

Brownfield Cleanup Program Application

(Revised from June 2006 submission)

*Buffalo Development Corp. Hotel Site
Buffalo, New York*

June 2007

0099-003-100

Prepared For:

Buffalo Development Corp.

Prepared By:





**NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**



BROWNFIELD CLEANUP PROGRAM (BCP)

ECL ARTICLE 27 / TITLE 14

DEPARTMENT USE ONLY BCP SITE #: _____
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7/06

Section I. Requestor Information				
NAME				
ADDRESS				
CITY/TOWN		ZIP CODE		
PHONE	FAX	E-MAIL		
NAME OF REQUESTOR'S REPRESENTATIVE				
ADDRESS				
CITY/TOWN		ZIP CODE		
PHONE	FAX	E-MAIL		
NAME OF REQUESTOR'S CONSULTANT				
ADDRESS				
CITY/TOWN		ZIP CODE		
PHONE	FAX	E-MAIL		
NAME OF REQUESTOR'S ATTORNEY				
ADDRESS				
CITY/TOWN		ZIP CODE		
PHONE	FAX	E-MAIL		
<p>THE REQUESTOR MUST CERTIFY THAT HE/SHE IS EITHER A PARTICIPANT OR VOLUNTEER IN ACCORDANCE WITH ECL § 27-1405 (1) BY CHECKING ONE OF THE BOXES BELOW:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <p>PARTICIPANT</p> <p>A requestor who either 1) was the owner of the site at the time of the disposal of hazardous waste or discharge of petroleum or 2) is otherwise a person responsible for the contamination, unless the liability arises solely as a result of ownership, operation of, or involvement with the site subsequent to the disposal of hazardous waste or discharge of petroleum.</p> </td> <td style="width: 50%; vertical-align: top;"> <p>VOLUNTEER</p> <p>A requestor other than a participant, including a requestor whose liability arises solely as a result of ownership, operation of or involvement with the site subsequent to the disposal of hazardous waste or discharge of petroleum.</p> <p>NOTE: By checking this box, the requestor certifies that he/she has exercised appropriate care with respect to the hazardous waste found at the facility by taking reasonable steps to: i) stop any continuing discharge; ii) prevent any threatened future release; and iii) prevent or limit human, environmental, or natural resource exposure to any previously released hazardous waste.</p> </td> </tr> </table>			<p>PARTICIPANT</p> <p>A requestor who either 1) was the owner of the site at the time of the disposal of hazardous waste or discharge of petroleum or 2) is otherwise a person responsible for the contamination, unless the liability arises solely as a result of ownership, operation of, or involvement with the site subsequent to the disposal of hazardous waste or discharge of petroleum.</p>	<p>VOLUNTEER</p> <p>A requestor other than a participant, including a requestor whose liability arises solely as a result of ownership, operation of or involvement with the site subsequent to the disposal of hazardous waste or discharge of petroleum.</p> <p>NOTE: By checking this box, the requestor certifies that he/she has exercised appropriate care with respect to the hazardous waste found at the facility by taking reasonable steps to: i) stop any continuing discharge; ii) prevent any threatened future release; and iii) prevent or limit human, environmental, or natural resource exposure to any previously released hazardous waste.</p>
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Requestor Relationship to Property (check one):				
Previous Owner	Current Owner	Potential /Future Purchaser Other _____		
If requestor is not the site owner, requestor will have access to the property throughout the BCP project.		Yes No		
(Note: proof of site access must be submitted for non-owners)				

Section II. Property Information Summary Sheet

PROPERTY NAME:

ADDRESS/LOCATION

CITY/TOWN

ZIP CODE

MUNICIPALITY (IF MORE THAN ONE, LIST ALL):

COUNTY

SITE SIZE (ACRES)

LATITUDE (degrees/minutes/seconds) ° ‘ “

LONGITUDE (degrees/minutes/seconds) ° ‘ “

HORIZONTAL COLLECTION METHOD: SURVEY GPS MAP

HORIZONTAL REFERENCE DATUM:

FOR EACH PARCEL, FILL OUT THE FOLLOWING TAX MAP INFORMATION (if more than three parcels, attach additional information)

Parcel Address	Parcel No.	Section No.	Block No.	Lot No.	Acreage

1. Do the property boundaries correspond to tax map metes and bounds? Yes No
 If no, please attach a metes and bounds description of the property.

2. Is the required property map attached to the application? (application will not be processed without map) Yes No

3. Is the property part of a designated En-zone pursuant to Tax Law § 21(b)(6)? Yes No

For more information go to: http://www.nylovesbiz.com/BrownField_Redevelopment/default.asp.

If yes, identify area (name) _____

50% 100% of the site is in the En-zone (check one)

PROPERTY DESCRIPTION NARRATIVE:

List of Existing Easements (type here or attach information)

Easement Holder

Description

List of Permits issued by the NYSDEC or USEPA Relating to the Proposed Site (type here or attach information)

Type

Issuing Agency

Description

Initials of each Requestor: _____

Section III. Current Site Owner/Operator Information

OWNER'S NAME (if different from requestor)

ADDRESS

CITY/TOWN

ZIP CODE

PHONE

FAX

E-MAIL

OPERATOR'S NAME (if different from requestor or owner)

ADDRESS

CITY/TOWN

ZIP CODE

PHONE

FAX

E-MAIL

Section IV. Requestor Eligibility Information (Please refer to ECL § 27-1407)

If answering "yes" to any of the following questions, please provide an explanation as an attachment.

- | | | |
|--|-----|----|
| 1. Are any enforcement actions pending against the requestor regarding this site? | Yes | No |
| 2. Is the requestor subject to an existing order relating to contamination at the site? | Yes | No |
| 3. Is the requestor subject to an outstanding claim by the Spill Fund for this site? | Yes | No |
| 4. Has the requestor been determined to have violated any provision of ECL Article 27? | Yes | No |
| 5. Has the requestor previously been denied entry to the BCP? | Yes | No |
| 6. Has the requestor been found in a civil proceeding to have committed a negligent or intentionally tortious act involving contaminants? | Yes | No |
| 7. Has the requestor been convicted of a criminal offense that involves a violent felony, fraud, bribery, perjury, theft, or offense against public administration? | Yes | No |
| 8. Has the requestor knowingly falsified or concealed material facts or knowingly submitted or made use of a false statement in a matter before the Department? | Yes | No |
| 9. Is the requestor an individual or entity of the type set forth in ECL 27-1407.8(f) that committed an act or failed to act, and such act or failure to act could be the basis for denial of a BCP application? | Yes | No |

Section V. Property Eligibility Information (Please refer to ECL § 27-1405)

- | | | |
|--|-----|----|
| 1. Is the property listed on the National Priorities List? | Yes | No |
| 2. Is the property listed on the NYS Registry of Inactive Hazardous Waste Disposal Sites?
If yes, please provide: Site # _____ Class # _____ | Yes | No |
| 3. Is the property subject to a permit under ECL Article 27, Title 9, other than an Interim Status facility?
If yes, please provide: Permit type: _____ EPA ID Number: _____
Date permit issued: _____ Permit expiration date: _____ | Yes | No |
| 4. Is the property subject to a cleanup order under navigation law Article 12 or ECL Article 17 Title 10?
If yes, please provide: Order # _____ | Yes | No |
| 5. Is the property subject to a state or federal enforcement action related to hazardous waste or petroleum?
If yes, please provide explanation as an attachment. | Yes | No |

Section VI. Project Description

Please attach a description of the project which includes the following components:

- Purpose and scope of the project
- Estimated project schedule

Section VII. Property's Environmental History

To the extent that existing information/studies/reports are available to the requestor, please attach the following:

1. Environmental Reports

A phase I environmental site assessment report prepared in accordance with ASTM E 1527 (American Society for Testing and Materials: Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process), and all environmental reports related to contaminants on or emanating from the site.

If a final investigation report is included, indicate whether it meets the requirements of ECL Article 27-1415(2): Yes No

2. Sampling Data: Indicate known contaminants and the media which are known to have been affected:

Contaminant Category	Soil	Groundwater	Surface Water	Sediment	Soil Gas
Petroleum					
Chlorinated Solvents					
Other VOCs					
SVOCs					
Metals					
Pesticides					
PCBs					
Other*					

*Please describe: _____

3. Suspected Contaminants: Indicate suspected contaminants and the media which may have been affected:

Contaminant Category	Soil	Groundwater	Surface Water	Sediment	Soil Gas
Petroleum					
Chlorinated Solvents					
Other VOCs					
SVOCs					
Metals					
Pesticides					
PCBs					
Other*					

*Please describe: _____

4. INDICATE KNOWN OR SUSPECTED SOURCES OF CONTAMINANTS:

Above Ground Pipeline or Tank	Lagoons or Ponds	Underground Pipeline or Tank	Surface Spill or Discharge
Routine Industrial Operations	Dumping or Burial of Wastes	Septic tank/lateral field	Drums or Storage Containers
Adjacent Property	Seepage Pit or Dry Well	Foundry Sand	Electroplating
Coal Gas Manufacture	Industrial Accident	Unknown	

Other: _____

5. INDICATE PAST LAND USES:

Coal Gas Manufacturing	Manufacturing	Agricultural Co-op	Dry Cleaner	Salvage Yard	Bulk Plant
Pipeline	Service Station	Landfill	Tannery	Electroplating	Unknown

Other: _____

6. Owners

A list of previous owners with names, last known addresses and telephone numbers (describe requestor's relationship, if any, to each previous owner listed. If no relationship, put "none").

7. Operators

A list of previous operators with names, last known addresses and telephone number (describe requestor's relationship, if any, to each previous operator listed. If no relationship, put "none").

Section VIII. Contact List Information

Please attach, at a minimum, the names and addresses of the following:

1. The chief executive officer and zoning board chairperson of each county, city, town and village in which the property is located.
2. Residents, owners, and occupants of the property and properties adjacent to the property.
3. Local news media from which the community typically obtains information.
4. The public water supplier which services the area in which the property is located.
5. Any person who has requested to be placed on the contact list.
6. The administrator of any school or day care facility located on or near the property.
7. The location of a document repository for the project (e.g., local library). In addition, attach a copy of a letter sent to the repository acknowledging that it agrees to act as the document repository for the property.

Section IX. Land Use Factors (Please refer to ECL § 27-1415(3))

Current Use: Residential Commercial Industrial Vacant Recreational (check all that apply)

Intended Use: Unrestricted Residential Commercial Industrial

Please check the appropriate box and provide an explanation as an attachment if appropriate. Provide a copy of the local zoning classifications, comprehensive zoning plan designations, and/or current land use approvals.

Yes No

1. Do current historical and/or recent development patterns support the proposed use? (See #12 below re: discussion of area land uses)

2. Is the proposed use consistent with applicable zoning laws/maps?

3. Is the proposed use consistent with applicable comprehensive community master plans, local waterfront revitalization plans, designated Brownfield Opportunity Area plans, other adopted land use plans?

4. Are there any Environmental Justice Concerns? (See §27-1415(3)(p)).

5. Are there any federal or state land use designations relating to this site?

6. Do the population growth patterns and projections support the proposed use?

7. Is the property accessible to existing infrastructure?

8. Are there important cultural resources, including federal or state historic or heritage sites or Native American religious sites within ½ mile?

9. Are there important federal, state or local natural resources, including waterways, wildlife refuges, wetlands, or critical habitats of endangered or threatened species within ½ mile?

10. Are there floodplains within ½ mile?

11. Are there any institutional controls currently applicable to the property?

12. Describe on attachment the proximity to real property currently used for residential use, and to urban, commercial, industrial, agricultural, and recreational areas.

13. Describe on attachment the potential vulnerability of groundwater to contamination that might migrate from the property, including proximity to wellhead protection and groundwater recharge areas.

14. Describe on attachment the geography and geology of the site.

Statement of Certification and Signatures

(By requestor who is an individual)

I hereby affirm that information provided on this form and its attachments is true and complete to the best of my knowledge and belief. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to section 210.45 of the Penal Law.

Date: [REDACTED] Signature: [REDACTED] Print Name: [REDACTED]

(By an requestor other than an individual)

I hereby affirm that I am PRESIDENT (title) of BUFFALO DEVELOPMENT CORPORATION (entity); that I am authorized by that entity to make this application; that this application was prepared by me or under my supervision and direction; and that information provided on this form and its attachments is true and complete to the best of my knowledge and belief. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Date: 06/07/07 Signature: Mark D. Croce Print Name: MARK D. CROCE

SUBMITTAL INFORMATION:

Three (3) complete copies are required.

- **Two (2)** copies, one hard copy with original signatures and one electronic copy in Portable Document Format (PDF) on a CD or diskette, must be sent to:

Chief, Site Control Section
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, NY 12233-7020

- **One (1)** hard copy must be sent to the DEC regional contact in the regional office covering the county in which the site is located. Please check our website for the address of our regional offices: <http://www.dec.state.ny.us/website/der/index.html>

FOR DEPARTMENT USE ONLY

BCP SITE T&A CODE: _____ LEAD OFFICE: _____

LIST OF APPLICATION ATTACHMENTS

*NYSDEC Brownfield Cleanup Program Application
Buffalo Development Corp.
Buffalo Development Corp. Hotel Site
Buffalo, New York*

Attachment No.	Description
1	Site Location Map and Site Plan
2	Tax Maps
3	Project Description and Schedule
4	Site Redevelopment Plan
5	Previous Investigations
6	Listing of Previous Site Owners
7	Listing of Previous Site Operators
8	Contact List Information
9	Document Repository Confirmation Letter
10	Environmental Factors and Historic Land Use Considerations
11	Nearby Land-Use Map
12	Groundwater Vulnerability Assessment
13	Description of Site Geography & Geology

ATTACHMENT 01

SITE DESCRIPTION, SITE LOCATION MAP & SITE PLAN

Attachment 01

Site Description

Buffalo Development Corp. Hotel Site Brownfield Cleanup Program Application

SITE DESCRIPTION

The subject property (Site) is currently developed with one apartment building and an asphalt covered surface parking lot comprised of four contiguous parcels of land totaling approximately 0.97 acres in the City of Buffalo, County of Erie, New York (see Figures 1-1 and 1-2).

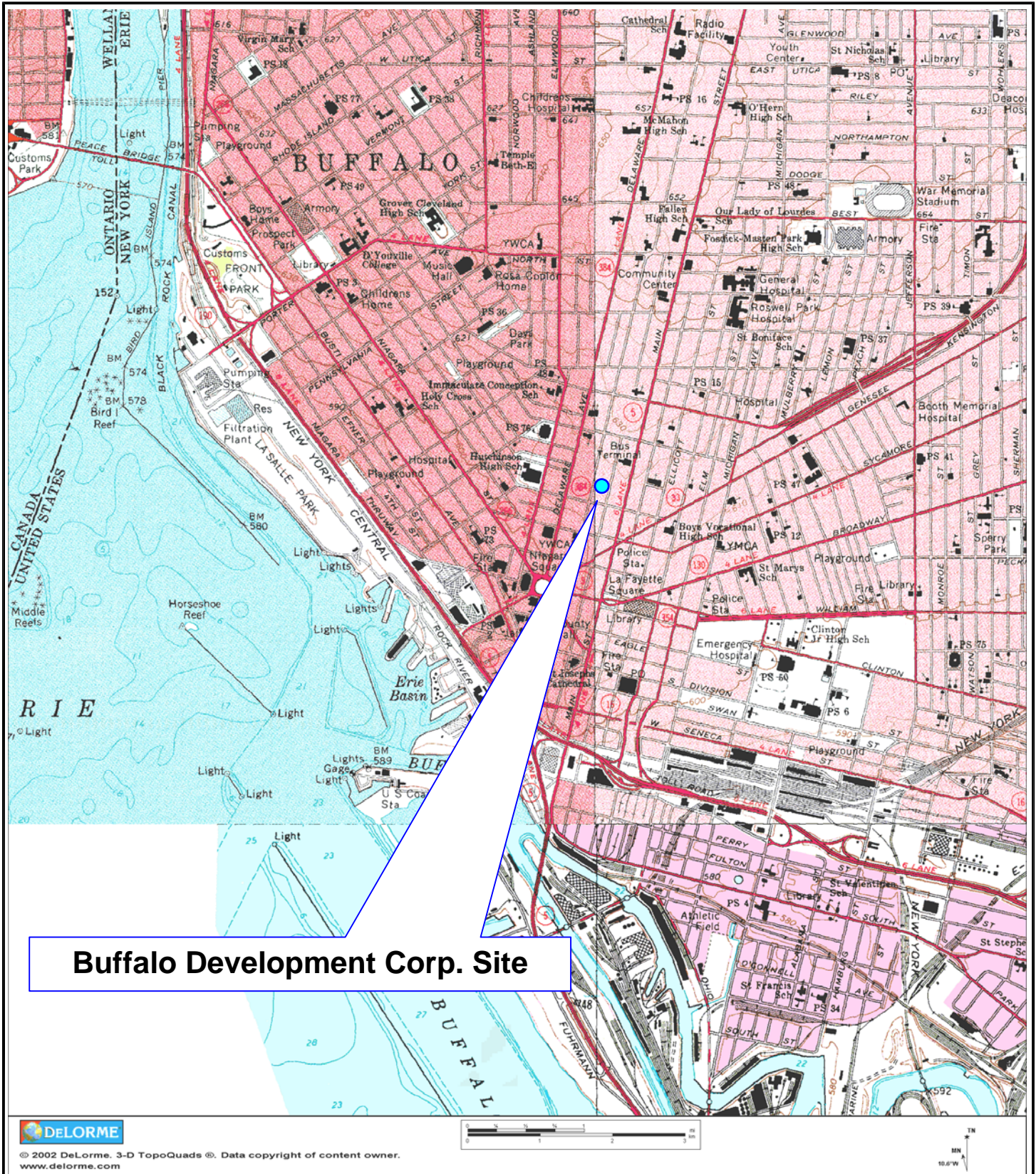
The four parcels, which comprise the Site, are:

- 267 Franklin Street, Buffalo, New York (SBL No. 111.38-2-20.1, approx. 0.25-acres)
- 275-277 Franklin Street, Buffalo, New York (SBL No. 111.38-2-22, approx. 0.14-acres)
- 279 Franklin Street, Buffalo, New York (SBL No. 111.38-2-23, approx. 0.13-acres)
- 432 Pearl Street, Buffalo, New York (SBL No. 111.38-2-4.1, approx. 0.45-acres)

Parcel addresses listed above per Erie County GIS Maps website.

