NOI Form and the Massachusetts DEP Transmittal Form for Permit Application and Payment are included in **Appendix B**.

Applicant/Owner

The applicant for the Notice of Intent-Dewatering General Permit is:

Webster Block LLC
115 Broad Street
Boston, MA 02110

Attention: Mr. David Greaney

Tel: 617-204-9506
Fax: 617-204-9508

2269 Massachusetts Avenue
Cambridge, Massachusetts 02140
617 / 868-1420
617 / 868-1423 (Fax)

Existing Site Conditions

Fronting onto Webster Avenue to the southwest, the irregularly-shaped site is bounded by Eastern Avenue to the east and southeast, private property and an active construction site to the northwest and commercial property to the north. Currently, a 2-story, metal-sided warehouse is located within the northern portion of the site. The remainder of the site generally consists of paved and gravel parking areas and driveways, with a few small overgrown landscaped areas across the site. Additionally, the site contains several fences within and along the perimeter of the site. It is understood that a 3-story, wood-framed warehouse was formerly located within the southeastern portion of the site adjacent to both Webster Avenue and Eastern Avenue. Existing site conditions are shown on the attached **Figure 2**, Site and Discharge Location Plan.

The existing site conditions shown on **Figures 2** are based on a 20-scale plan entitled "Existing Conditions Survey", dated February 14, 2007 and prepared by Feldman Professional Land Surveyors and a 30-scale plan entitled "Site Utility Plan" dated April 29, 2009 and prepared by Nitsch Engineering. Elevations referenced herein refer to the National Geodetic Vertical Datum (NGVD)

The area surrounding the subject site is generally occupied by commercial and residential property. A school is located to the southeast, on the opposite side of Eastern Avenue from the subject site. The site and surrounding area are serviced by public utilities including water and electricity. Wastewater is discharged into the Massachusetts Water Resource Authority (MWRA) sanitary sewer system. Catch basins on Webster Avenue and Eastern Avenue are utilized to control surface water on the subject site which discharge into the storm drain system.

Proposed Scope of Site Development

It is understood that the proposed construction will consist of demolition of the existing 2-story, metal-sided warehouse followed by construction of a 5-story, wood-framed, mixed-use building. The proposed building will be located within the southeastern portion of the site, adjacent to both Webster Avenue and Eastern Avenue. The proposed building is planned to have a footprint of about 28,500 square feet and will consist of 4-stories of residential units above an at-grade parking level. The proposed construction is also understood to include at-grade exterior parking areas, driveways, and two (2) underground storm water detention systems.

Construction Dewatering

It is anticipated that dewatering will be required for construction of the proposed building foundation and storm water detention systems which occupy an area of less than 1 acre. In addition, rainwater is anticipated to accumulate within localized trenches after periods of heavy precipitation. It is anticipated that dewatering by means of strategically located sumps and trenches should suffice during foundation and storm water detention system construction.

It is estimated that the typical continuous groundwater discharge required during the foundation construction will be on the order of 35 to 50 gallons per minute (GPM). This estimate of discharge does not include surface runoff which will be removed from the excavation during the limited duration of a rain storm and shortly thereafter.

Construction dewatering will require the discharge of collected groundwater into the storm water drain system under the requested Dewatering General Permit. A review of proposed storm drain plans provided by the City of Chelsea Public Works Department indicate that dedicated storm drains are located beneath Webster Avenue and Eastern Avenue which are located to the southwest and east of the subject site, respectively. Specifically, a 12-inch dedicated storm drain pipe located beneath Webster Avenue flows southeast and connects to a 15-inch drain beneath Eastern Avenue. The 15-inch storm drain, below Eastern Avenue, flows in a southerly direction and increases in size to 18-inches before connecting to a 42-inch box culvert beneath the intersection of Eastern Avenue and Willoughby Street. The 42-inch culvert flows southeast and eventually discharges into the Chelsea Creek, a Class SB water body, at outfall location CH008. The location of the relevant catch basins with relation to the subject site are indicated on **Figure 2**. The flow path of the discharge is shown in proposed plans provided by the City Chelsea which are included in **Appendix C**.

It should be noted that the storm water drain lines indicated on the proposed plans are currently installed and that as-built plans of the below grade drain lines have not yet been provided to the City of Chelsea Public Works Department. However, the City of Chelsea Public Works Department indicates that the storm water drains beneath Webster Avenue and Eastern Avenue discharge into the Chelsea Creek through outfall location CH008.

Summary of Groundwater Chemical Testing

On May 14, 2010, McPhail Associates, Inc. obtained a sample of groundwater from observation well B-203 which was submitted to a certified laboratory and chemically analyzed for the presence of compounds required under the EPA's Dewatering General Permit (DGP) application, including pH, total suspended solids (TSS), chloride and total recoverable metals which includes antimony, arsenic, cadmium, chromium, hexavalent chromium, copper, iron, mercury, nickel, silver and zinc. In addition, based upon the site's close proximity to a former gasoline station, the groundwater sample was also tested for the presence of volatile petroleum hydrocarbons (VPH) and target volatile organic compounds (VOC). The location of the observation well is shown on **Figure 2**.

Chemical test results are summarized in **Table 1**, and laboratory data is included in **Appendix D**. The results of chemical testing indicate the following:

1. **pH:** The tested sample exhibited a pH level of 6.9 Standard Units (S.U.) which is within the recommended range of 6.5 to 8.5 S.U. for discharge into a saltwater body.

2. **TSS:** Total suspended solids (TSS) were detected in the tested sample at a concentration 19 milligrams per liter (mg/l). The limit established by the US EPA for discharge into surface water is 30 mg/l. However, it is likely that construction activities associated with the proposed site development will cause concentrations of TSS in the influent to fluctuate which will require mitigation. As a result, groundwater will be pre-treated by passing the water through one (1) 5,000 gallon sediment settling tank prior to discharge in order to reduce the concentration of TSS in the effluent.

3. **VPH and target VOC analytes:** The groundwater sample indicated no detected level of VPH fractions or the target VOCs, including BTEX.

4. **Chloride:** The sample of groundwater exhibited the presence of chloride at a conctration of 61 mg/l.

5. **Total Metals:** The laboratory reported no detectable levels of antimony, cadmium, chromium VI, mercury, silver and zinc. Levels of arsenic, chromium, copper, nickel and silver were reported at levels of 6.5 ug/l micrograms per liter (ug/l), 0.5 ug/l, 0.7 ug/l, and 0.7 ug/l, respectively. All of these results are below the RGP permit limits for discharge to a salt water body.

Analysis of groundwater detected a concentration of iron at 20,000 ug/l which exceeds the RGP limit of 1,000 ug/l for discharge into a salt water body. Given the elevated level of total suspended solids, the groundwater sample was passed through an 8.5 micron filter and re-analyzed for the presence of dissolved iron. The subsequent analytical results indicated that the concentration of iron was significantly reduced to 2,500 ug/l which remains in excess of the RGP limit. Given the effectiveness of the filtration and based upon the presence of a clay layer which underlise the subject site, iron is considered attributable to fine clay particles suspended in the sample. As a result, a request was made to the MADEP and EPA to apply a dilution factor for discharge into the Chelsea River/Creek a saline water body. Subsequently, Mr. Robert Kubit of DEP Division of Watershed Management approved use of a calculated dilution factor.

A Dilution Factor (DF) was calculated for the detected level of iron pursuant to the procedure described in **Appendix E**. The purpose of the DF calculation is to establish Total Recoverable Limits for iron, taking into consideration the anticipated dilution of the detected analyte upon discharge into the Chelsea River/Creek. The result of the DF calculation indicated a DF greater than 100 which corresponds to a dilution concentration of 5,000 ug/l. Based on calculations of the applicable dilution factor, iron does not exceed the applicable permit limit of 5,000 ug/l for total recoverable metals. As noted above, TSS reduction measures to the groundwater will be implemented prior to discharge to reduce the concentration TSS in the effluent.

Groundwater Treatment

Given the proposed scope of development, which includes excavation for footings, it is our opinion that a sedimentation tank will be required to settle particulate matter out of the effluent to meet allowable total suspended solids (TSS) discharge limits established by the US EPA and Massachusetts DEP prior to discharge. A sedimentation tank, 5,000-gallons in capacity, will be incorporated into the discharge system in order to meet allowable discharge limits for TSS established by the DGP. A schematic of the treatment system is shown on **Figure 3**.

To document the effectiveness of the above treatment system, samples of the discharge water will be obtained and tested for the presence of TSS prior to the start of discharge into the storm drain system. Should the pre-start up testing indicate that the levels of TSS in the effluent from the settling tank exceed the limits established under the DGP, additional filtration and treatment of the effluent will be implemented prior to discharge.

Should the results of testing for TSS continue to indicate an exceedance of the DGP limit parameters appropriate treatment will be implemented. In addition, should other contaminants be detected within the discharge water during the construction dewatering phase of the project at levels that exceed the effluent limitations, mitigative measures will be implemented to meet the allowable discharge limits.

A Review of Surrounding Historical Places

A review of the most recent National Register of Historical Places for Suffolk County in Chelsea, Massachusetts did not identify records or addresses of Historic Places that exist in the vicinity of the subject site and/or outfall location.

Areas of Critical Concern, Endangered and Threatened Species

Based on a review of the DEP Priority Resources Map, the site is not located within a Zone II of a public water supply, an Interim Wellhead Protection Area, or a Zone A of a Class A surface water supply reservoir. The site is not located within a Non-Potential Drinking Water Source Area of medium yield. There are no surface water bodies located within the site boundaries. The nearest surface water body is the Chelsea Creek, located approximately 1,000 feet to the southeast of the subject site. The site is not located within an Area of Critical Environmental Concern (ACEC) nor are ACECs located within 1-mile of the subject site. In addition, the point of discharge in the Chelsea River/Creek is not an ACEC. A copy of the DEP priority Resources Map is included in **Appendix F**.