The Site is bound by a surface parking lot and restaurant to the north, Pearl Street to the east, Franklin Street to the west, and a commercial printing shop to the south. Additionally, Asbury Alley runs through the Site in an approximate north-south direction.

The Site neighbors include various commercial buildings or surface parking lots surrounding the Site. Shea's Performing Arts Center is located across Pearl Street to the east of the Site. There are no private residences adjacent to the Site (besides the on-Site apartment building). A surrounding land-use map is included in Attachment 11.



Buffalo Development Corp. Site



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www.delorme.com



726 EXCHANGE STREET
SUITE 624
BUFFALO, NEW YORK 14210
(716) 856-0599

SITE LOCATION AND VICINITY MAP
BROWNFIELD CLEANUP PROGRAM APPLICATION

BUFFALO DEVELOPMENT CORP. SITE
BUFFALO, NEW YORK

PREPARED FOR
BUFFALO DEVELOPMENT CORPORATION

PROJECT NO.: 2099-002-100

DATE: JUNE 2006

DRAFTED BY: BCH

**Buffalo Development Corporation Hotel Site
Brownfield Cleanup Program Application**



726 EXCHANGE STREET
SUITE 624
BUFFALO, NEW YORK 14210
(716) 856-0599

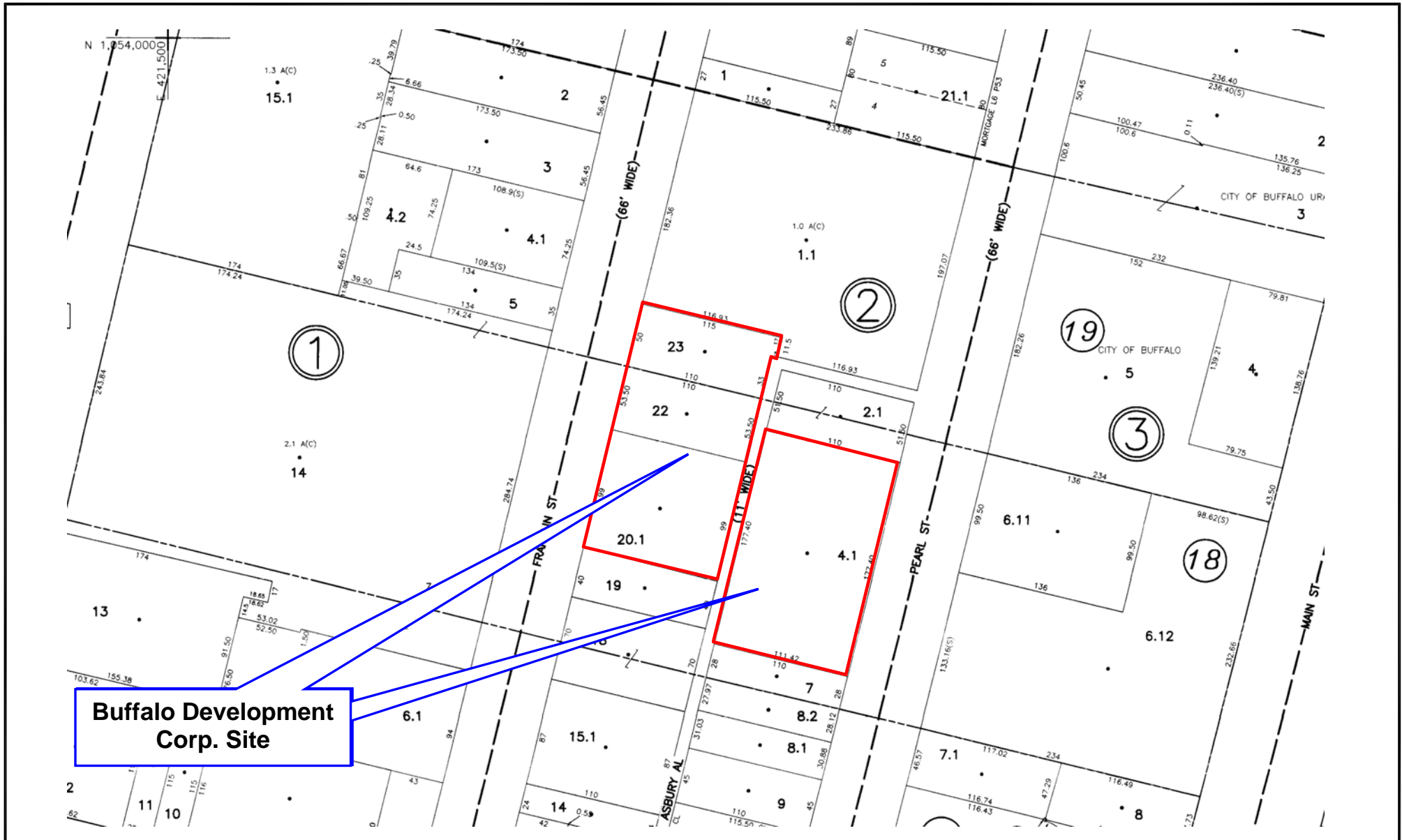
PROJECT NO.: 0099-003-100
DATE: MAY 2007
DRAFTED BY: BCH/NTM

SITE LOCATION PLAN
BROWNFIELD CLEANUP PROGRAM APPLICATION
BUFFALO DEVELOPMENT CORP. SITE
BUFFALO, NEW YORK
PREPARED FOR
BUFFALO DEVELOPMENT CORPORATION

FIGURE 1-2

ATTACHMENT 02

TAX MAP



Buffalo Development Corp. Site



726 EXCHANGE STREET
SUITE 624
BUFFALO, NEW YORK 14210
(716) 856-0599

PROJECT NO.: 0099-002-100

DATE: MAY 2007

DRAFTED BY: BCH/NTM

TAX MAP
BROWNFIELD CLEANUP PROGRAM APPLICATION
BUFFALO DEVELOPMENT CORP. SITE
BUFFALO, NEW YORK

PREPARED FOR
BUFFALO DEVELOPMENT CORPORATION

FIGURE 2-1

ATTACHMENT 03

PROJECT DESCRIPTION & SCHEDULE

Attachment 03
Project Description and Schedule

Buffalo Development Corp.
Hotel Site
Brownfield Cleanup Program Application

BACKGROUND

Buffalo Development Corporation (BDC) is the contract vendee to four contiguous parcels in the former film district of the City of Buffalo between Franklin and Pearl Streets and Chippewa and Tupper Streets, of which it has ownership in three parcels and a contract to purchase a fourth parcel within the Project Redevelopment Area.

The Project Redevelopment Area is comprised of four contiguous environmentally impaired parcels in the City of Buffalo, New York, encompassing approximately 0.97 acres consisting of 267 Franklin Street (~0.25 acres) 275-277 Franklin Street (~0.14 acres), 279 Franklin Street (~0.13 acres), and 432 Pearl Street (~0.45 acres).

There is one residential apartment building located on the 267 Franklin Street parcel. Otherwise, there are no structures on the Site. 275-277 Franklin Street had previously been a dry-cleaning operation before its prior owners abandoned operations and defaulted on their municipal tax obligations resulting in its sale in the City's In Rem tax foreclosure auction in 2004. The 1925 Sanborn Fire Insurance Map indicates 432 Pearl was located in between a radiator manufacturer and carpet cleaning company. The 275-277 Franklin Street, 279 Franklin Street and 432 Pearl Street parcels are now underutilized as surface parking lots. Franklin Street in the immediate area of the Project is mixed use commercial and residential with a concentration on entertainment. Pearl Street as it adjoins the site is predominantly commercial servicing the City's Theatre District.

The proposed redevelopment of the parcels by BDC will include the construction of a multi level 125-150 unit extended stay hotel tower with a health club and banquet facility which will serve the adjoining commercial and entertainment uses. The contemplated development would total approximately 150,000 square feet of commercial space. The contemplated structures compliment the City's Urban Renewal Plan for the area. Adjoining the hotel tower will be mixed use commercial space, underlying an elevated parking structure.

The proposed redevelopment project would turn underutilized urban property to productive reuse with a capital investment of approximately \$30 million dollars to redevelop the site. The proposed site redevelopment will create approximately 100 short-term construction jobs and 150 long-term jobs.

Attachment 03
Project Description and Schedule

Buffalo Development Corp.
Hotel Site
Brownfield Cleanup Program Application

KNOWN AND SUSPECTED ENVIRONMENTAL CONDITIONS

A Limited Environmental Investigation was performed at 275-277 Franklin Street by Nature's Way Environmental Consultants & Contractors, Inc. in September 2004. That investigation identified tetrachloroethene (PCE) in groundwater and saturated soil at the site.

In March 2006, Benchmark performed a Preliminary Site Investigation at 279 Franklin Street and 432 Pearl Street. The Preliminary Site Investigation was performed to assess soil/fill materials and soil vapor on-site and to ascertain if subsurface environmental conditions on these parcels were likely to impact Site redevelopment. The results of the investigation indicate that Site soils have been impacted by semi-volatile organic compounds (SVOCs), mercury, and lead. In addition, soil vapor samples collected from 279 Franklin Street and 432 Pearl Street contained one or more chlorinated volatile organic compounds VOCs that are linked to the impacted groundwater from the former dry cleaning operations at 275-277 Franklin.

A Remedial Investigation was completed by Benchmark in November 2006 through January 2007 (a copy of the draft RI report was submitted to the NYSDEC Region 9 office in May 2007). The results of that investigation indicated that the shallow groundwater (approximately eight to ten feet below ground surface) across the Project Redevelopment Area has been impacted by PCE. Shallow soil gas samples collected at the 432 Pearl Street parcel also indicated that soil gas is present at concentrations that may pose significant vapor intrusion concern in future on-site buildings.

The results of the previous investigations indicate that the Project Site's saturated soils, soil gases, and/or groundwater have been impacted by PCE, a chlorinated VOC, typically associated with dry cleaning operations. The environmental impacts will severely hinder reuse of the site without implementation of a remediation plan. As site redevelopment places foundations and slabs closer to the shallow groundwater the potential impacts of soil vapor are expected to be greater.

SCHEDULE

A proposed Project Schedule is attached. During remediation, the property will be used for surface parking to the extent it can be safely separated from remediation activities. The interim use will help support the demand created by the surrounding theatre, entertainment,

Attachment 03
Project Description and Schedule

Buffalo Development Corp.
Hotel Site
Brownfield Cleanup Program Application

and dining facilities. It is anticipated that the construction phase of the project will last approximately two years after approval of final site plans and permits by the City.

PROJECT SCHEDULE
 BUFFALO DEVELOPMENT CORP.
 275 FRANKLIN STREET SITE
 BROWNFIELD CLEANUP PROGRAM APPLICATION

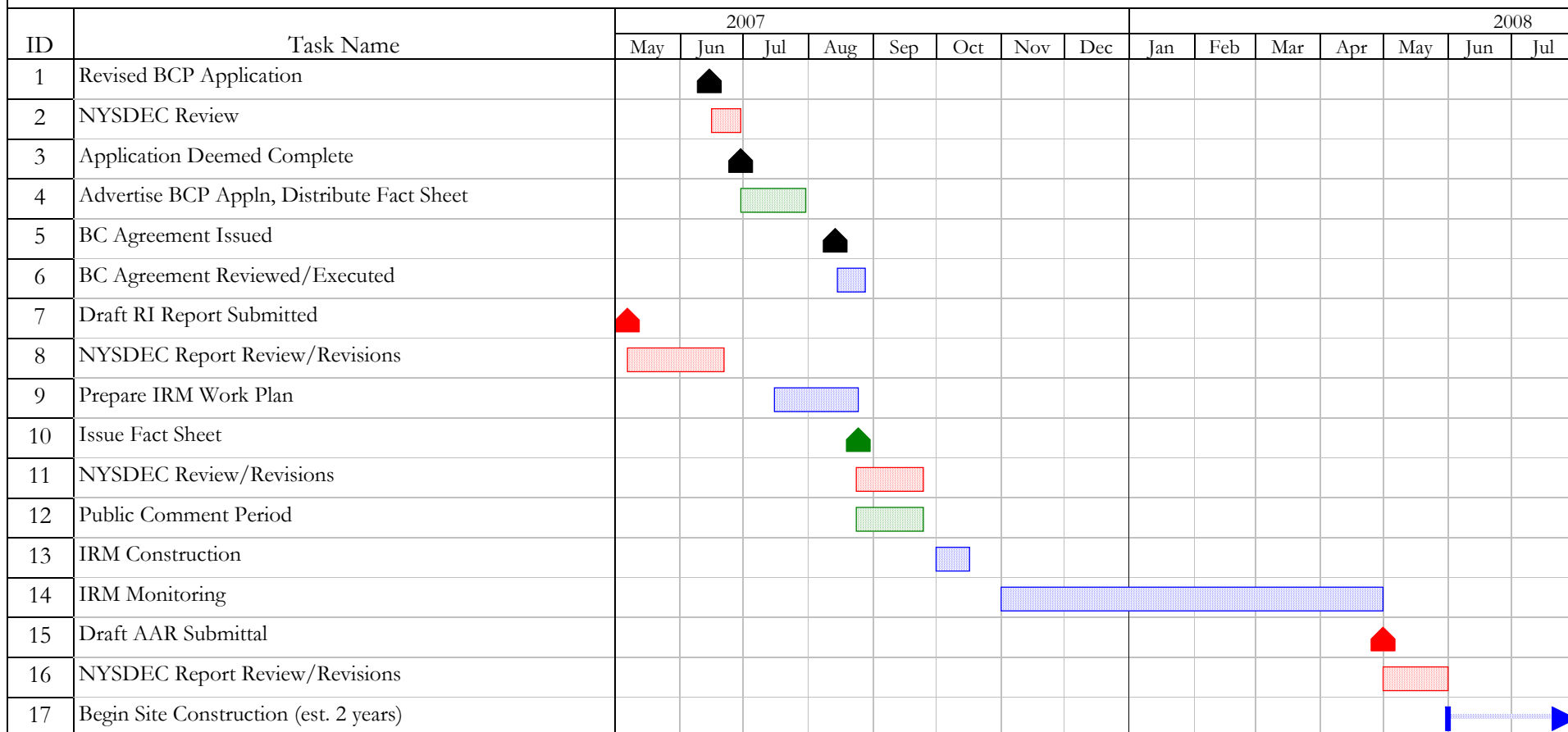


FIGURE 3-1

ATTACHMENT 04

SITE REDEVELOPMENT PLAN

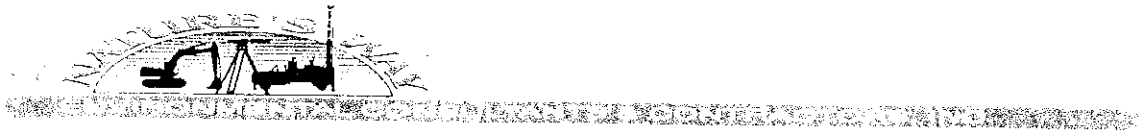
(TO BE DETERMINED)

ATTACHMENT 05

PREVIOUS INVESTIGATIONS

ATTACHMENT 05a

LIMITED ENVIRONMENTAL INVESTIGATION (SEPTEMBER 2004)



CRITTENDEN
(716) 937-6527
SYRACUSE
(315) 635-9818

September 15, 2004

Mark Croce
c/o Robert Knoer, Esq.
Knoer Crawford & Bender
14 Lafayette Square, Suite 1700
Buffalo, New York 14203

NOV 15 2004

Re: Limited Environmental Investigation
275 Franklin Street
Buffalo, New York


Gentlemen:

As we have discussed, please find the following summary of findings with respect to sampling and analytical testing of soil and groundwater at the above referenced site. I am providing this abbreviated summary so that you may proceed with written notification of appropriate parties. A more detailed report will follow.

At your request Nature's Way Environmental has performed a limited Phase II type Environmental Assessment of the subject property focused on potential impacts related to its former use as a dry-cleaner.

This work involved sampling subsurface soils at from two indoor and four outdoor locations, as shown on the attached site map. Groundwater samples were obtained through temporary well screens installed in two of the borings. Field instrument screening and observation indicated the presence of volatile organic compounds in samples from two of the borings (B-3 and B-5). Soil samples from 10-12 foot depth interval at those borings as well as groundwater samples from both temporary wells were analyzed for chlorinated organics by EPA Method 8010.

Laboratory analytical reports have confirmed the presence of Tetrachloroethene in all samples analyzed. It was reported at concentrations in excess of applicable NYS Groundwater Quality Standards in both groundwater samples; at 137,000 ppb in BMW-3 and 70,400 ppb in BMW-5, as compared to published standards ranging from 0.7 - 5 ppb. One of the soil samples was also reported to contain Tetrachloroethene at a level exceeding Recommended Soil Cleanup Objectives published NYSDEC TAGM #4046. Specifically, the sample from B-3 was reported to contain Tetrachloroethene at a concentration of 12,700 ppb in comparison with the 1.4 ppm (1,400 ppb) Recommended Soil Cleanup Objective. There were no other method target compounds identified in any of the samples. Copies of laboratory reports are attached.



CRITTENDEN
(716) 937-6527
SYRACUSE
(315) 635-9818

9/15/04

Mark Croce
Robert Knoerr
Page 2

Please call if you should have any questions or require additional information.