A review of the most recent federal listing of threatened and endangered species published by the U.S. Fish and Wildlife Service did not identify the presence of threatened and/or endangered species at or in the vicinity of the discharge location and/or discharge outfall. In addition, a review of the Massachusetts Division of Fisheries and Wildlife on-line database did not report the presence of threatened or endangered species at the point of discharge and/or the discharge outfall. A list of threatened and endangered species from the U.S. Fish and Wildlife Services and Massachusetts Division of Fisheries on-line databases is included in **Appendix F**.

Site Regulatory Status and Review of Surrounding DEP Release Sites

A review of the current DEP waste site on-line database indicates that the property located at 1 Webster Avenue is not a DEP-listed MCP site.

The following DEP release sites, based on their proximity to the subject site, were evaluated for the potential to impact the subject site.

412 Eastern Avenue, Release Tracking Number (RTN) 3-11296

This release site is located adjacent to the northern corner of the subject site. Reportedly, groundwater flow direction at this site is to the southeast towards the Chelsea River/Creek cross-gradient with respect to the subject site.

A Phase I Initial Site Investigation and Tier Classification prepared by Web Engineering Associates, Inc. (Web) were submitted to the DEP on March 4, 2005 for this release site. Based on the report, during 1994 Non-Aqueous Phase Liquid (NAPL) was observed during the removal of three (3) Underground Storage Tanks (USTs) containing gasoline and one UST containing waste oil. According to Web, the release had not migrated to adjacent sites.

An "Amended Phase IV Status Report & Remedial Monitoring Report No. 2" dated September 30, 2009 and prepared by Web, indicates that response actions conducted at the site have included in-situ

bioremediation. Further, the report indicates that a Method 3 Risk Assessment is being evaluated to achieve a Response Action Outcome for the release site.

Based upon the apparent cross-gradient direction of this site with respect to the subject site in conjunction with the analysis of groundwater which did not detect the presence gasoline related constituents it does not appear likely that this site poses a threat of impact to the subject site. In addition, response actions are currently being conducted by Web for the release at 412 Eastern Avenue site.

181 Spencer Street, RTN 3-23166

This release site is located approximately 270 feet to the southwest and downgradient of the subject site. Reportedly, petroleum contamination was encountered at this site during the removal of a 10,000 gallon fuel oil UST. DEP approved Immediate Response Actions that were conducted at the site, which included the removal of over 500 tons of petroleum contaminated soil and 150 gallons of groundwater. A Class A-2 Response Action Outcome (RAO) was filed at the DEP on January 12, 2004 indicating that a permanent solution had been achieved for the release and that "No Significant Risk" exists at the site. Given that this site is located downgradient from the subject site and a Permanent Solution has been achieved for the release, this site is not considered to pose a threat of impact to the subject site.

EMTEX, 181 Spencer Street, RTN 3-3671

This release site is located approximately 270 feet to the southwest of the subject site. Based on a review of reports pertaining to this release, the direction of groundwater flow at the site is to the southeast. According to the DEP on-line waste site database, a release of petroleum to groundwater was reported the DEP on July 15, 1991.

According to Goldman Environmental, low levels of petroleum constituents were detected in soil and groundwater which were attributed to incidental historical spills at this site. Based on the concentrations of petroleum constituents detected in soil and groundwater, Goldman completed a Class B-1 RAO for the release in May 2007. However, the DEP on-line database does not indicate the submittal of an RAO for this release site. Given that this release site is downgradient from subject site, it is not considered to pose a threat of impact to the subject site.

Vacant Lot, 315 Crescent Street, RTN 3-10222

This site is located about 530 feet to the southeast of the subject site at an apparent downgradient direction with respect to the subject site. According to the DEP on-line waste site database, a release of diesel fuel was reported to the DEP on November 24, 1993 from a UST located at the site. In addition, the DEP database indicates that a Class A-3 RAO and an Activity and Use Limitation (AUL) were filed for this release on November 25, 1994. Given that a Permanent Solution was achieved for this site and that the site is located downgradient from the subject site, this release is not considered to pose a threat of impact to the subject site.

McPHAIL ASSOCIATES, INC
Geotechnical Engineers

Summary and Conclusions

The purpose of this report is to assess site environmental conditions and groundwater data to support an application for a Massachusetts Dewatering General Permit for off-site discharge of groundwater which will be encountered during construction at the 1 Webster Avenue property in Chelsea. It is understood that groundwater testing results reported in this application have been provided to the site Owner.

Based on the results of groundwater chemical analyses and an applied dilution factor discussed above, it is our opinion that groundwater quality meets the DEP and the EPA requirements for discharge into a Class SB Surface Water Body without any special treatment. In order to ensure that the levels of TSS in the effluent meet the terms of the discharge permit, a sedimentation settling tank system will be utilized to settle particulate matter out of the water prior to discharge. A sample of the effluent will be obtained prior to discharge to document that the sediment removal system has addressed levels of TSS. However, should the effluent monitoring results indicate a level of TSS in excess of the limits established in the Massachusetts Dewatering General Permit, additional filtration, such as a bag filter, will be installed.

We trust that the above satisfies your present requirements. Should you have any questions or comments concerning the above, please do not hesitate to contact us.

Very truly yours,

McPHAIL ASSOCIATES, INC.

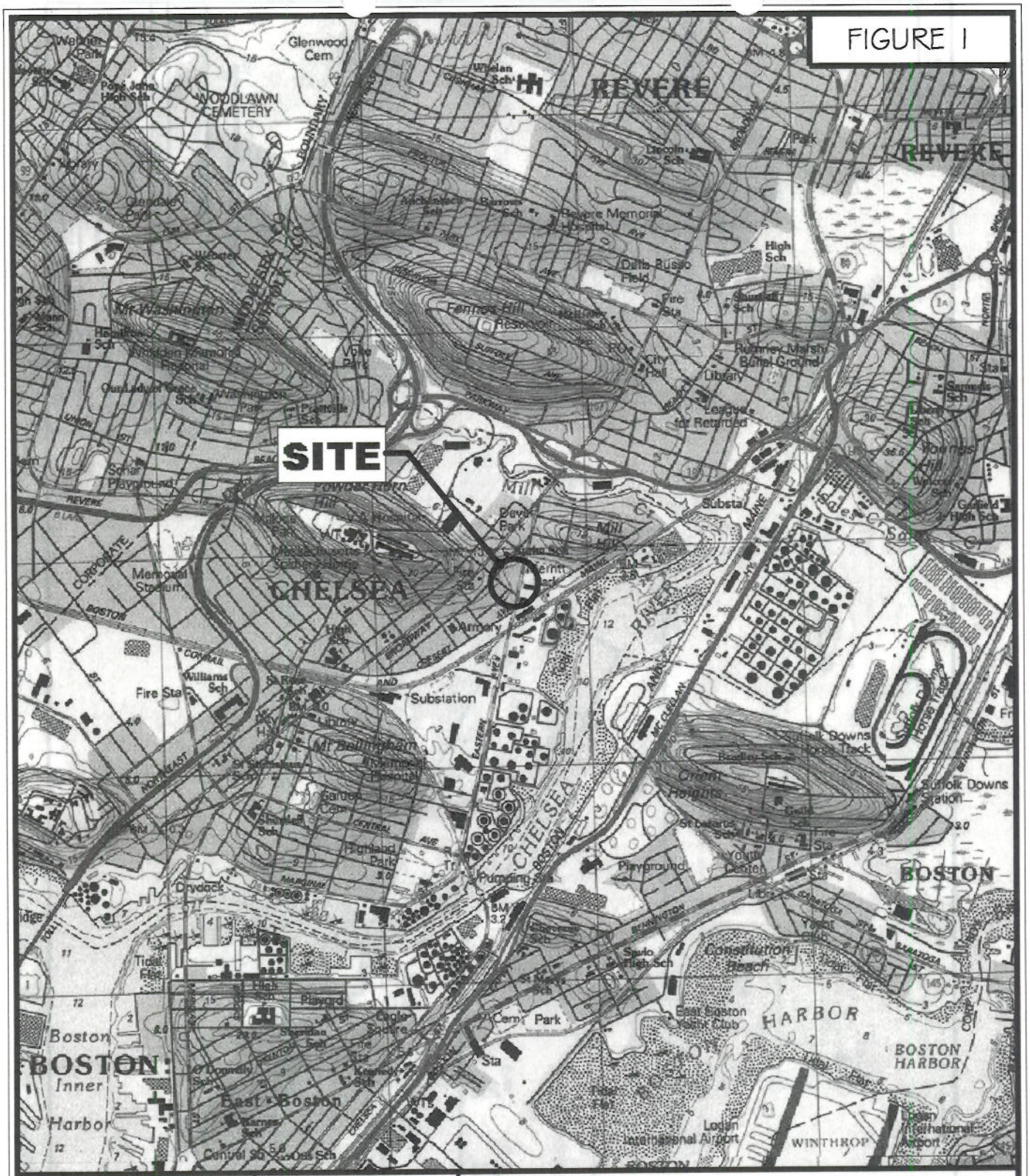
William J. Burns

Peter J. DeChaves L.S.P.