Respectfully,



Gregory J. Weber
Sr. Project Manager



CRITTENDEN
 (716) 937-6527
 SYRACUSE
 (315) 635-9818

Hole Number: B 2

DATE: 9/07/04

ELEVATION: _____

PROJECT: Subsurface Investigation at the Property Located at
275 Franklin Street, Buffalo, New York

PREPARED FOR: Knoer, Crawford & Bender

BORING LOCATION: See Map

SN	0/ 6	6/ 12	12/ 18	18/ 24	N	OVM	LITH	DESCRIPTION AND CLASSIFICATION	REC	COMMENTS	
0						0.0		Asphalt	0.3	1.4'	Asphalt to 0.3 foot over sandy fill with some gravel, cinders and bricks to 4.5 feet over water sorted and deposited sand with little silt to end of boring
1						3.0		Moist, dark gray to black, gravelly (SAND) fill with 20 to 40% gravel, cinders and red brick fragments		1.5'	
2						11.0			4.5	2.0'	Moist becoming wet below 8.5 feet (SILTY-SAND) with very fine to fine size sand, little silt, thinly bedded
3						0.0				2.0'	
4						0.0				2.0'	
5						0.0				2.0'	
6						0.0				2.0'	
10						0.0				2.0'	
15								Earthprobe Boring Completed at 12.0 feet	12.0		
20											

LOGGED BY: Dale M. Gramza / Senior Geologist PAGE 1 of 1



CRITTENDEN
 (716) 937-6527
 SYRACUSE
 (315) 635-9818

Hole Number: BMW 3

ELEVATION: _____

DATE: 9/07/04

PROJECT: Subsurface Investigation at the Property Located at
275 Franklin Street, Buffalo, New York

PREPARED FOR: Knoer, Crawford & Bender

BORING LOCATION: See Map

SN	0/ 6	6/ 12	12/ 18	18/ 24	N	OVM	LITH	DESCRIPTION AND CLASSIFICATION	REC	COMMENTS
1						0.0		Moist, dark brown, gravelly (SILTY-SAND) fill with 5 to 15% gravel, very fine to medium size sand, little silt	1.7'	Sandy fill with little gravel and silt to 1.0 feet over sandy fill with trace gravel to 2.0 feet over sandy fill with brick to 4.0 feet over water sorted and deposited sand to end of boring
2					0.0		Moist, brown (SAND) with 3 to 5% gravel, very fine to fine size sand, trace silt	1.8'		
3					0.0		Moist, light brown (SAND) fill with brick cobbles and fragments	1.4'		
4					0.0		Moist, light brown (SAND) with very fine size sand, trace silt, thinly bedded	1.6'		
5					0.0		Extremely moist to wet below 8.0 feet, brown (SAND) with very fine to fine size sand, little silt, thinly bedded	1.7'		
6					80.0		Earthprobe Boring Completed at 12.0 feet	1.8'		

LOGGED BY: Dale M. Gramza / Senior Geologist PAGE 1 of 1



CRITTENDEN
 (716) 937-6527
 SYRACUSE
 (315) 635-9818

Hole Number: B 4

DATE: 9/07/04

ELEVATION: _____

PROJECT: Subsurface Investigation at the Property Located at
275 Franklin Street, Buffalo, New York

PREPARED FOR: Knoer, Crawford & Bender

BORING LOCATION: See Map

SN	0/ 6	6/ 12	12/ 18	18/ 24	N	OVM	LITH	DESCRIPTION AND CLASSIFICATION	REC	COMMENTS
1						0.0		Black and dark brown (SILTY-SAND) fill with 5 to 15% gravel and occasional brick fragments	1.4'	Sandy fill with some gravel and brick to 2.0 feet over apparent water sorted and deposited sand with trace silt to 8.0 feet over water sorted and deposited sand with trace gravel and little silt to end of boring
2					0.0		Moist, light brown (SILTY-SAND) with very fine to fine size sand, trace silt, thinly bedded	1.6'		
3					0.0			1.8'		
4					0.0		Extremely moist to wet below 8.0 feet, brown (SILTY-SAND) with 3 to 5% gravel, very fine to fine size sand, little silt, thinly bedded	1.5'		
5					0.0			1.7'		
6					0.0			1.7'		
								Earthprobe Boring Completed at 12.0 feet		

LOGGED BY: Dale M. Gramza / Senior Geologist

PAGE 1 of 1



CRITTENDEN
 (716) 937-6527
 SYRACUSE
 (315) 635-9818

Hole Number: BMW 5

DATE: 9/07/04

ELEVATION: _____

PROJECT: Subsurface Investigation at the Property Located at
275 Franklin Street, Buffalo, New York

PREPARED FOR: Knoer, Crawford & Bender

BORING LOCATION: See Map

SN	0/ 6	6/ 12	12/ 18	18/ 24	N	OVM	LITH	DESCRIPTION AND CLASSIFICATION	REC	COMMENTS	
0						8.0		Asphalt pavement	0.2	1.4'	Asphalt pavement to 0.2 foot over sandy fill with some gravel and bricks to 4.5 feet over water sorted and deposited sand with little silt to end of boring
1						0.0		Moist, grayish brown and brown, gravelly (SILTY-SAND) fill with 20 to 40% gravel, and red brick fragments		1.6'	
2						0.0				1.6'	
3						0.0			4.5	1.6'	
5						0.0		Moist becoming extremely moist below 7.5 feet (SILTY-SAND) with very fine size sand, little silt		1.7'	
4						0.0				1.7'	
5						0.0				1.8'	
10						82.0				1.7'	
									12.0		
								Earthprobe Boring Completed at 12.0 feet			

LOGGED BY: Dale M. Gramza / Senior Geologist

PAGE 1 of 1



CRITTENDEN
 (716) 937-6527
 SYRACUSE
 (315) 635-9818

Hole Number: B 6

DATE: 9/07/04

ELEVATION: _____

PROJECT: Subsurface Investigation at the Property Located at
275 Franklin Street, Buffalo, New York

PREPARED FOR: Knoer, Crawford & Bender

BORING LOCATION: See Map

SN	0/ 6	6/ 12	12/ 18	18/ 24	N	OVM	LITH	DESCRIPTION AND CLASSIFICATION	REC	COMMENTS
1						0.0		Moist, dark brown (SANDY-SILT) fill with little to some very fine size sand,	1.5'	Coarse silty fill to 1.5 feet over water sorted and deposited sand with little silt to end of boring
2						0.0		Moist, brown (SILTY-SAND) with very fine to fine size sand, weakly thinly bedded	1.5'	
3						0.0			2.0'	
4						0.0			2.0'	
5						0.0		Wet, brown (SILTY-SAND) with very fine to fine size sand, little silt, thinly bedded	2.0'	
6						0.0			2.0'	
							12.0	Earthprobe Boring Completed at 12.0 feet		

LOGGED BY: Dale M. Gramza / Senior Geologist PAGE 1 of 1

Volatile Analysis Report for Soils/Solids/Sludges

Client: Nature's Way Environmental

Client Job Site: 275 Franklin St.

Lab Project Number: 04-2622

Lab Sample Number: 8914

Client Job Number: N/A

Field Location: B-3, 10'-12'

Date Sampled: 09/08/2004

Field ID Number: N/A

Date Received: 09/10/2004

Sample Type: Soil

Date Analyzed: 09/14/2004

Halocarbons	Results in ug / Kg	Halocarbons	Results in ug / Kg
Bromodichloromethane	ND< 140	trans-1,2-Dichloroethene	ND< 140
Bromomethane	ND< 140	1,2-Dichloropropane	ND< 140
Bromoform	ND< 140	cis-1,3-Dichloropropene	ND< 140
Carbon Tetrachloride	ND< 140	trans-1,3-Dichloropropene	ND< 140
Chloroethane	ND< 140	Methylene chloride	ND< 349
Chloromethane	ND< 140	1,1,2,2-Tetrachloroethane	ND< 140
2-Chloroethyl vinyl Ether	ND< 140	Tetrachloroethene	12,700
Chloroform	ND< 140	1,1,1-Trichloroethane	ND< 140
Dibromochloromethane	ND< 140	1,1,2-Trichloroethane	ND< 140
1,1-Dichloroethane	ND< 140	Trichloroethene	ND< 140
1,2-Dichloroethane	ND< 140	Trichlorofluoromethane	ND< 140
1,1-Dichloroethene	ND< 140	Vinyl chloride	ND< 140
Chlorobenzene	ND< 140	1,3-Dichlorobenzene	ND< 140
1,2-Dichlorobenzene	ND< 140	1,4-Dichlorobenzene	ND< 140

ELAP Number 10958

Method: EPA 8010

Data File: 24238.D

Comments: ND denotes Non Detect
 ug / Kg = microgram per Kilogram

Signature: _____


 Bruce Hoogesteger, Technical Director

Volatile Analysis Report for Soils/Solids/Sludges

Client: Nature's Way Environmental

Client Job Site: 275 Franklin St.

Lab Project Number: 04-2622

Client Job Number: N/A

Lab Sample Number: 8915

Field Location: B-5, 10'-12'

Date Sampled: 09/08/2004

Field ID Number: N/A

Date Received: 09/10/2004

Sample Type: Soil

Date Analyzed: 09/14/2004

Halocarbons	Results in ug / Kg	Halocarbons	Results in ug / Kg
Bromodichloromethane	ND< 27.0	trans-1,2-Dichloroethene	ND< 27.0
Bromomethane	ND< 27.0	1,2-Dichloropropane	ND< 27.0
Bromoform	ND< 27.0	cis-1,3-Dichloropropene	ND< 27.0
Carbon Tetrachloride	ND< 27.0	trans-1,3-Dichloropropene	ND< 27.0
Chloroethane	ND< 27.0	Methylene chloride	ND< 67.5
Chloromethane	ND< 27.0	1,1,2,2-Tetrachloroethane	ND< 27.0
2-Chloroethyl vinyl Ether	ND< 27.0	Tetrachloroethene	671
Chloroform	ND< 27.0	1,1,1-Trichloroethane	ND< 27.0
Dibromochloromethane	ND< 27.0	1,1,2-Trichloroethane	ND< 27.0
1,1-Dichloroethane	ND< 27.0	Trichloroethene	ND< 27.0
1,2-Dichloroethane	ND< 27.0	Trichlorofluoromethane	ND< 27.0
1,1-Dichloroethene	ND< 27.0	Vinyl chloride	ND< 27.0
Chlorobenzene	ND< 27.0	1,3-Dichlorobenzene	ND< 27.0
1,2-Dichlorobenzene	ND< 27.0	1,4-Dichlorobenzene	ND< 27.0

ELAP Number 10958

Method: EPA 8010

Data File: 24244.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____

Bruce Hoogesteger: Technical Director

This report is part of a multipage document and should only be evaluated in its entirety. Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt.

Volatile Analysis Report for Non-potable Water

Client: Nature's Way Environmental

Client Job Site: 275 Franklin St.

Lab Project Number: 04-2622

Lab Sample Number: 8916

Client Job Number: N/A

Field Location: BMW-5

Date Sampled: 09/08/2004

Field ID Number: N/A

Date Received: 09/10/2004

Sample Type: Water

Date Analyzed: 09/14/2004

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2,000	trans-1,2-Dichloroethene	ND< 2,000
Bromomethane	ND< 2,000	1,2-Dichloropropane	ND< 2,000
Bromoform	ND< 2,000	cis-1,3-Dichloropropene	ND< 2,000
Carbon Tetrachloride	ND< 2,000	trans-1,3-Dichloropropene	ND< 2,000
Chloroethane	ND< 2,000	Methylene chloride	ND< 5,000
Chloromethane	ND< 2,000	1,1,2,2-Tetrachloroethane	ND< 2,000
2-Chloroethyl vinyl Ether	ND< 2,000	Tetrachloroethene	70,400
Chloroform	ND< 2,000	1,1,1-Trichloroethane	ND< 2,000
Dibromochloromethane	ND< 2,000	1,1,2-Trichloroethane	ND< 2,000
1,1-Dichloroethane	ND< 2,000	Trichloroethene	ND< 2,000
1,2-Dichloroethane	ND< 2,000	Trichlorofluoromethane	ND< 2,000
1,1-Dichloroethene	ND< 2,000	Vinyl chloride	ND< 2,000
Chlorobenzene	ND< 2,000	1,3-Dichlorobenzene	ND< 2,000
1,2-Dichlorobenzene	ND< 2,000	1,4-Dichlorobenzene	ND< 2,000

ELAP Number 10958

Method: EPA 8010

Data File: 24246.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature: _____

Bruce Hoogesteger, Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
 Rochester, NY 14608
 (585) 647-2530 • (800) 724-1997
 FAX: (585) 647-3311

CHAIN OF CUSTODY

REPORT TO: INVOICE TO:

COMPANY:	COMPANY:	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS:	ADDRESS:	TURNAROUND TIME: (WORKING DAYS)	
CITY:	CITY:	STATE:	STATE:
PHONE:	PHONE:	FAX:	FAX:
ATTN:	ATTN:	STD	
COMMENTS:	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 5		

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRA B	SAMPLE LOCATION/FIELD ID	MATRIX	CONTAINER NUMBERS	REMARKS	PARADIGM LAB SAMPLE NUMBER
1				10-10		1		
2				10-10		1		
3								
4				10-10		2		
5								
6								
7								
8								
9								
10								

****LAB USE ONLY****

SAMPLE CONDITION: Check box if acceptable or note deviation: TEMPERATURE:

CONTAINER TYPE: HOLDING TIME:

PRESEVATIONS:

Sampled By: _____ Date/Time: _____ Relinquished By: _____ Date/Time: _____ Total Cost: _____
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____ Received @ Lab By: _____ Date/Time: _____ P.I.F. _____

Volatile Analysis Report for Non-potable Water

Client: Nature's Way Environmental

Client Job Site: 275 Franklin St.

Lab Project Number: 04-2623

Lab Sample Number: 8917

Client Job Number: N/A

Field Location: BMW-3

Date Sampled: 09/09/2004

Field ID Number: N/A

Date Received: 09/10/2004

Sample Type: Water

Date Analyzed: 09/14/2004

Halocarbons	Results in ug / L	Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2,000	trans-1,2-Dichloroethene	ND< 2,000
Bromomethane	ND< 2,000	1,2-Dichloropropane	ND< 2,000
Bromoform	ND< 2,000	cis-1,3-Dichloropropene	ND< 2,000
Carbon Tetrachloride	ND< 2,000	trans-1,3-Dichloropropene	ND< 2,000
Chloroethane	ND< 2,000	Methylene chloride	ND< 5,000
Chloromethane	ND< 2,000	1,1,2,2-Tetrachloroethane	ND< 2,000
2-Chloroethyl vinyl Ether	ND< 2,000	Tetrachloroethene	137,000
Chloroform	ND< 2,000	1,1,1-Trichloroethane	ND< 2,000
Dibromochloromethane	ND< 2,000	1,1,2-Trichloroethane	ND< 2,000
1,1-Dichloroethane	ND< 2,000	Trichloroethene	ND< 2,000
1,2-Dichloroethane	ND< 2,000	Trichlorofluoromethane	ND< 2,000
1,1-Dichloroethene	ND< 2,000	Vinyl chloride	ND< 2,000
Chlorobenzene	ND< 2,000	1,3-Dichlorobenzene	ND< 2,000
1,2-Dichlorobenzene	ND< 2,000	1,4-Dichlorobenzene	ND< 2,000

ELAP Number 10958

Method: EPA 8010

Data File: 24247.D

Comments: ND denotes Non Detect
 ug / L = microgram per Liter

Signature: _____

Bruce Hoogesteger, Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

178 Lake Avenue
 Rochester, NY 14608
 (585) 547-2530 (800) 724-1997
 FAX: (585) 547-3311

CHAIN OF CUSTODY

REPORT ID: **NY1010**

COMPANY: **NWE CFC** COMPANY PROJECT #: **04-2623**

ADDRESS: **3553 Crittenden Rd.** CLIENT PROJECT #:

CITY: **Crittenden, NY 14038** STATE: ZIP: REMARKS: **Rush - ASAP**

PHONE: **(716) 937-6527** FAX: **937-9360** STD: 1 2 3 5 OTHER

ATTN: **R. Savage/G. Weber** COMMENTS: **Please fax report**

PROJECT NAME/SITE NAME: **275 Franklin St.**

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	CONTAINER NUMBERS	REMARKS	PARADIGM LAB SAMPLE NUMBER
19/9/04			X	BMU-3	Aggs. 2	X EPA 8010		8917
2								
3								
4								
5								
6								
7								
8								
9								
10								

****LAB USE ONLY****

SAMPLE CONDITION: Check box if acceptable or note deviation: TEMPERATURE: **12**

CONTAINER TYPE: PRESERVATION: HOLDING TIME: DATE/TIME: TOTAL COST:

RELINQUISHED BY: **James Davey** DATE/TIME: RECEIVED BY: DATE/TIME:

RECEIVED BY: *[Signature]* DATE/TIME: **9/9/04 4:30 PM**

RECEIVED @ Lab By: **Kelly Chaddell** DATE/TIME: **9/10/04 9:46**

P.I.F.:



F R A N K L I N S T R E E T

B-3 RE 12.7 (10-12')

110'

BUILDING WALL

275 FRANKLIN STREET

WALL

53.5'
GW PCE 137 PPM

● BMW-3

● B-4

● B-1

● BMW-5

● B-6

SULC PCE 0.67 (10-12')

GW PCE 70.4 PPM

● BORING LOCATION

● BORING LOCATION WITH INSTALLED PIEZOMETER



NORTH

NATURE'S WAY ENVIRONMENTAL CONSULTANTS & CONTRACTORS, INC.

BORING LOCATION MAP
275 FRANKLIN STREET
BUFFALO, NY
1" = 10'

ATTACHMENT 05b

**PRELIMINARY SITE INVESTIGATION (MARCH 2006)*
&
ADDENDUM TO PRELIMINARY SITE INVESTIGATION (JUNE 2006)**

* Relative to the Preliminary Site Investigation report, it should be noted that certain addresses were incorrectly identified. Therefore, any reference to 277 Franklin Street in that report should correctly be identified as 279 Franklin Street and any reference to 275 Franklin Street in that report should correctly be identified as 275/277 Franklin Street.

March 10, 2006

Robert E. Knoer, Esq.
Knoer, Crawford, and Bender, LLP
14 Lafayette Square
Suite 1700
Buffalo, N.Y. 14203

Re: Preliminary Site Investigation
275 & 277 Franklin Street and 470 Pearl Street parcels

Dear Mr. Knoer:

We have prepared this letter report summarizing the results of the Preliminary Site Investigation at 277 Franklin Street and 470 Pearl Street parcels in accordance with the Preliminary Investigation Work Plan (December 2005). The work was performed to ascertain if subsurface environmental conditions on these parcels were likely to impact redevelopment and thereby provide the New York State Department of Environmental Conservation (NYSDEC) a basis to determine eligibility for participation in the NYSDEC Brownfield Cleanup Program (BCP). A summary of findings is presented below. In addition, a summary of the data obtained from the Limited Environmental Investigation previously performed by Nature's Way on the 275 Franklin Street parcel (September 2004) is also included for completeness.