Enclosures

F:\WP5\REPORTS\4526-DGP Application.wpd
WJB/pjd

FIGURE 1



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N

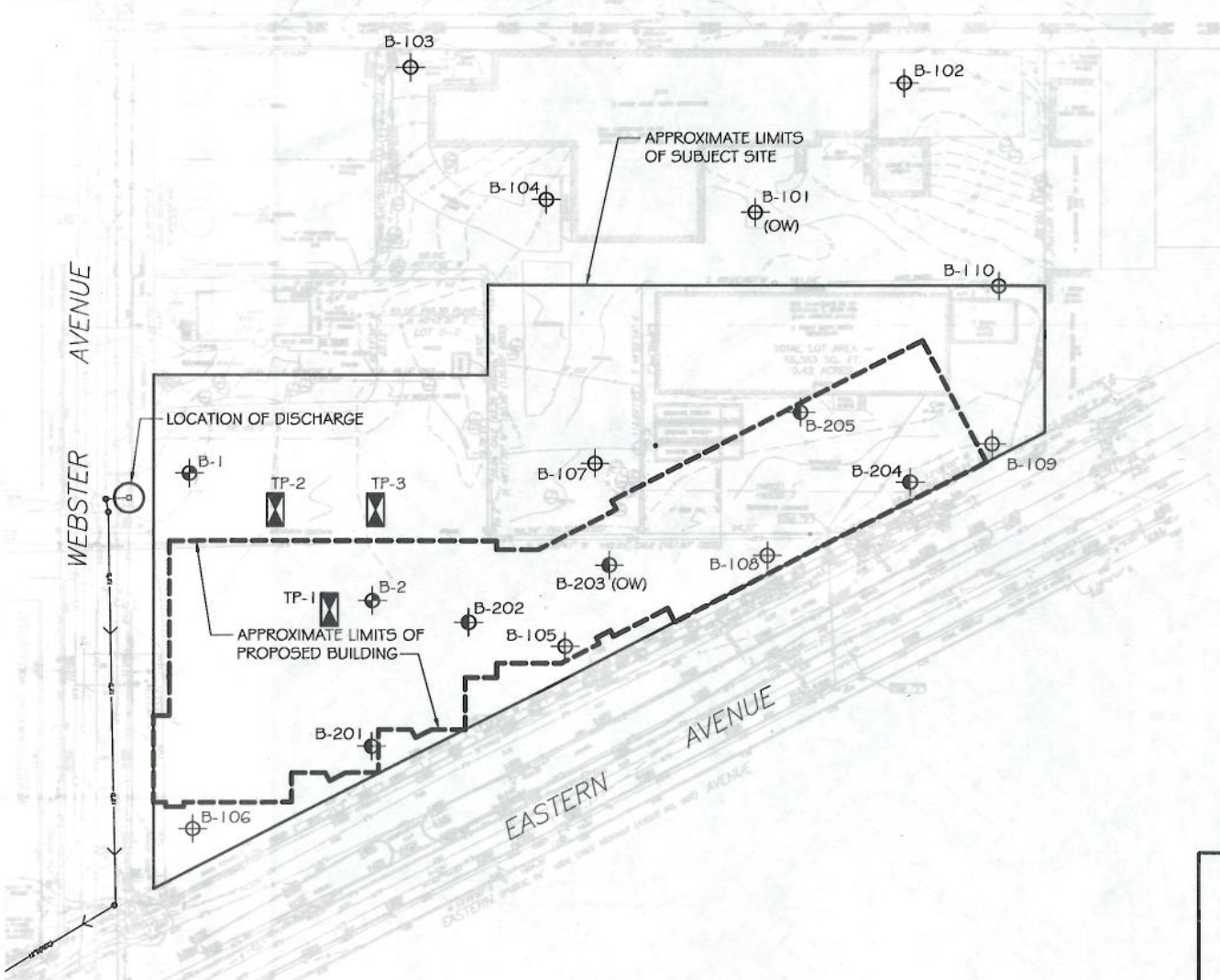
SCALE 1:25,000

PROJECT LOCATION PLAN

WEBSTER BLOCK

CHELSEA MASSACHUSETTS

FIGURE 2



NORTH

LEGEND

- LOCATION OF BORING PERFORMED BY CARR-DEE CORP. ON APRIL 24, 2006 FOR McPHAIL ASSOCIATES, INC.
- LOCATION OF BORING PERFORMED BY CARR-DEE CORP. FROM AUGUST 29 TO SEPTEMBER 6, 2007 FOR McPHAIL ASSOCIATES, INC.
- LOCATION OF BORING PERFORMED BY CARR-DEE CORP. FROM MAY 11 TO 14, 2010 FOR McPHAIL ASSOCIATES, INC.
- LOCATION OF TEST PITS PERFORMED BY PODGURSKI CO. ON MAY 12, 2010 FOR McPHAIL ASSOCIATES, INC.

(OW) — OBERVATION WELL INSTALLED IN COMPLETED BOREHOLE

REFERENCE: THIS PLAN WAS PREPARED FROM A 20-SCALE DRAWING ENTITLED "EXISTING CONDITIONS SURVEY" DATED FEBRUARY 14, 2007 BY FELDMAN PROFESSIONAL LAND SURVEYORS AND A 30-SCALE DRAWING ENTITLED " GRADING PLAN" DATED DECEMBER 4, 2009 BY NITSCH ENGINEERING.

GRAPHIC SCALE

50 0 50 100

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ONE WEBSTER AVENUE
CHELSEA MASSACHUSETTS

SUBSURFACE EXPLORATION PLAN

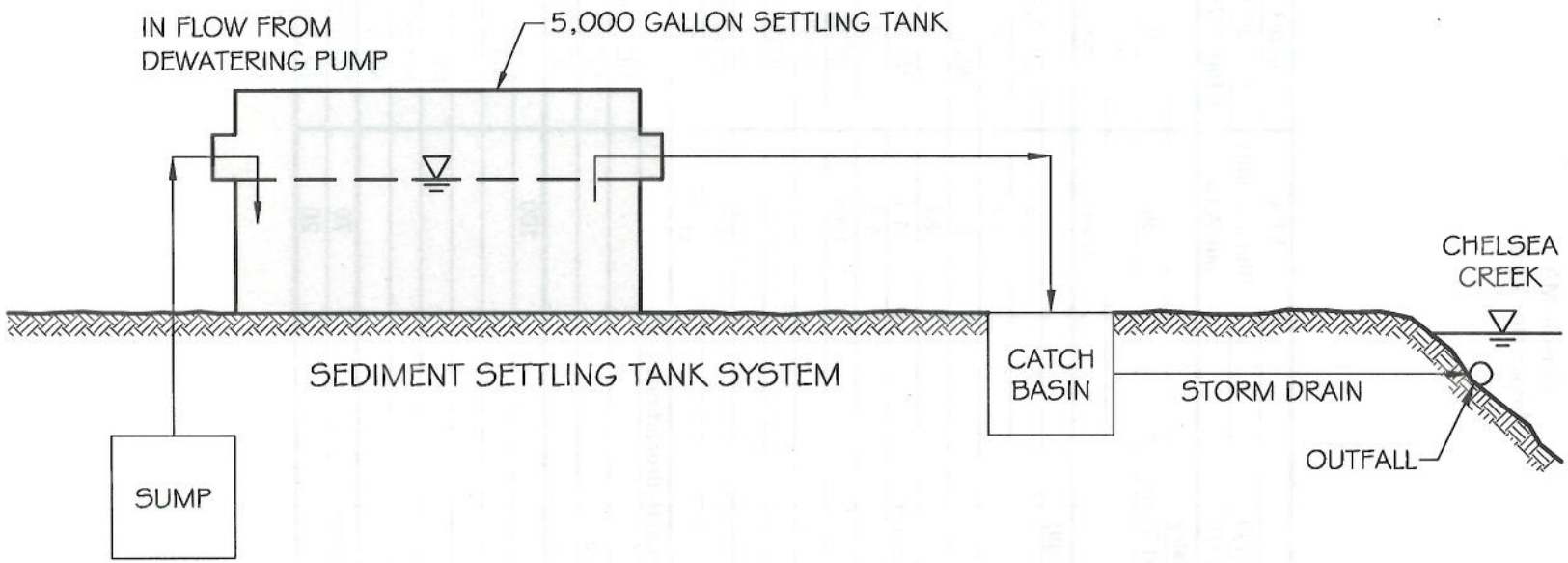
FOR
WEBSTER BLOCK LLC
BY
McPHAIL ASSOCIATES, INC.
CONSULTING GEOTECHNICAL ENGINEERS

Date: MAY 2010	Dwn: F.G.P.	Chkd: W.J.B.	Scale: 1" = 50'
Project No: 4526			

FILE NAME: 4526 P02_Schematic

FILE NAME: 4526-F03_Schematic

FIGURE 3



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1 WEBSTER AVENUE
CHELSEA MASSACHUSETTS

SCHEMATIC OF WATER FLOW

FOR
WEBSTER BLOCK LLC
BY
McPHAIL ASSOCIATES, INC.
CONSULTING GEOTECHNICAL ENGINEERS

Date: MAY 2010	Dwn: F.G.P.	Chkd: W.J.B.	Scale: N.T.S.
Project No: 4526			

TABLE 1
DGP Permit Groundwater Analysis

1 Webster Avenue
Chelsea, MA
Project No. 4526

LOCATION	EPA	B-203
SAMPLING DATE	Effluent Limits	5/14/2010
LAB SAMPLE ID	Salt Water	L1007197-01
General Chemistry		
Total Suspended Solids (mg/l)	30	19
Chloride (mg/l)		61
pH (SU)	6.5-8.5	6.9
Total Metals (ug/l)		
Antimony	5.6	ND [0.5]
Arsenic	10	6.5
Cadmium	0.2	ND [0.2]
Chromium	48.8	0.5
Chromium, Hexavalent	11.4	ND [10]
Copper	5.2	0.7
Iron	1000	20000
Dissolved Iron		2,500
Mercury	0.9	ND [0.2]
Nickel	29	0.7
Silver	1.2	ND [0.4]
Zinc	66.6	ND [10.0]
Volatile Petroleum Hydrocarbons (ug/l)		
C5-C8 Aliphatics		ND [50]
C9-C10 Aromatics		ND [50]
C9-C12 Aliphatics		ND [50]
Total BTEX	100	
Benzene		ND [2.0]
Ethylbenzene		ND [2.0]
o-Xylene		ND [2.0]
p/m-Xylene		ND [2.0]
Toluene		ND [2.0]
Methyl tert butyl ether	70	ND [3.0]
Naphthalene	20	ND [10.0]