Soil Boring Sampling Results

The boring program, conducted on January 18, 2006, consisted of advancing direct-push (Geoprobe[®]) boreholes as shown in Figure 1. All direct-push boreholes were advanced using 1.5-inch diameter macro-samplers. The 4-foot sample cores were retrieved from the boring locations in clear PVC sleeves to allow for field characterization of the subsurface lithology and collection of soil samples.

Soil/fill samples were retrieved from each boring and field screened for headspace VOC content utilizing a hand-held photoionization detector (PID). The PID is capable of detecting the presence of certain volatile organic contaminants. PID scans of the soil borings resulted in no readings above background concentrations.

Direct grab soil samples were collected from the upper fill zone of each boring (see Figure 1 for approximate sample location). Each grab sample was analyzed for Target Compound List (TCL) semi-volatile organic compounds-base neutral fraction (SVOCs) via USEPA Method 8270, TCL polychlorinated biphenyls (PCBs) via

USEPA Method 8082, chromium, arsenic, mercury, and lead via USEPA Method 6010 (7471 for Mercury).

The soil analytical results are summarized in Tables 1 through 3. Each compound that was analyzed is listed on the table, with its associated result, to provide a complete data summary. Recommended Soil Cleanup Objectives as published in NYSDEC Technical Assistance and Guidance Memorandum (TAGM) HWR-94-4046 are also presented for comparative purposes.

As indicated on Table 1, the soil borings indicate concentrations of various semi-volatile organic compounds in the composite soil sample. In particular, several polynuclear aromatic hydrocarbons (PAHs) were detected above the NYSDEC Recommended Soil Cleanup Objectives (RSCOs). No PCBs were found above laboratory detection level (see Table 2).

Inorganic metals concentrations (see Table 3) exceeded RSCO for mercury and lead in one or more soil samples at each of the parcels.

Soil Vapor Sampling Results

The soil vapor sampling program, conducted on January 20, 2006, consisted of collecting and analyzing three samples from beneath asphalt paving (see Figure 1 for approximately locations) in the vicinity of the former dry cleaning operation. Summa Canisters fitted with an 8-hour regulator were utilized.

Soil vapor samples were analyzed for Target Compound List volatile organic compounds (VOCs) in accordance with USEPA Method TO-15. The purpose of this sampling effort was to determine if subsurface VOCs from impacted soil or groundwater was present in sufficient concentration to likely require mitigation in the context of planned redevelopment. Results are presented in Table 4

The New York State Department of Health has published a draft document entitled "Guidance for Evaluating Soil Vapor Intrusion in the State of New York." This document is presently guiding NYSDOH and NYSDEC decisions concerning the need for subslab vapor mitigation at sites undergoing investigation, cleanup and monitoring under NY State remedial programs (e.g., Brownfield Cleanup Program sites, Inactive Hazardous Waste Site Remediation Program sites, etc.). The guidance presents two soil vapor/indoor air matrices to assist in interpreting subslab and ambient air data (i.e., Matrix 1 and Matrix 2). To date, three chemicals have been assigned to these two matrices: trichloroethene (TCE) is assigned to Matrix 1, while tetrachloroethene (also known as perchloroethene, or PCE) and 1,1,1-trichloroethane (1,1,1-TCA) are assigned to Matrix 2.

As indicated in Table 4, a comparison of TCE levels with Matrix 1 indicate no further action is recommended for the 470 Pearl Street parcel, however, sample results of 70 ug/m³ for the 277 Franklin St. parcel indicates that mitigation/monitoring is recommended as per NYSDOH guidance.

Comparison of the soil vapor data for PCE to the Matrix 2 values indicates that mitigation is recommended for the 277 Franklin St. parcel with a value of 14,000 ug/m³. When comparing 1,1,1-TCA, mitigation/monitoring is recommended for the 277 Franklin St. parcel, with a value of 71 ug/m³.

275 Franklin Street Parcel Soil and Groundwater Sampling Results

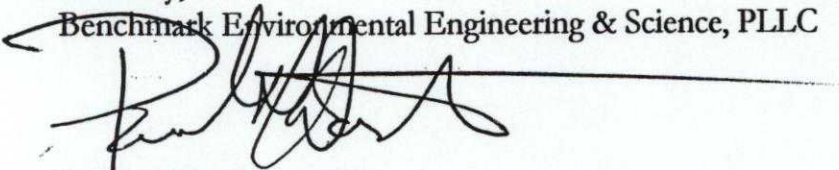
Nature's Way performed a limited Phase II environmental assessment on the 275 Franklin Street parcel in September of 2004. The sampling included both sub-surface soil sampling and groundwater sampling and analysis by EPA Method 8010. Volatile organic compounds were found in both soil samples and both groundwater samples (see Table 5). Tetrachloroethene (PCE) was detected above the NYSDEC Recommended Soil Cleanup Objectives (RSCOs) in one of the soil samples, and exceeded NYSDEC Groundwater Quality Standards in both locations.

Conclusion

Soil sampling results at all three parcels exhibited semi-volatile and inorganic contamination in excess of the NYSDEC recommended soil cleanup objectives at one or more shallow subsurface locations. Soil vapor sampling results at 277 Franklin Street indicate the presence of one or more chlorinated solvents at concentrations that would require mitigation or monitoring in accordance with NYSDOH guidance.

As such, environmental conditions at all three subject parcels are likely to impact redevelopment activity and therefore should be deemed eligible for participation in the NYSDEC Brownfields Cleanup Program.

Sincerely,
Benchmark Environmental Engineering & Science, PLLC



Paul H. Werthman, P.E.
Principal Engineer

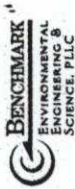


TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS - SVOCs
 470 Pearl Street, LLC
 BUFFALO, NEW YORK

Parameter	277 Franklin St.		470 Pearl Street					Rec. Soil Cleanup Objective ⁽¹⁾ (mg/kg)
	SB-1	SB-2	SB-1	SB-2	SB-3	SB-4	SB-5	
<i>TCL Semi-Volatile Organic Compounds (SVOCs) -mg/kg</i>								
Acenaphthene	<7.8	<7.1	3.2 J	1.5 J	<4.1	0.30 J	0.095 J	50
Acenaphthylene	<7.8	<7.1	1.6 J	<7.9	0.73 J	0.14 J	0.019 J	41
Anthracene	<7.8	<7.1	8.8	3.2 J	0.62 J	0.62 J	0.16 J	50
Benzo(a)anthracene	<7.8	0.44 J	22	6.5 J	2.8 J	1.5 J	0.73	0.224
Benzo(b)fluoranthene	<7.8	0.57 J	26	7.6 J	5.1	1.9	1.3	1.1
Benzo(k)fluoranthene	<7.8	<7.1	9.1	2.1 J	1.6 J	0.71 J	0.44	1.1
Benzo(ghi)perylene	<7.8	0.47 J	8.0 J	2.4 J	2.5 J	0.65 J	0.5	50
Benzo(a)pyrene	<7.8	<7.1	20	5.7 J	3.7 J	1.4 J	0.9	0.061
Benzyl alcohol	<7.8	<7.1	<8.6	<7.9	<4.1	<1.6	<0.36	-
Bis (2-chloroethoxy) methane	<7.8	<7.1	<8.6	<7.9	<4.1	<1.6	<0.36	-
Bis (2-chloroethyl) ether	<7.8	<7.1	<8.6	<7.9	<4.1	<1.6	<0.36	-
2,2'-Oxybis (1-Chloropropane	<7.8	<7.1	<8.6	<7.9	<4.1	<1.6	<0.36	-
Bis (2-ethylhexyl) phthalate	<7.8	<7.1	<8.6	<7.9	<4.1	0.098 J	0.063 J	50
4-Bromophenyl phenyl ether	<7.8	<7.1	<8.6	<7.9	<4.1	<1.6	<0.36	-
Butyl benzyl phthalate	<7.8	<7.1	<8.6	<7.9	<4.1	<1.6	<0.36	50
4-Chloroaniline	<7.8	<7.1	<8.6	<7.9	<4.1	<1.6	<0.36	0.22
2-Chloronaphthalene	<7.8	<7.1	<8.6	<7.9	<4.1	<1.6	<0.36	0.24
4-Chlorophenyl phenyl ether	<7.8	<7.1	<8.6	<7.9	<4.1	<1.6	<0.36	-
Chrysene	<7.8	<7.1	20	6.6 J	3.2 J	1.4 J	0.9	0.4
Dibenzo (a,h) anthracene	<7.8	<7.1	2.4 J	0.74 J	0.54 J	0.18 J	0.13 J	0.014
Dibenzofuran	<7.8	<7.1	1.8 J	1.0 J	<4.1	0.23 J	0.088 J	6.2
Di-n-butyl phthalate	<7.8	<7.1	<8.6	<7.9	<4.1	<1.6	<0.36	8.1
1,2-Dichlorobenzene	<7.8	<7.1	<8.6	<7.9	<4.1	<1.6	<0.36	-
1,3-Dichlorobenzene	<7.8	<7.1	<8.6	<7.9	<4.1	<1.6	<0.36	-
1,4-Dichlorobenzene	<7.8	<7.1	<8.6	<7.9	<4.1	<1.6	<0.36	-
3,3'-Dichlorobenzidine	<7.8	<7.1	<8.6	<7.9	<4.1	<1.6	<0.36	-
Diethyl phthalate	<7.8	<7.1	<8.6	<7.9	<4.1	<1.6	<0.36	7.1
Dimethyl phthalate	<7.8	<7.1	<8.6	<7.9	<4.1	<1.6	<0.36	2
2,4-Dinitrotoluene	<7.8	<7.1	<8.6	<7.9	<4.1	<1.6	<0.36	-



TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS - SVOCs
470 Pearl Street, LLC
BUFFALO, NEW YORK

Parameter	277 Franklin St.		470 Pearl Street					Rec. Soil Cleanup Objective ⁽¹⁾ (mg/kg)
	SB-1	SB-2	SB-1	SB-2	SB-3	SB-4	SB-5	
TCL Semi-Volatile Organic Compounds (SVOCs) -mg/kg								
2,6-Dinitrotoluene	<7.8	<7.1	<8.6	<7.9	<4.1	<1.6	<0.36	1
Di-n-octyl phthalate	<7.8	<7.1	<8.6	<7.9	<4.1	<1.6	<0.36	50
Fluoranthene	0.63 J	0.55 J	49	14	5.9	3.4	2.0	50
Fluorene	<7.8	<7.1	3.4 J	1.5 J	<4.1	0.25 J	0.08 J	50
Hexachlorobenzene	<7.8	<7.1	<8.6	<7.9	<4.1	<1.6	<0.36	0.41
Hexachlorobutadiene	<7.8	<7.1	<8.6	<7.9	<4.1	<1.6	<0.36	-
Hexachlorocyclopentadiene	<7.8	<7.1	<8.6	<7.9	<4.1	<1.6	<0.36	-
Hexachloroethane	<7.8	<7.1	<8.6	<7.9	<4.1	<1.6	<0.36	-
Indeno (1,2,3-cd) pyrene	<7.8	<7.1	7.4 J	2.0 J	2.1 J	0.57 J	0.44	3.2
Isophorone	<7.8	<7.1	<8.6	<7.9	<4.1	<1.6	<0.36	4.4
2-Methylnaphthalene	<7.8	<7.1	0.89 J	0.72 J	<4.1	0.15 J	0.097 J	36
Naphthalene	<7.8	<7.1	1.1 J	1.1 J	<4.1	0.19 J	0.067 J	13
2-Nitroaniline	<7.8	<34	<42	<38	<20	<7.7	<1.8	0.43
3-Nitroaniline	<7.8	<34	<42	<38	<20	<7.7	<1.8	0.5
4-Nitroaniline	<38	<34	<42	<38	<20	<7.7	<1.8	-
Nitrobenzene	<7.8	<7.1	<8.6	<7.9	<4.1	<1.6	<0.36	0.2
N-Nitrosodiphenylamine	<7.8	<7.1	<8.6	<7.9	<4.1	<1.6	<0.36	-
N-Nitroso-Di-n-propylamine	<7.8	<7.1	<8.6	<7.9	<4.1	<1.6	<0.36	-
Phenanthrene	<7.8	<7.1	35	14	2.8 J	2.8	1.2	50
Pyrene	0.53 J	0.58 J	38	12	5.3	2.5	1.8	50
1,2,4-Trichlorobenzene	<7.8	<7.1	<8.6	<7.9	<4.1	<1.6	<0.36	-

Notes:

1. NYSDEC Technical and Administrative Guidance Memorandum (TAGM #4046), issued January 1994.
2. Highlighted values indicate exceedances of the NYSDEC Recommended Soil Cleanup Objectives.
3. J = estimated concentration.
4. Analytical results were reported in ug/kg and converted to mg/kg for comparison to TAGM Values.

TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS
PCBs
470 Pearl Street, LLC
BUFFALO, NEW YORK

Location	277 Franklin St.					470 Pearl Street					Rec. Soil Cleanup Objective ⁽¹⁾ (mg/kg)
	SB-1	SB-2	SB-1	SB-2	SB-1	SB-2	SB-3	SB-4	SB-5		
PCB's (mg/kg)											
Aroclor 1016	<0.02	<0.018	<0.022	<0.02	<0.021	<0.02	<0.02	<0.018	<0.018	<0.018	note 2
Aroclor 1221	<0.02	<0.018	<0.022	<0.02	<0.021	<0.02	<0.02	<0.018	<0.018	<0.018	note 2
Aroclor 1232	<0.02	<0.018	<0.022	<0.02	<0.021	<0.02	<0.02	<0.018	<0.018	<0.018	note 2
Aroclor 1242	<0.02	<0.018	<0.022	<0.02	<0.021	<0.02	<0.02	<0.018	<0.018	<0.018	note 2
Aroclor 1248	<0.02	<0.018	<0.022	<0.02	<0.021	<0.02	<0.02	<0.018	<0.018	<0.018	note 2
Aroclor 1254	<0.02	<0.018	<0.022	<0.02	<0.021	<0.02	<0.02	<0.018	<0.018	<0.018	note 2
Aroclor 1260	<0.02	<0.018	<0.022	<0.02	<0.021	<0.02	<0.02	<0.018	<0.018	<0.018	note 2

Notes:

1. NYSDEC Technical and Administrative Guidance Memorandum (TAGM #4046), issued January 1994.
2. Total PCB Cleanup Objective = 1 mg/kg surface, 10 mg/kg subsurface.
3. Analytical results were reported in ug/kg and converted to mg/kg for comparison to soil cleanup objective values.



TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS
INORGANICS
470 Pearl Street, LLC
BUFFALO, NEW YORK

Parameter	277 Franklin St.		470 Pearl Street					Rec. Soil Cleanup Objective ⁽¹⁾ (mg/kg)
	SB-1	SB-2	SB-1	SB-2	SB-3	SB-4	SB-5	
<i>Inorganics (mg/kg)</i>								
Arsenic	3.5	5.1	10.3	10.1	4.3	4.8	3.8	12
Mercury	0.18	0.33	0.93	0.16	0.12	0.81	0.41	0.2
Chromium	6.3	11.1	12.7	6.4	9.0	6.0	5.5	40
Lead	87.8	358	938	313	115	663	262	500 ⁽³⁾

Notes:

1. NYSDEC Technical and Administrative Guidance Memorandum (TAGM #4046), issued January 1994.
2. Highlighted values indicate exceedances of the NYSDEC Recommended Soil Cleanup Objectives.
3. Urban typical range 200-500 mg/kg.



TABLE 4
SUMMARY OF SOIL VAPOR ANALYTICAL RESULTS

470 Pearl Street, LLC
BUFFALO, NEW YORK

Location	277 Franklin St.	470 Pearl Street
Parameter	Air	Air -1 Air -2
<i>Soil Vapor Concentration (ug/m³)</i>		
Trichloroethene (TCE)	70	1.1 1.1
Tetrachloroethene (PCE)	14000	2.4 1.4
1,1,1-trichloroethane (1,1,1-TCA)	71	1.1 1.1

Notes:



- Highlight indicates Monitoring or Mitigation required under the Recommended Action Level as per NYSDOH Indoor Air Matrix 1 and 2 Guidances

- Highlight indicates Mitigation required under the Recommended Action Level as per NYSDOH Indoor Air Matrix 1 and 2 Guidances