McPHAIL ASSOCIATES, INC

Geotechnical Engineers

APPENDIX A

Limitations

McPHAIL ASSOCIATES, INC

Geotechnical Engineers

Limitations

The purpose of this report is to present a summary of subsurface conditions, including the results of testing of groundwater samples obtained from monitoring wells on the property identified as 1 Webster Avenue in Chelsea, Massachusetts, in support of an application for approval of construction site dewatering discharge into surface waters of the Commonwealth of Massachusetts under EPA's Massachusetts Dewatering General Permit MAG070000.

The observations were made under the conditions stated in this report. The conclusions presented above were based on these observations. If variations in the nature and extent of subsurface conditions between the widely spaced subsurface explorations become evident in the future, it will be necessary to re-evaluate the conclusions presented herein after performing on-site observations and noting the characteristics of any variations.

The conclusions submitted in this report are based in part upon chemical test data obtained from analysis of groundwater samples, and are contingent upon their validity. The data have been reviewed, and interpretations have been made in the text. It should also be noted that fluctuations in the types and levels of contaminants and variations in their flow paths may occur due to changes in seasonal water table, past practices used in disposal and other factors.

Chemical analyses have been performed for specific constituents during the course of this site assessment, as described in the text. However, it should be noted that additional chemical constituents not searched for during the current study may be present in soil and/or groundwater at the site.

This report and application have been prepared on behalf of and for the exclusive use of Webster Block LLC and Northeast Interiors, Inc. This report and the findings contained herein shall not, in whole or in part, be disseminated or conveyed to any other party nor used in whole or in part by any other party without prior written consent of McPhail Associates, Inc.

McPHAIL ASSOCIATES, INC

Geotechnical Engineers

APPENDIX B

Notice of Intent for Construction Site Dewatering

Massachusetts DEP Transmittal Form for Permit Application

II. Suggested Notice of Intent (NOI) Form

1. General facility information. Please provide the following information about the facility.

a) Name of facility:	**Mailing Address for the Facility:** 1 Webster Avenue, Chelsea MA	
b) Location Address of the Facility (if different from mailing address):	**Facility Location** **longitude:** 71.02 **latitude:** 42.39	**Type of Business:** Construction Site **Facility SIC codes:**

c) Name of facility owner: Webster Block LLC **Owner's email:** DaveGreaney@synergyboston.com

Owner's Tel #: 617 204-9506 **Owner's Fax #:** 617-204-9508

Address of owner (if different from facility address)

115 Broad Street, 4th Floor
Boston MA 02110

Owner is (check one): 1. Federal____ 2. State _____ 3.Tribal_____ 4. Private ✓ 4. Other _____(Describe)

Legal name of Operator, if not owner: _____

Operator Contact Name: _____

Operator Tel Number: _____ **Fax Number:** _____

Operator's email: _____

Operator Address (if different from owner)

d) Attach a topographic map indicating the location of the facility and the outfall(s) to the receiving water. Map attached? ✓

e) Check Yes or No for the following:

1. **Has a prior NPDES permit been granted for the discharge? Yes ____ No ✓ If Yes, Permit Number:** _____
2. **Is the discharge a "new discharge" as defined by 40 CFR Section 122.22? Yes_____ No ✓**
3. **Is the facility covered by an individual NPDES permit? Yes_____ No ✓ If Yes, Permit Number ____**
4. **Is there a pending application on file with EPA for this discharge? Yes _____ No ✓ If Yes, date of submittal:**


APPROXIMATE LOCATION OF SUBJECT SITE
APPROXIMATE LOCATION OF OUTFALL CH0018
REVERE
CHELSEA
BOSTON
WOODLAWN CEMETERY
Glenwood Cem
Mt Washington
Powder Horn Hill
Mt Bellingham
Orient Heights
Suffolk Downs Station
Constitution Beach
HARBOR
BOSTON HARBOR
East Boston
Logan International Airport
WINTHROP
Chelsea Point
Court Park
Cottage Park
Tidal Flat
Substation
Armory
Memorial Stadium
Brown Circle
Jeffries Point

2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed)

a) **Name of receiving water into which discharge will occur:** Chelsea Creek
State Water Quality Classification: SB **Freshwater:** _____ **Marine Water:** X

b) **Describe the discharge activities for which the owner/applicant is seeking coverage:**
1. **Construction dewatering of groundwater intrusion and/or storm water accumulation.** See Attached Report
2. **Short-term or long-term dewatering of foundation sumps.**
3. **Other.**

c) **Number of outfalls** 1

For each outfall:

d) **Estimate the maximum daily and average monthly flow of the discharge (in gallons per day – GPD). Max Daily Flow** 72,000 **GPD**
Average Monthly Flow 144000 **GPD**

e) **What is the maximum and minimum monthly pH of the discharge (in s.u.)? Max pH** 8.5 **Min pH** 6.5

f) **Identify the source of the discharge (i.e. potable water, surface water, or groundwater). If groundwater, the facility shall submit effluent test results, as required in Section 4.4.5 of the General Permit.** Groundwater, See attached Report

g) **What treatment does the wastewater receive prior to discharge?** Sedimentation settling tank, see attached report.

h) **Is the discharge continuous? Yes** _____ **No** ✓ **If no, is the discharge periodic (P) (occurs regularly, i.e., monthly or seasonally, but is not continuous all year) or intermittent (I) (occurs sometimes but not regularly) or both (B)** B
If (P), number of days or months per year of the discharge _____ **and the specific months of discharge** _____;
If (I), number of days/year there is a discharge _____
Is the discharge temporary? Yes ✓ **No** _____
If yes, approximate start date of dewatering June 15, 2010 **approximate end date of dewatering** June 15, 2012

i) **Latitude and longitude of each discharge within 100 feet (See http://www.epa.gov/tri/report/siting_tool): Outfall 1: long.** 71.02 **lat.** 42.23 ;
Outfall 2: long._____ **lat.**_____; **Outfall 3: long.**_____ **lat.**_____.

j) **If the source of the discharge is potable water, please provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water and attach any calculation sheets used to support stream flow and dilution calculations**_____ **cfs**
(See Appendix VII for equations and additional information)

MASSACHUSETTS FACILITIES: See Section 3.4 and Appendix 1 of the General Permit for more information on Areas of Critical Environmental Concern (ACEC):

k) **Does the discharge occur in an ACEC? Yes _____ No ✓**
If yes, provide the name of the ACEC: _____

3. Contaminant Information

a) **Are any pH neutralization and/or dechlorination chemicals used in the discharge? If so, include the chemical name and manufacturer; maximum and average daily quantity used as well as the maximum and average daily expected concentrations (mg/l) in the discharge, and the vendor's reported aquatic toxicity (NOAEL and/or LC_{50} in percent for aquatic organism(s)).** See attached report

b) **Please report any known remediation activities or water-quality issues in the vicinity of the discharge.** See attached report

4. Determination of Endangered Species Act Eligibility: Provide documentation of ESA eligibility as required at Part 3.4 and Appendices III and IV. In addition, respond to the following questions.

a) **Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes___No ✓**
b) **Has any consultation with the federal services been completed ? Yes___ No ✓**
c) **Is consultation underway? Yes ____ No ✓**
d) **What were the results of the consultation with the U.S. Fish and Wildlife Service and/or NOAA Fisheries Service (check one): a "no jeopardy" opinion _____or written concurrence____ on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat.**
e) **Which of the five eligibility criteria listed in Appendix 2, Section B (A,B,C,D,or E) have you met?** A
f) **Please attach a copy of the most current federal listing of endangered and threatened species, found at USF&W website.**

5. Documentation of National Historic Preservation Act requirements: Please respond to the following questions:

a) **Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility site or in proximity to the discharge? Yes _____ No ✓**
b) **Have any State or Tribal historic preservation officers been consulted in this determination? Yes _____ or No ✓ If yes, attach the results of the consultation(s).**
c) **Which of the three National Historic Preservation Act requirements listed in Appendix 3, Section C (1,2 o3) have you met?** 1

6. Supplemental Information: Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit

7. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22 (see below) including the following certification:

I certify under penalty of law that (1) no biocides or other chemical additives except for those used for pH adjustment and/or dechlorination are used in the dewatering system; (2) the discharge consists solely of dewatering and authorized pH adjustment and/or

dechlorination chemicals; (3) the discharge does not come in contact with any raw materials, intermediate product, water product or finished product; (4) if the discharge of dewatering subsequently mixes with other permitted wastewater (i.e.stormwater) prior to discharging to the receiving water, any monitoring provided under this permit will be only for dewatering discharge; (5) where applicable, the facility has complied with the requirements of this permit specific to the Endangered Species Act and National Historic Preservation Act; and (6) this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted.

Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility Name: 1 Webster Avenue

Operator signature:

Title: MANAGER/OWNER

Date:

Federal regulations require this application to be signed as follows:

1. For a corporation, by a principal executive officer of at least the level of vice president;
2. For partnership or sole proprietorship, by a general partner or the proprietor, respectively, or,
3. For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.