TABLE 5

SUMMARY OF SOIL AND GROUNDWATER ANALYTICAL RESULTS

September 2004 Investigation

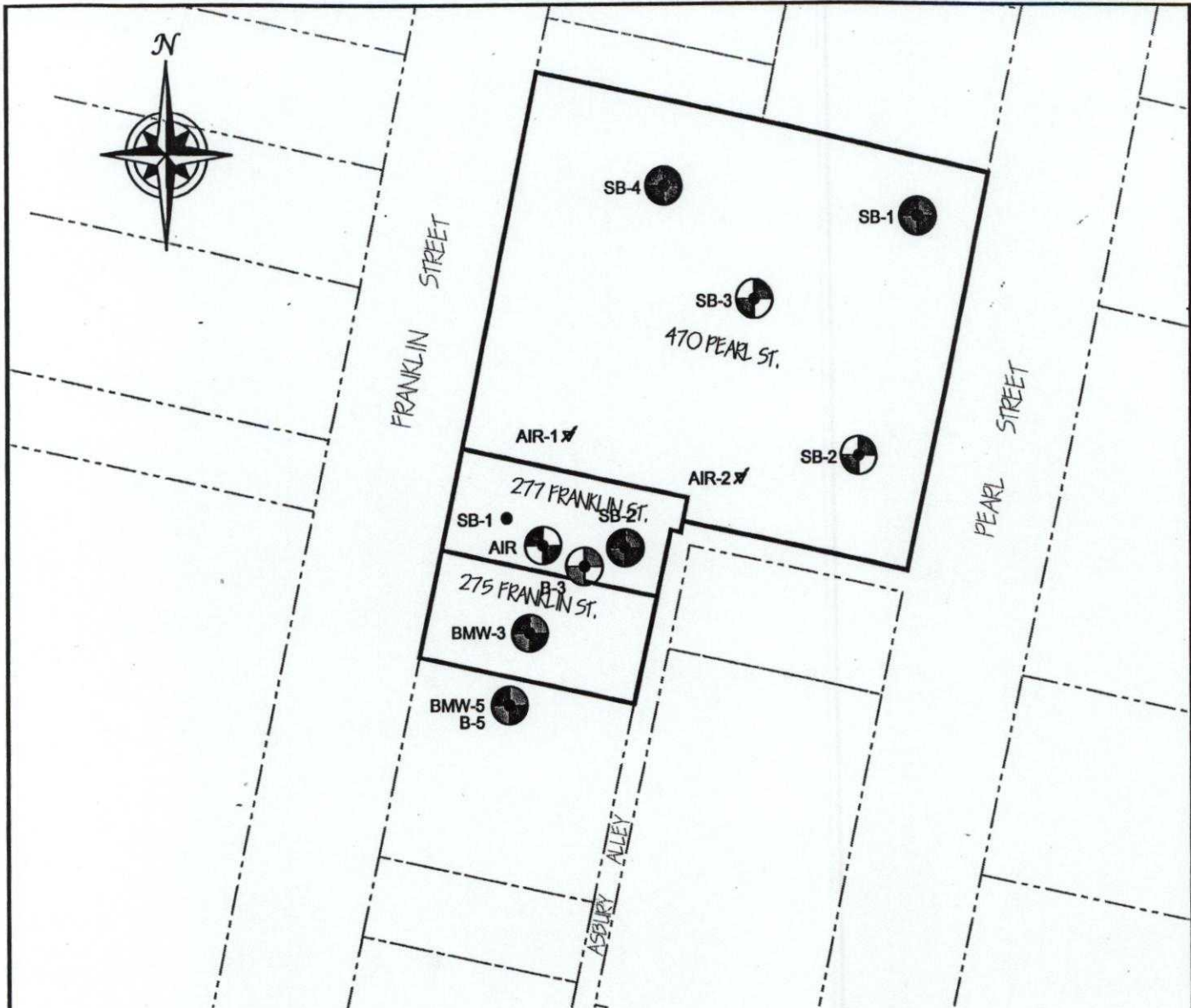
470 Pearl Street, LLC
BUFFALO, NEW YORK

Location		275 Franklin Street	
Media	Soil (ug/Kg)	Groundwater (ug/L)	
Parameter	B-3	BMW-3	BMW-5
Concentration			
Tetrachloroethene (PCE)	12,700	671	137,000
			70,400

Notes:

- Highlight indicated soil exceedance of NYSDEC Technical and Administrative Guidance Memorandum (TAGM #4046), issued January 1994.
- Highlight indicated groundwater exceedance of NYSDEC Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (TOGS 1.1.1) Class GA used for comparison

FIGURE 1

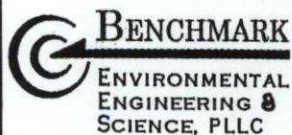


LEGEND:

- PROPERTY BOUNDARY
- SB-1 ● GEOPROBE SOIL BORING LOCATION
- AIR-1 ✕ SUBSLAB VAPOR SAMPLE LOCATION
- SB-4 ● EXCEEDS RSCO FOR SVOCs AND INORGANICS
- SB-4 ◐ EXCEEDS RSCO FOR SVOCs
- AIR ◐ SUBSLAB VAPOR MITIGATION/MONITORING REQD.
- B-3 ◐ EXCEEDS RSCO FOR VOCs
- BMW-3 ● EXCEEDS GROUNDWATER STD. FOR VOCs



SCALE: 1 INCH = 80 FEET
SCALE IN FEET
(approximate)



726 EXCHANGE STREET
SUITE 024
BUFFALO, NEW YORK 14210
(716) 856-0599

OFFSITE SAMPLE LOCATIONS

470 PEARL STREET, LLC SITE
BUFFALO, NEW YORK

PREPARED FOR
470 PEARL STREET, LLC

PROJECT NO.: 2099-002-100

DATE: DECEMBER 2005

DRAFTED BY: BCH

June 26, 2006

Robert E. Knoer, Esq.
Knoer, Crawford and Bender, LLP
14 Lafayette Square
Suite 1700
Buffalo, N.Y. 14203

Re: Addendum to March 2006 Preliminary Site Investigation
432 Pearl Street, Buffalo, New York Property

Dear Mr. Knoer:

We have prepared this Addendum to the March 2006 Preliminary Site Investigation to include the investigative results for the property located at 432 Pearl Street, Buffalo, New York. The investigation of this property was conducted concurrently with the investigation of the 275/277 & 279 Franklin Street properties in accordance with the Preliminary Investigation Work Plan (December 2005). The work was performed to ascertain if subsurface environmental conditions on these parcels were likely to impact redevelopment and thereby provide the New York State Department of Environmental Conservation (NYSDEC) a basis to determine eligibility for participation in the NYSDEC Brownfield Cleanup Program (BCP). A summary of the findings for the 432 Pearl Street property is presented below.

Soil Boring Sampling Results

The boring program, conducted on January 18, 2006, consisted of advancing three direct-push (Geoprobe[®]) boreholes as shown in Figure A-1. All direct-push boreholes were advanced using 1.5-inch diameter macro-samplers. The 4-foot sample cores were retrieved from the boring locations in clear PVC sleeves to allow for field characterization of the subsurface lithology and collection of soil samples.

Soil/fill samples were retrieved from each boring and field screened for headspace VOC content using a hand-held photoionization detector (PID). The PID is capable of detecting the presence of certain volatile organic contaminants. PID scans of the soil borings resulted in no readings above background concentrations.

Direct grab soil samples were collected from the upper fill zone of each boring (see Figure A-1 for approximate sample location). Each grab sample was analyzed for Target Compound List (TCL) semi-volatile organic compounds (SVOCs) – base neutral fraction via USEPA Method 8270, TCL polychlorinated biphenyls (PCBs) via

USEPA Method 8082, chromium, arsenic, mercury, and lead via USEPA Method 6010 (7471 for mercury).

The soil analytical results are summarized in Table A-1. Each compound that was analyzed is listed on the table, with its associated result, to provide a complete data summary. Recommended Soil Cleanup Objectives (RSCOs) as published in NYSDEC Technical Assistance and Guidance Memorandum (TAGM) HWR-94-4046 are also presented for comparative purposes.

As indicated on Table A-1, the soil borings indicate concentrations of various SVOCs in the composite soil sample. In particular, several polynuclear aromatic hydrocarbons (PAHs) were detected above the NYSDEC RSCOs. No PCBs were found above laboratory detection level. Inorganic metals concentrations exceeded RSCO for mercury and lead in the sample collected from soil boring SB-2.

Soil Vapor Sampling Results

The soil vapor sampling program, conducted on January 20, 2006, consisted of collecting and analyzing one sample from beneath asphalt pavement (refer to Figure A-1 for approximately location). A Summa Canister fitted with an 8-hour regulator was used for sample collection.

The soil vapor sample was analyzed for TCL volatile organic compounds (VOCs) in accordance with USEPA Method TO-15. The purpose of this sampling effort was to determine if subsurface VOCs from impacted soil or groundwater was present in sufficient concentration to likely require mitigation in the context of planned redevelopment.

The New York State Department of Health has published a draft document entitled, "Guidance for Evaluating Soil Vapor Intrusion in the State of New York." This document is presently guiding NYSDOH and NYSDEC decisions concerning the need for slab vapor mitigation at sites undergoing investigation, cleanup and monitoring under NY State remedial programs (e.g., Brownfield Cleanup Program, Inactive Hazardous Waste Site Remediation Program, etc.). The guidance presents two soil vapor/indoor air matrices to assist in interpreting slab and ambient air data (i.e., Matrix 1 and Matrix 2). To date, three chemicals have been assigned to these two matrices: trichloroethene (TCE) is assigned to Matrix 1, while tetrachloroethene (also known as perchloroethene, or PCE) and 1,1,1-trichloroethane (1,1,1-TCA) are assigned to Matrix 2.

Of the three chemicals of concern, only PCE was detected at a concentration of 140 $\mu\text{g}/\text{m}^3$. Comparison of the soil vapor data for PCE to the Matrix 2 value (100

Robert E. Knoer, Esq.
Knoer, Crawford and Bender, LLP

June 26, 2006
Page 3

$\mu\text{g}/\text{m}^3$) indicates that mitigation/monitoring for this compound is recommended for the 432 Pearl Street property .

Conclusion

Soil sampling results exhibit SVOC and inorganic contamination in excess of the NYSDEC RSCOs at one or more shallow subsurface locations. Soil vapor sampling results indicate the presence of PCE at a concentration that would require mitigation/monitoring in accordance with NYSDOH guidance.

As such, environmental conditions at the 432 Pearl Street parcel is likely to impact future redevelopment activities and therefore, the parcel should be eligible for participation in the NYSDEC Brownfields Cleanup Program.

Sincerely,
Benchmark Environmental Engineering & Science, PLLC



Patrick T. Martin, P.E.
Project Manager

c: File: 0099-003-100

**TABLE A-1
SUMMARY OF SOIL ANALYTICAL RESULTS
432 PEARL STREET PROPERTY**

**BUFFALO DEVELOPMENT CORP.
BUFFALO, NEW YORK**

Parameter	SB-1	SB-2	SB-3	Rec. Soil Cleanup Objective ⁽¹⁾ (mg/kg)
<i>TCL Semi-Volatile Organic Compounds (mg/kg)</i>				
Acenaphthene	<75	1.4 J	<3.9	50
Acenaphthylene	<75	0.48 J	<3.9	41
Anthracene	<75	2.7 J	0.34 J	50
Benzo(a)anthracene	7.2 J	7.7 J	0.80 J	0.224
Benzo(b)fluoranthene	10.0 J	12.0	0.93 J	1.1
Benzo(k)fluoranthene	4.4 J	2.6 J	0.35 J	1.1
Benzo(ghi)perylene	4.7 J	4.2 J	0.38 J	50
Benzo(a)pyrene	7.2 J	8.3	0.74 J	0.061
Benzyl alcohol	<75	<8.2	<3.9	-
Bis (2-chloroethoxy) methane	<75	<8.2	<3.9	-
Bis (2-chloroethyl) ether	<75	<8.2	<3.9	-
2,2'-Oxybis (1-Chloropropane)	<75	<8.2	<3.9	-
Bis (2-ethylhexyl) phthalate	<75	<8.2	<3.9	50
4-Bromophenyl phenyl ether	<75	<8.2	<3.9	-
Butyl benzyl phthalate	<75	<8.2	<3.9	50
4-Chloroaniline	<75	<8.2	<3.9	0.22
2-Chloronaphthalene	<75	<8.2	<3.9	0.24
4-Chlorophenyl phenyl ether	<75	<8.2	<3.9	-
Chrysene	7.8 J	8.4	0.71 J	0.4
Dibenzo (a,h) anthracene	<75	1.3 J	<3.9	0.014
Dibenzofuran	<75	1.1 J	<3.9	6.2
Di-n-butyl phthalate	<75	<8.2	<3.9	8.1
1,2-Dichlorobenzene	<75	<8.2	<3.9	-
1,3-Dichlorobenzene	<75	<8.2	<3.9	-
1,4-Dichlorobenzene	<75	<8.2	<3.9	-
3,3'-Dichlorobenzidine	<75	<8.2	<3.9	-
Diethyl phthalate	<75	<8.2	<3.9	7.1
Dimethyl phthalate	<75	<8.2	<3.9	2
2,4-Dinitrotoluene	<75	<8.2	<3.9	-
2,6-Dinitrotoluene	<75	<8.2	<3.9	1
Di-n-octyl phthalate	<75	<8.2	<3.9	50
Fluoranthene	18.0 J	20.0	1.9 J	50
Fluorene	<75	1.3 J	<3.9	50
Hexachlorobenzene	<75	<8.2	<3.9	0.41
Hexachlorobutadiene	<75	<8.2	<3.9	-
Hexachlorocyclopentadiene	<75	<8.2	<3.9	-
Hexachloroethane	<75	<8.2	<3.9	-
Indeno (1,2,3-cd) pyrene	4.3 J	3.8 J	0.36 J	3.2
Isophorone	<75	<8.2	<3.9	4.4



**TABLE A-1
SUMMARY OF SOIL ANALYTICAL RESULTS
432 PEARL STREET PROPERTY**

**BUFFALO DEVELOPMENT CORP.
BUFFALO, NEW YORK**

Parameter	SB-1	SB-2	SB-3	Rec. Soil Cleanup Objective ⁽¹⁾ (mg/kg)
<i>TCL Semi-Volatile Organic Compounds (mg/kg)</i>				
2-Methylnaphthalene	<75	0.66 J	<3.9	36
Naphthalene	<75	1.3 J	<3.9	13
2-Nitroaniline	<360	<40	<19	0.43
3-Nitroaniline	<360	<40	<19	0.5
4-Nitroaniline	<360	<40	<19	-
Nitrobenzene	<75	<8.2	<3.9	0.2
N-Nitrosodiphenylamine	<75	<8.2	<3.9	-
N-Nitroso-Di-n-propylamine	<75	<8.2	<3.9	-
Phenanthrene	12.0 J	17.0	1.5 J	50
Pyrene	17.0 J	21.0	1.7 J	50
1,2,4-Trichlorobenzene	<75	<8.2	<3.9	-
<i>PCBs (mg/kg)</i>				
Aroclor 1016	<0.018	<0.021	<0.020	note 2
Aroclor 1221	<0.018	<0.021	<0.020	note 2
Aroclor 1232	<0.018	<0.021	<0.020	note 2
Aroclor 1242	<0.018	<0.021	<0.020	note 2
Aroclor 1248	<0.018	<0.021	<0.020	note 2
Aroclor 1254	<0.018	<0.021	<0.020	note 2
Aroclor 1260	<0.018	<0.021	<0.020	note 2
<i>Inorganic Compounds (mg/kg)</i>				
Arsenic	5.3	9.0	4.3	12
Mercury	0.089	1.1	0.11	0.2
Chromium	6.6	11.4	8.2	40
Lead	103	507	78.1	500 ⁽³⁾

Notes:

1. NYSDEC Technical and Administrative Guidance Memorandum (TAGM #4046), issued January 1994.
2. Total PCB Cleanup Objective = 1 mg/kg surface, 10 mg/kg subsurface.
3. Urban typical range 200-500 mg/kg.

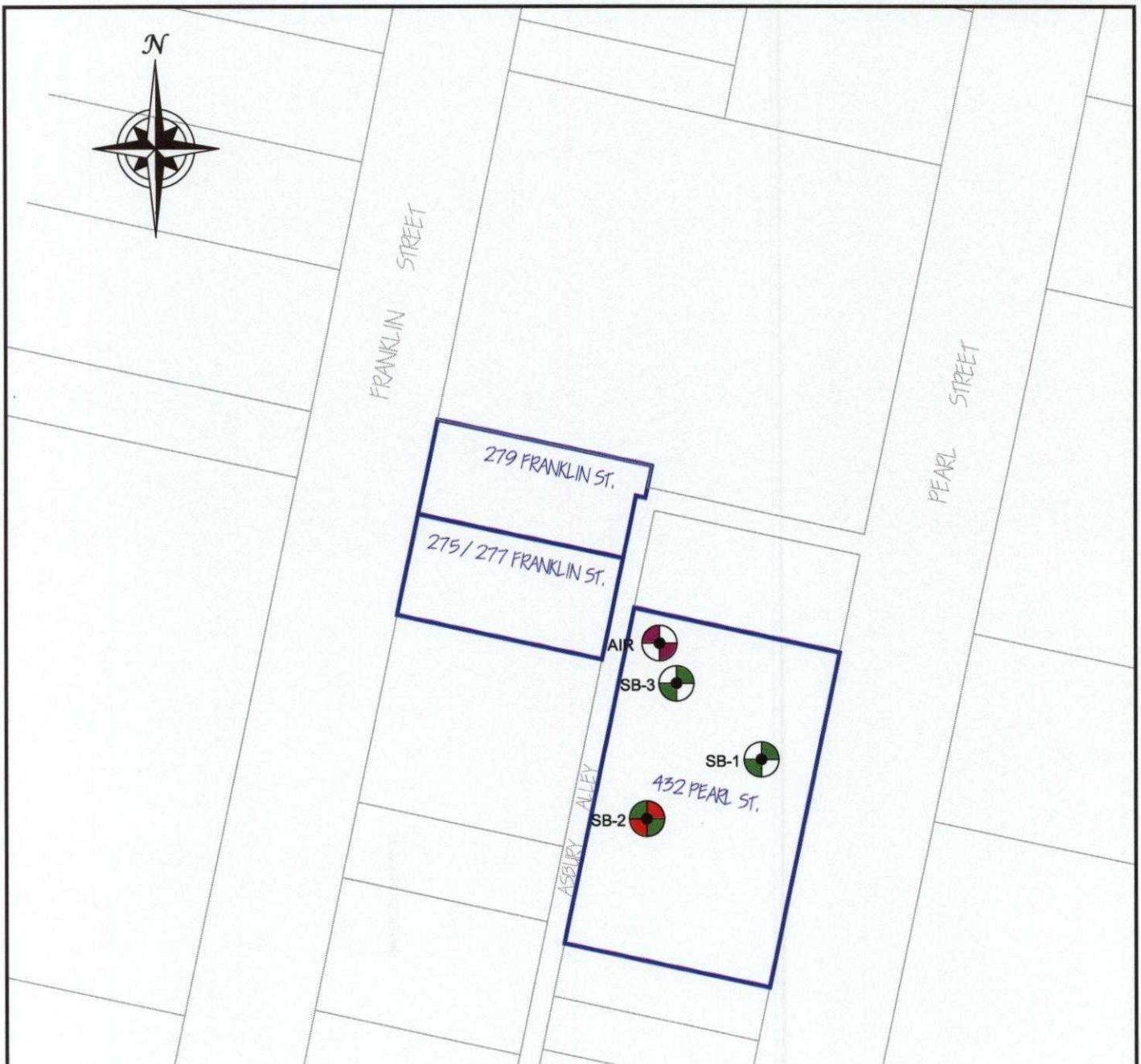
Highlighted values indicate exceedances of the NYSDEC Recommended Soil Cleanup Objectives.

J = estimated concentration.









Analytical results were reported in ug/kg and converted to mg/kg for comparison to TAGM Values.

FIGURE A-1

G:\CAD\Benchmark\70 Pearl Street, LLC (Buffalo Development Corp)\BCP Attachment Figures\Figure A-1; Sample Locations.dwg



LEGEND:

-  PROPERTY BOUNDARY
-  SB-1 ● GEOPROBE SOIL BORING LOCATION
-  SB-4  EXCEEDS RSCO FOR SVOCs AND INORGANICS
-  SB-3  EXCEEDS RSCO FOR SVOCs
-  AIR  SUBSLAB VAPOR MITIGATION/MONITORING REQD.



SCALE: 1 INCH = 80 FEET
SCALE IN FEET
(approximate)



726 EXCHANGE STREET
SUITE 824
BUFFALO, NEW YORK 14210
(716) 856-0599

SAMPLE LOCATIONS

BUFFALO DEVELOPMENT CORP.
BUFFALO, NEW YORK

PREPARED FOR
432 PEARL STREET PROPERTY

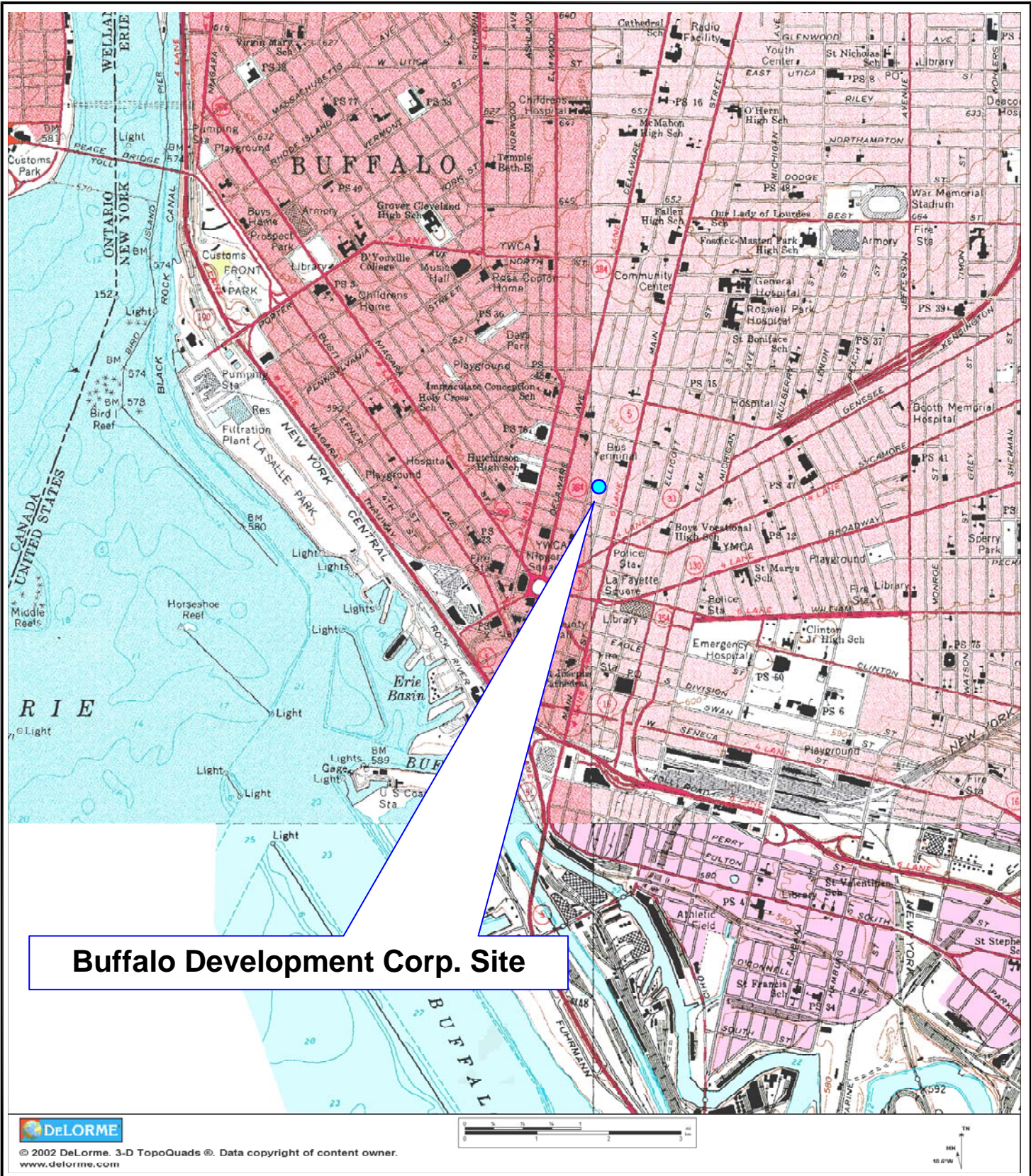
PROJECT NO.: 0099-003-100

DATE: JUNE 2006

DRAFTED BY: BCH

ATTACHMENT 05c

REMEDIAL INVESTIGATION TABLES AND FIGURES (MAY 2007)



Buffalo Development Corp. Site



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726 EXCHANGE STREET
SUITE 624
BUFFALO, NEW YORK 14210
(716) 856-0599

SITE LOCATION AND VICINITY MAP
REMEDIAL INVESTIGATION REPORT

BUFFALO DEVELOPMENT CORP. SITE
BUFFALO, NEW YORK

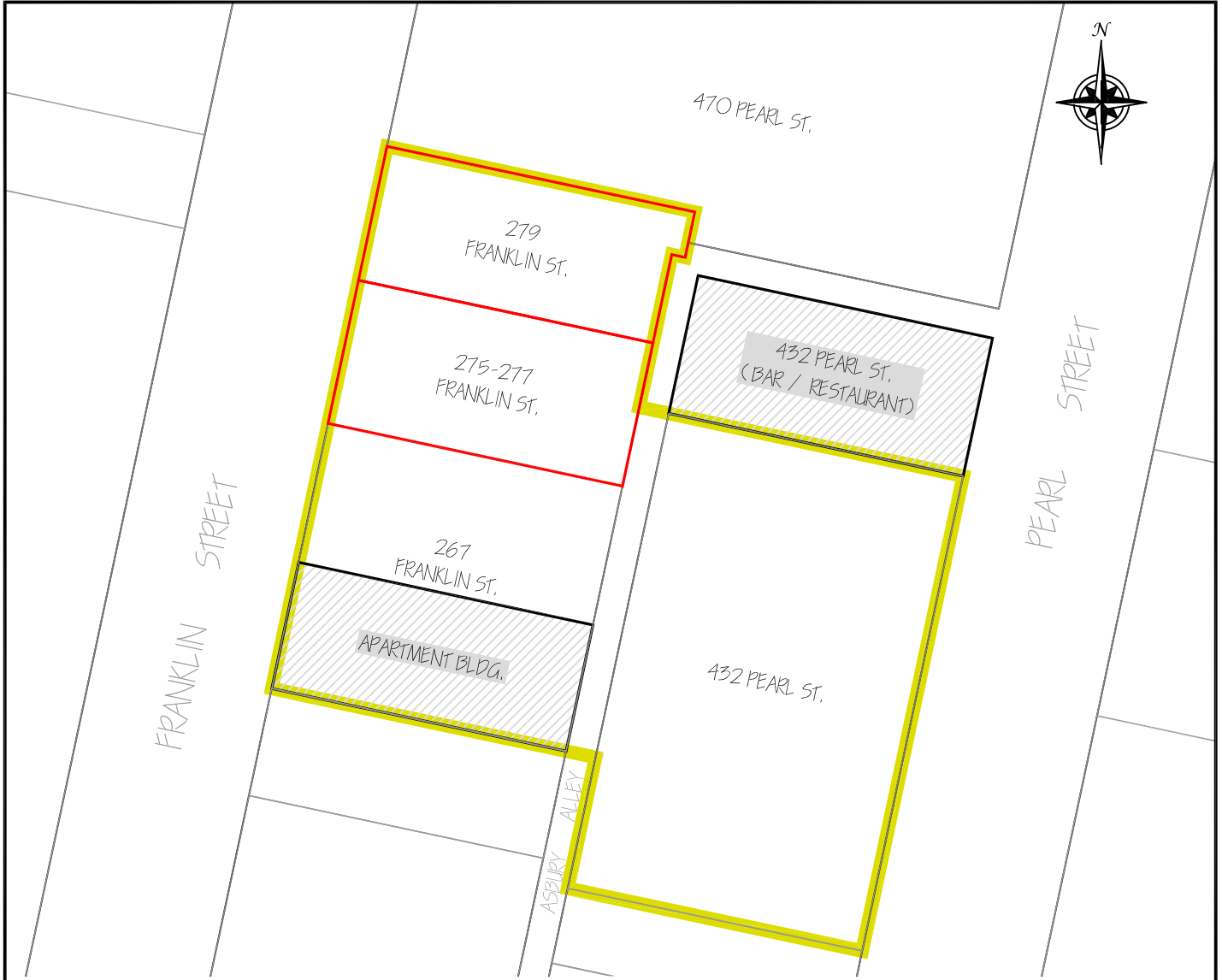
PROJECT NO.: 0099-003-100

DATE: FEBRUARY 2007

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BUFFALO DEVELOPMENT CORPORATION

FIGURE 2



LEGEND:

- BCP SITE BOUNDARY
- PROJECT REDEVELOPMENT AREA



SCALE: 1 INCH = 60 FEET
 SCALE IN FEET
 (approximate)



726 EXCHANGE STREET
 SUITE 624
 BUFFALO, NEW YORK 14210
 (716) 856-0599

PROJECT NO.: 0099-003-100

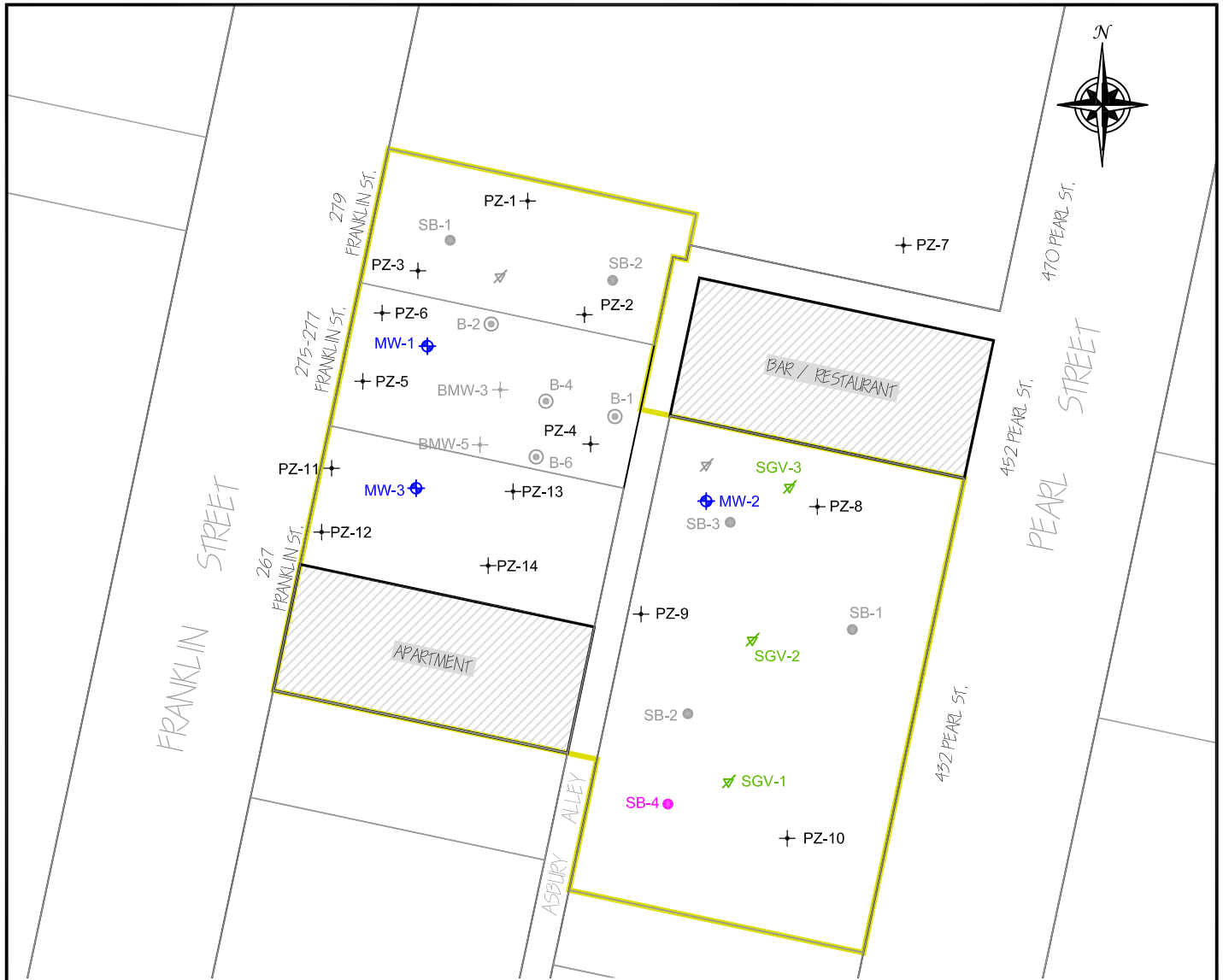
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

SITE PLAN
 REMEDIAL INVESTIGATION REPORT
 BUFFALO DEVELOPMENT CORP. SITE
 BUFFALO, NEW YORK

PREPARED FOR
 BUFFALO DEVELOPMENT CORPORATION

FIGURE 3



LEGEND:

-  PROPERTY BOUNDARY
-  PREVIOUS SOIL BORING (Nature's Way, September 2004)
-  PREVIOUS TEMP. MONITORING WELL (Nature's Way, Sept. 2004)
-  PREVIOUS SOIL BORING (Benchmark, January 2006)
-  PREVIOUS SUBSLAB VAPOR SAMPLE (Benchmark, January 2006)
-  RI SOIL BORING (1) (Benchmark, November 2006)
-  RI SUBGRADE VAPOR SAMPLE (3) (Benchmark, November 2006)
-  RI SOIL BORING/PIEZOMETER (14) (Benchmark, November 2006)
-  RI MONITORING WELL (3) (Benchmark, November 2006)



SCALE: 1 INCH = 60 FEET
SCALE IN FEET
(approximate)



726 EXCHANGE STREET
SUITE 624
BUFFALO, NEW YORK 14210
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SAMPLING LOCATIONS
REMEDIAL INVESTIGATION REPORT

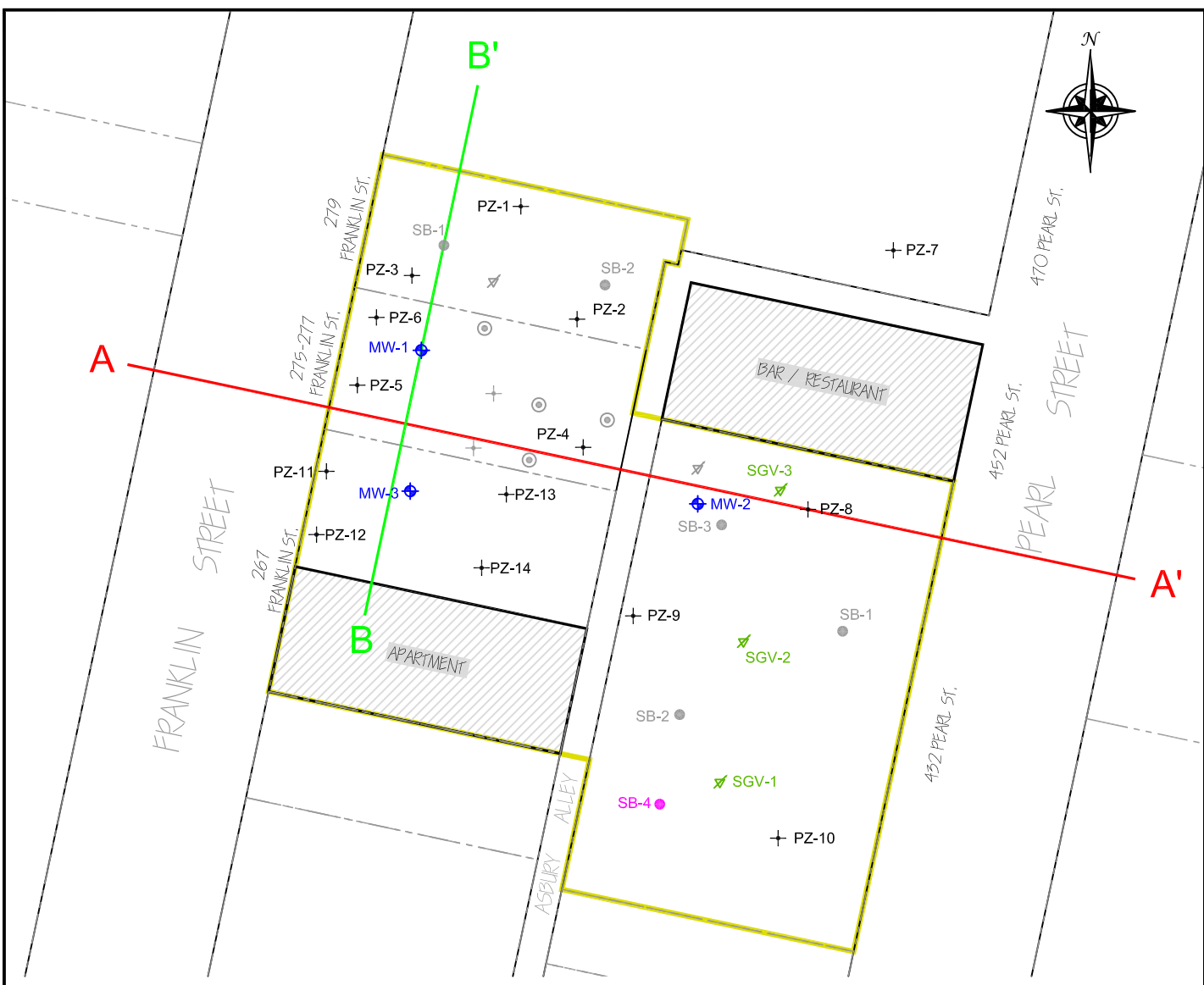
BUFFALO DEVELOPMENT CORP. SITE
BUFFALO, NEW YORK

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BUFFALO DEVELOPMENT CORPORATION

PROJECT NO.: 0099-003-100

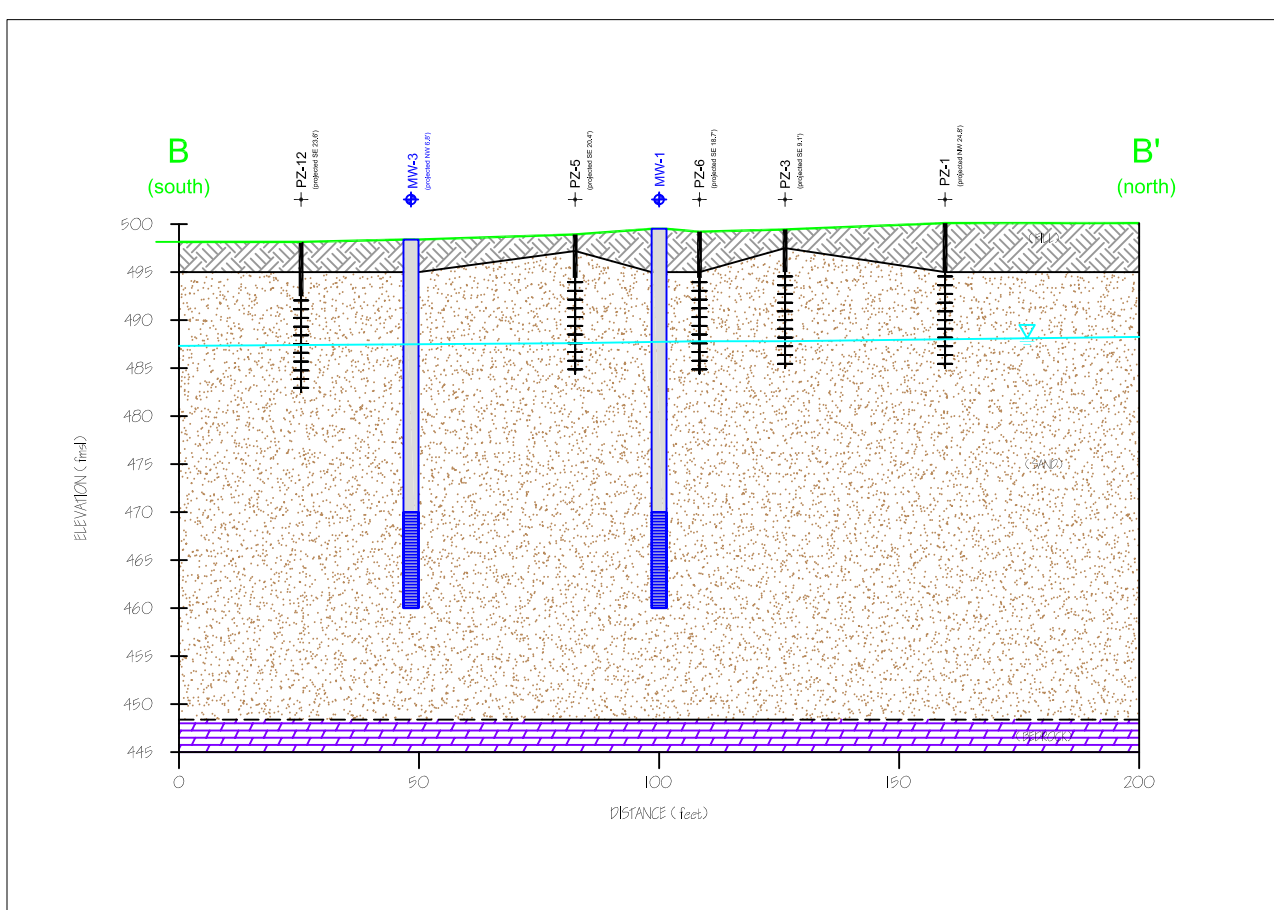
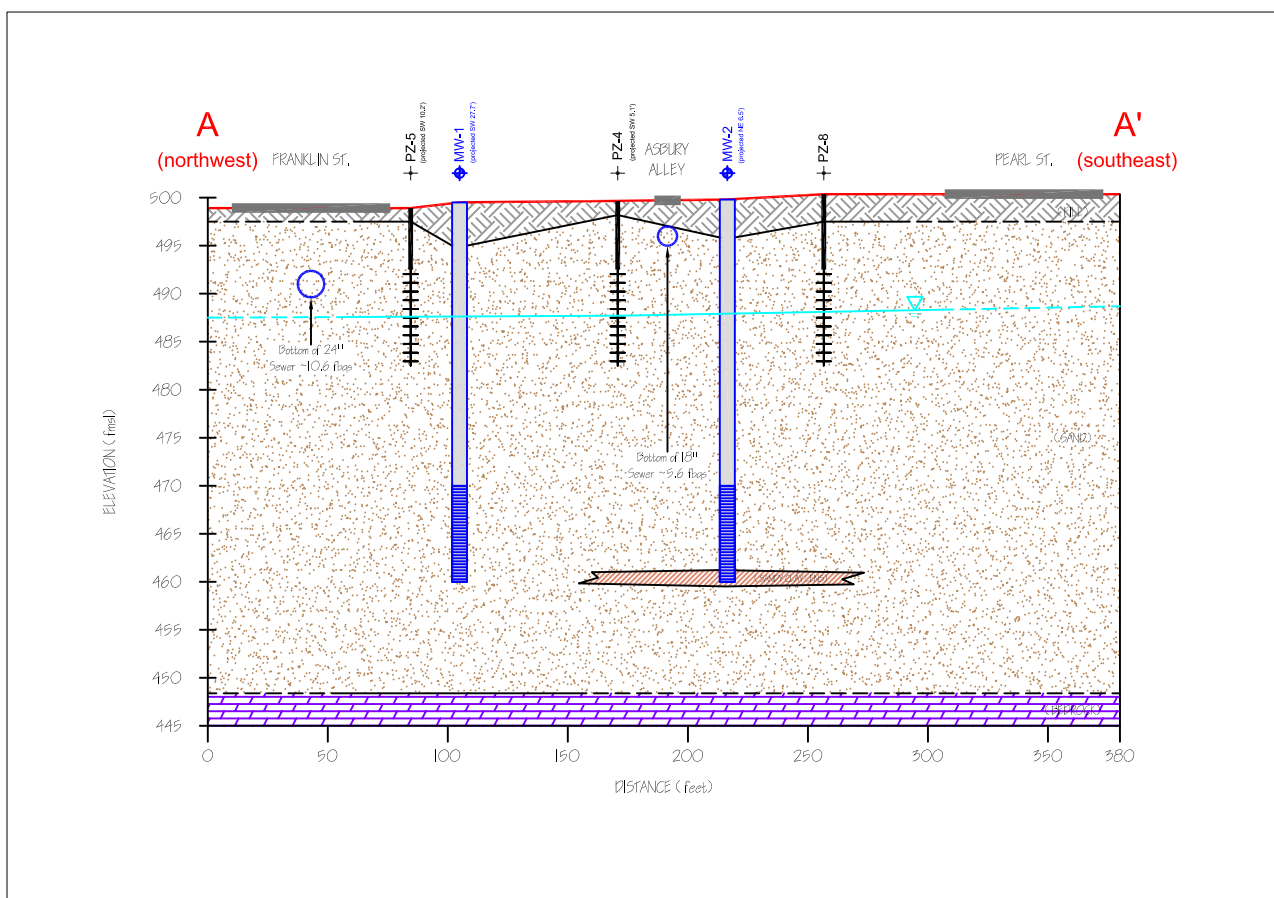
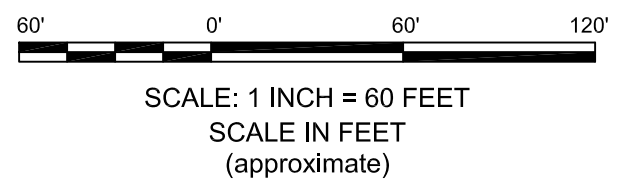
DATE: FEBRUARY 2007

DRAFTED BY: BCH



LEGEND:

- PROPERTY BOUNDARY
- ⊙ PREVIOUS SOIL BORING (Nature's Way, September 2004)
- + PREVIOUS TEMP. MONITORING WELL (Nature's Way, Sept. 2004)
- SB-1 ● PREVIOUS SOIL BORING (Benchmark, January 2006)
- ⚡ PREVIOUS SUBSLAB VAPOR SAMPLE (Benchmark, January 2006)
- SB-4 RI SOIL BORING (1) (Benchmark, November 2006)
- ⚡ SGV-1 RI SUBGRADE VAPOR SAMPLE (3) (Benchmark, November 2006)
- PZ-1 + RI SOIL BORING/PIEZOMETER (14) (Benchmark, November 2006)
- ◆ MW-1 RI MONITORING WELL (3) (Benchmark, November 2006)



GEOLOGIC CROSS SECTIONS A & B

REMEDIAL INVESTIGATION REPORT
BUFFALO DEVELOPMENT CORP. SITE
BUFFALO, NEW YORK

BENCHMARK
ENVIRONMENTAL
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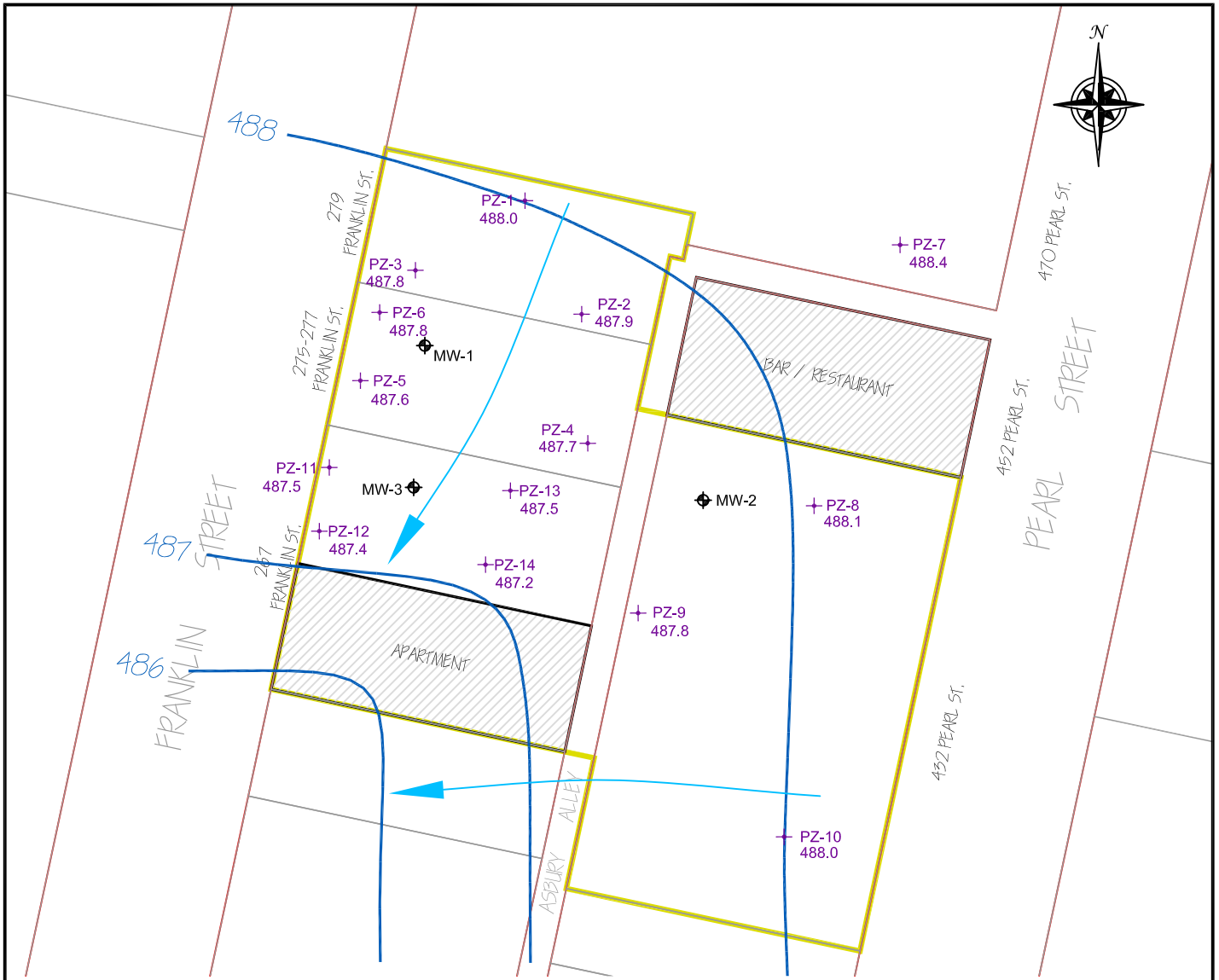
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BUFFALO DEVELOPMENT CORPORATION






JOB NO.: 0099-003-100

FIGURE 4

FIGURE 5



LEGEND:

-  PROPERTY BOUNDARY
-  PZ-1 + 488.0
-  MW-1 488.0
-  488 GROUNDWATER CONTOUR (shallow groundwater ≤ 16 fbs)
-  GROUNDWATER FLOW DIRECTION



SCALE: 1 INCH = 60 FEET
SCALE IN FEET
(approximate)



726 EXCHANGE STREET
SUITE 624
BUFFALO, NEW YORK 14210
(716) 856-0599

PROJECT NO.: 0099-003-100

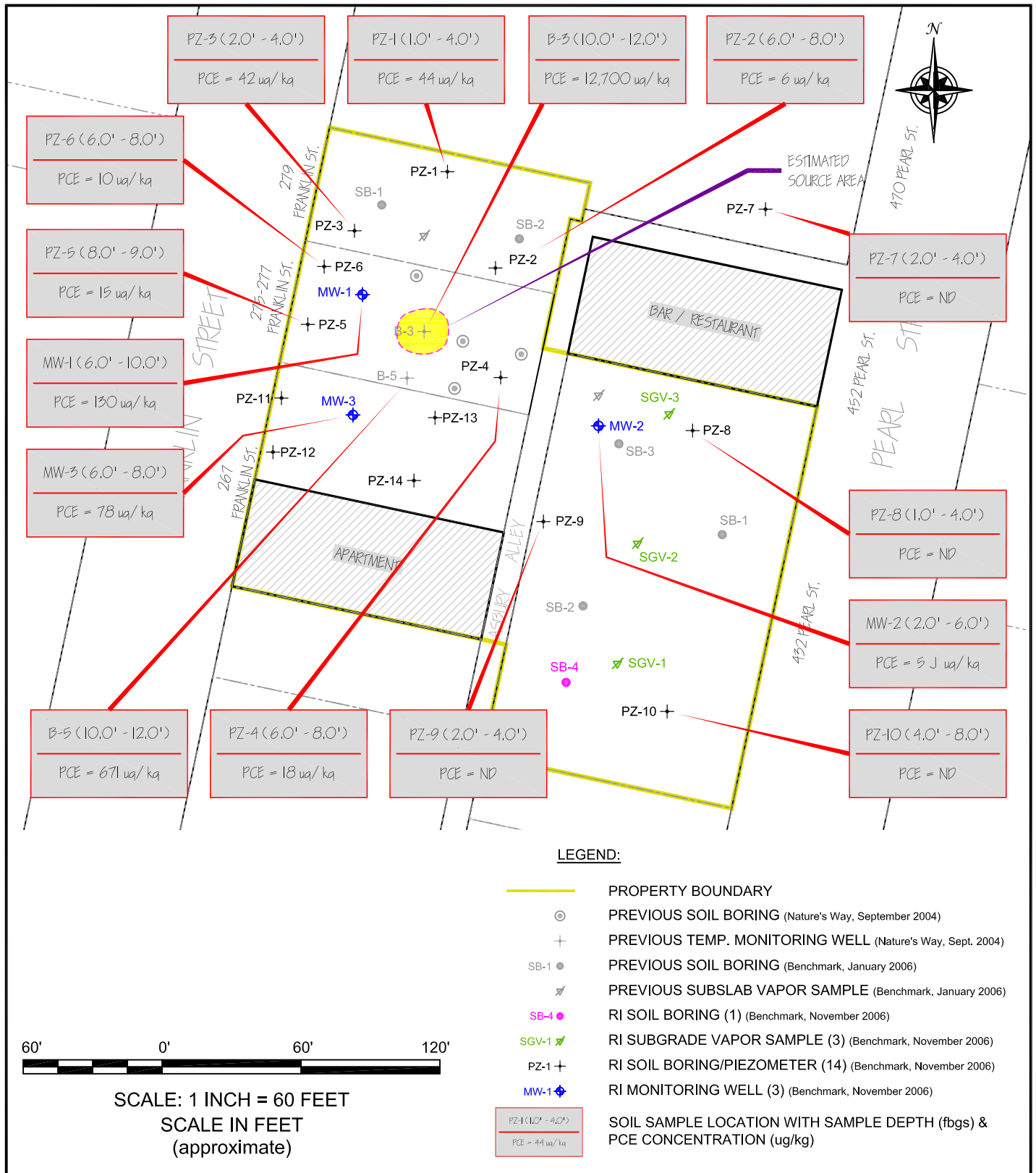
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ISOPOTENTIAL MAP
REMEDIAL INVESTIGATION REPORT
BUFFALO DEVELOPMENT CORP. SITE
BUFFALO, NEW YORK

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FIGURE 6



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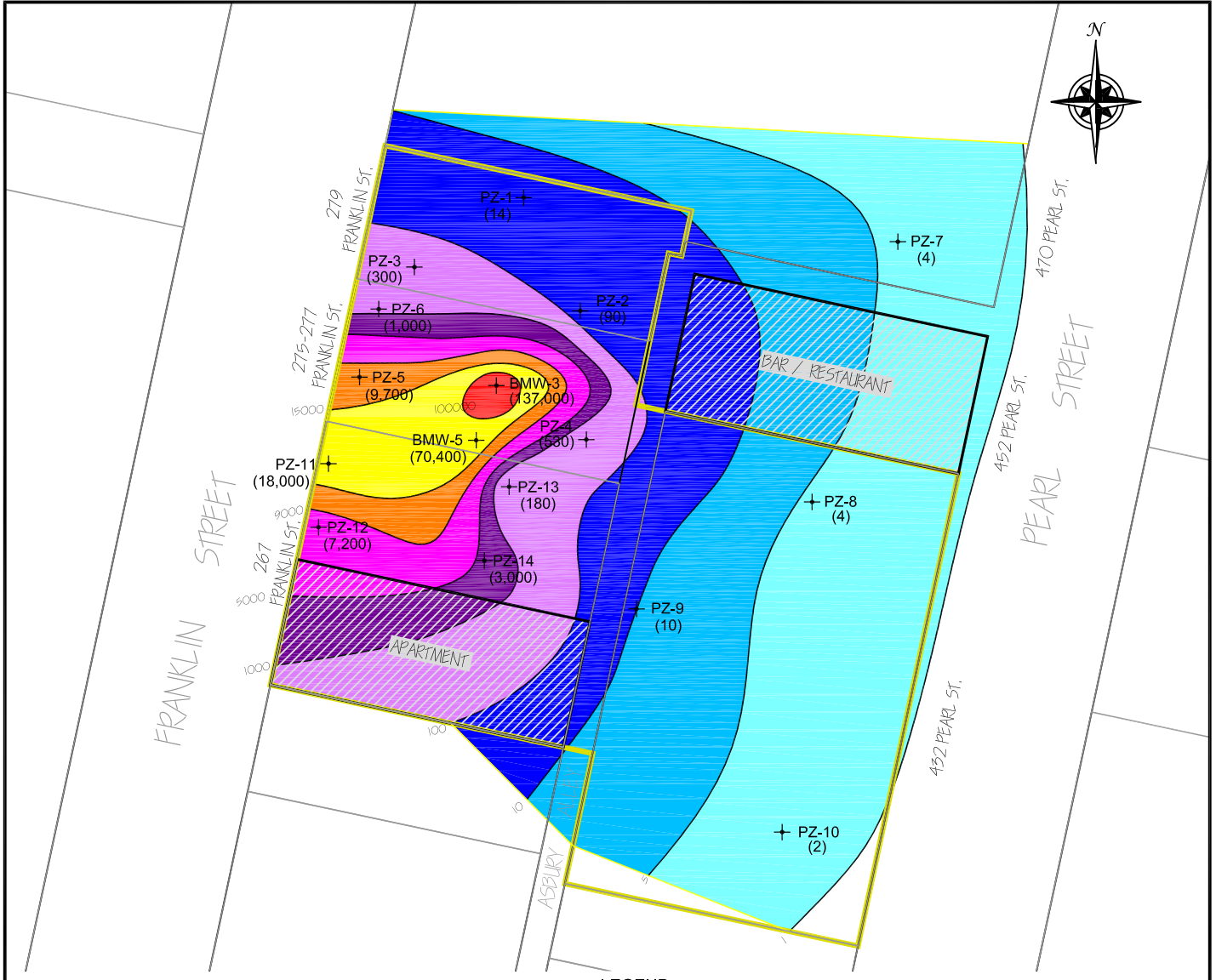
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PCE IN SOIL
REMEDIAL INVESTIGATION REPORT
BUFFALO DEVELOPMENT CORP. SITE
BUFFALO, NEW YORK

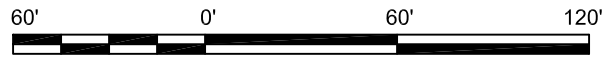
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FIGURE 7



LEGEND:

- PROPERTY BOUNDARY
- PCE CONCENTRATION > 100,000 ppb
- PCE CONCENTRATION 15,000 to 100,000 ppb
- PCE CONCENTRATION 9,000 to 15,000 ppb
- PCE CONCENTRATION 5,000 to 9,000 ppb
- PCE CONCENTRATION 1,000 to 5,000 ppb
- PCE CONCENTRATION 100 to 1,000 ppb
- PCE CONCENTRATION 10 to 100 ppb
- PCE CONCENTRATION 5 to 10 ppb
- PCE CONCENTRATION 1 to 5 ppb
- BMW-3 + (137,000)
- PZ-1 + (14)
- PZ-2 (90)
- PZ-3 (300)
- PZ-4 (580)
- PZ-5 (9,700)
- PZ-6 (1,000)
- PZ-7 (4)
- PZ-8 (4)
- PZ-9 (10)
- PZ-10 (2)
- PZ-11 (18,000)
- PZ-12 (7,200)
- PZ-13 (180)
- PZ-14 (3,000)



SCALE: 1 INCH = 60 FEET
SCALE IN FEET
(approximate)

BENCHMARK
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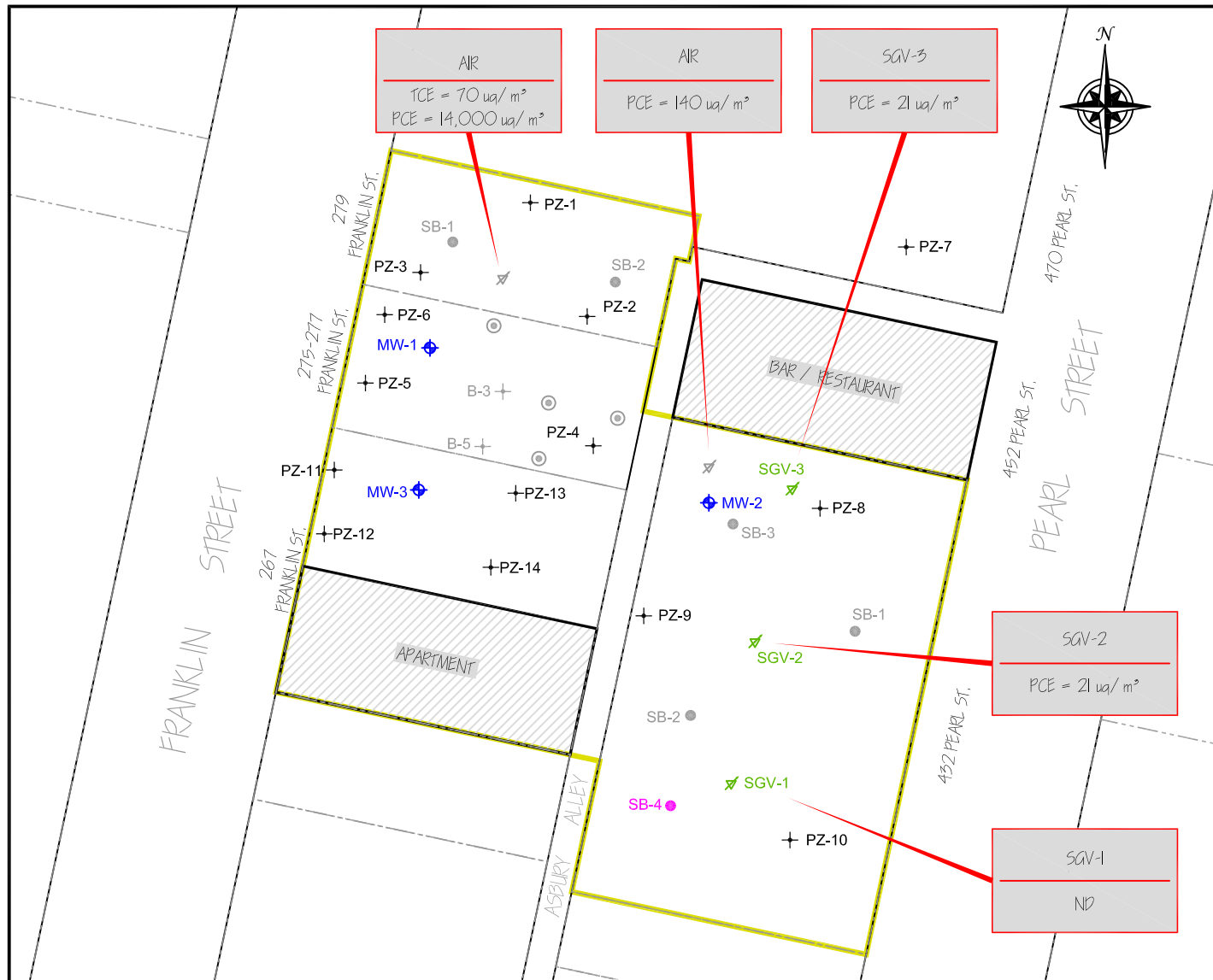
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**PCE IN GROUNDWATER
ISOCONCENTRATION MAP**
REMEDIAL INVESTIGATION REPORT
BUFFALO DEVELOPMENT CORP. SITE
BUFFALO, NEW YORK

PREPARED FOR
BUFFALO DEVELOPMENT CORPORATION

FIGURE 8



AIR
TCE = 70 ug/m³
PCE = 14,000 ug/m³

AIR
PCE = 140 ug/m³

SGV-3
PCE = 21 ug/m³

SGV-2
PCE = 21 ug/m³

SGV-1
ND

LEGEND:

- PROPERTY BOUNDARY
- PREVIOUS SOIL BORING (Nature's Way, September 2004)
- PREVIOUS TEMP. MONITORING WELL (Nature's Way, Sept. 2004)
- PREVIOUS SOIL BORING (Benchmark, January 2006)
- PREVIOUS SUBSLAB VAPOR SAMPLE (Benchmark, January 2006)
- RI SOIL BORING (1) (Benchmark, November 2006)
- RI SUBGRADE VAPOR SAMPLE (3) (Benchmark, November 2006)
- RI SOIL BORING/PIEZOMETER (14) (Benchmark, November 2006)
- RI MONITORING WELL (3) (Benchmark, November 2006)
- CHLORINATED VOCs IN SOIL GAS CONCENTRATION (ug/m³)



SCALE: 1 INCH = 60 FEET
SCALE IN FEET
(approximate)



726 EXCHANGE STREET
SUITE 624
BUFFALO, NEW YORK 14210
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CHLORINATED VOCs IN SOIL GAS
REMEDIAL INVESTIGATION REPORT
BUFFALO DEVELOPMENT CORP. SITE
BUFFALO, NEW YORK

PREPARED FOR
BUFFALO DEVELOPMENT CORPORATION

PROJECT NO.: 0099-003-100

DATE: FEBRUARY 2007

DRAFTED BY: BCH

TABLE 1

GROUNDWATER ELEVATIONS

**BUFFALO DEVELOPMENT CORPRATION HOTEL SITE
BUFFALO, NEW YORK**

Monitoring Location	Top of Protective Casing Elev.	TOR Elevation (fmsl)	Depth to Water (fbTOR)	Groundwater Elevation (fmsl)
MW-1	499.51	499.22	11.43	487.79
MW-2	500.08	499.81	7.98	491.83
MW-3	498.38	498.13	10.53	487.60
PZ - 1	500.10	500.04	12.09	487.95
PZ - 2	499.84	499.70	11.85	487.85
PZ - 3	499.44	499.32	11.54	487.78
PZ - 4	499.66	499.42	11.68	487.74
PZ - 5	498.92	498.65	11.05	487.60
PZ - 6	499.21	499.10	11.33	487.77
PZ - 7	501.13	500.95	12.55	488.40
PZ - 8	500.37	500.16	12.02	488.14
PZ - 9	499.01	498.79	10.95	487.84
PZ - 10	499.03	498.80	10.83	487.97
PZ - 11	498.18	498.02	10.55	487.47
PZ - 12	498.14	497.93	10.57	487.36
PZ - 13	498.47	498.05	10.53	487.52
PZ - 14	498.26	497.92	10.75	487.17

All wells surveyed on 1/11/07 with site specific datum of 500 feet.

**TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS**

**BUFFALO DEVELOPMENT CORP.
BUFFALO, NEW YORK**

Parameter ¹	Sample Event																						Restricted-Commercial SCOs ³
	Historical Data						Brownfield Cleanup Program Remedial Investigation Data																
	275-277 Franklin St. (September 2004)		279 Franklin St. (January 2006)		432 Pearl St. (January 2006)		279 Franklin St. (November 2006)			275-277 Franklin St. (November 2006)					432 Pearl St. (November 2006)						267 Franklin St. (November 2006)		
	B-3 (10-12')	B-5 (10-12')	SB-1	SB-2	SB-1	SB-2	SB-3	PZ-1 (1-4')	PZ-2 (6-8')	PZ-3 (2-4')	PZ-4 (6-8')	PZ-5 (8-9')	PZ-6 (6-8')	MW-1 (6-10')	BD ² (6-10')	PZ-8 (1-4')	PZ-9 (2-4')	PZ-9 (4-8')	PZ-10 (4-8')	SB-4 (4-8')	MW-2 (2-6')	MW-3 (6-8')	
TCL Volatile Organic Compounds (VOCs) - mg/kg ⁴																							
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006 J	ND	0.002 J	0.003 J	ND	ND	NA	ND	ND	ND	ND	500 [†]
Tetrachloroethene	12.7	0.671	ND	ND	ND	ND	ND	0.044	0.006 J	0.042	0.018	0.015	0.01	0.13 J	0.54 J	ND	ND	NA	ND	ND	ND	0.078	150
Total VOCs	12.70	0.67	0.00	0.00	0.00	0.00	0.00	0.04	0.01	0.04	0.02	0.02	0.01	0.13	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.08	
TCL SVOCs - base neutral fraction (mg/kg) ⁴																							
Acenaphthene	NA	NA	ND	ND	ND	1.4 J	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	ND	NA	ND	NA	NA	
Acenaphthylene	NA	NA	ND	ND	ND	0.48 J	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	ND	NA	ND	NA	NA	
Anthracene	NA	NA	ND	ND	ND	2.7 J	ND	NA	NA	NA	NA	NA	NA	ND	0.009 J	0.024 J	NA	ND	NA	ND	NA	NA	500 [†]
2,4-Dinitrophenol	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	1.4 J	3.7 J	1 J	NA	0.86 J	NA	0.85 J	NA	NA	--
Benzo(a)anthracene	NA	NA	ND	0.44 J	7.2 J	7.7 J	0.8 J	NA	NA	NA	NA	NA	NA	0.013 J	0.041 J	0.14 J	NA	ND	NA	ND	NA	NA	5.6
Benzo(b)fluoranthene	NA	NA	ND	0.57 J	10 J	12	0.93 J	NA	NA	NA	NA	NA	NA	0.015 J	0.062 J	0.16 J	NA	ND	NA	ND	NA	NA	5.6
Benzo(k)fluoranthene	NA	NA	ND	ND	4.4 J	2.6 J	0.35 J	NA	NA	NA	NA	NA	NA	0.012 J	0.016 J	0.16 J	NA	ND	NA	ND	NA	NA	56
Benzo(ghi)perylene	NA	NA	ND	0.47 J	4.7 J	4.2 J	0.38 J	NA	NA	NA	NA	NA	NA	0.014 J	0.035 J	0.05 J	NA	ND	NA	ND	NA	NA	500 [†]
Benzo(a)pyrene	NA	NA	ND	ND	7.2 J	8.3	0.74 J	NA	NA	NA	NA	NA	NA	0.009 J	0.044 J	0.14 J	NA	ND	NA	ND	NA	NA	1
Bis (2-ethylhexyl) phthalate	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	11	5.9	ND	NA	ND	NA	ND	NA	NA	--
Butyl benzyl phthalate	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	0.75	0.4	ND	NA	ND	NA	ND	NA	NA	--
Carbazole	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	0.039 J	NA	ND	NA	ND	NA	NA	--
Chrysene	NA	NA	ND	ND	7.8 J	8.4 J	0.71 J	NA	NA	NA	NA	NA	NA	0.012 J	0.04 J	0.2 J	NA	ND	NA	ND	NA	NA	56
Dibenzo (a,h) anthracene	NA	NA	ND	ND	ND	1.3 J	ND	NA	NA	NA	NA	NA	NA	0.014 J	0.011 J	0.017 J	NA	ND	NA	ND	NA	NA	0.56
Dibenzofuran	NA	NA	ND	ND	ND	1.1 J	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	ND	NA	ND	NA	NA	
Di-n-butyl phthalate	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	0.18 J	0.13 J	ND	NA	ND	NA	ND	NA	NA	--
Di-n-octyl phthalate	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	0.52	0.3 J	ND	NA	ND	NA	ND	NA	NA	--
Fluoranthene	NA	NA	0.63 J	0.55 J	18 J	20	1.9 J	NA	NA	NA	NA	NA	NA	0.019 J	0.083 J	0.49	NA	ND	NA	ND	NA	NA	500 [†]
Fluorene	NA	NA	ND	ND	ND	1.3 J	ND	NA	NA	NA	NA	NA	NA	ND	ND	0.011 J	NA	ND	NA	ND	NA	NA	500 [†]
Indeno (1,2,3-cd) pyrene	NA	NA	ND	ND	4.3 J	3.8 J	0.36 J	NA	NA	NA	NA	NA	NA	0.016 J	0.038 J	0.065 J	NA	ND	NA	ND	NA	NA	5.6
2-Methylnaphthalene	NA	NA	ND	ND	ND	0.66 J	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	ND	NA	ND	NA	NA	
Naphthalene	NA	NA	ND	ND	ND	1.3 J	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	ND	NA	ND	NA	NA	
N-Nitroso-Di-n-propylamine	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	0.34 J	0.34 J	NA	ND	NA	NA	
Phenanthrene	NA	NA	ND	ND	12 J	17	1.5 J	NA	NA	NA	NA	NA	NA	0.01 J	0.044 J	0.22 J	NA	ND	NA	ND	NA	NA	500 [†]
Pyrene	NA	NA	0.53 J	0.58 J	17 J	21	1.7 J	NA	NA	NA	NA	NA	NA	0.016 J	0.059 J	0.27 J	NA	ND	NA	ND	NA	NA	500 [†]
Total SVOCs			1.16	2.61	92.60	113.36	9.37							14.00	10.91	2.99	0.34	1.20		0.85		NA	
Pesticides (mg/kg) ⁴																							
Dieldrin	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	0.0051 J	0.0038 J	ND	NA	ND	NA	ND	NA	NA	1.4
4,4'-DDE	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	0.0053 J	0.0037 J	ND	NA	ND	NA	ND	NA	NA	62
4,4'-DDD	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	0.0089 J	0.0067 J	ND	NA	ND	NA	ND	NA	NA	92
4,4'-DDT	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	0.044 J	0.026 J	0.00045 J	NA	ND	NA	ND	NA	NA	47
Methoxychlor	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	0.0068 NJ	ND	NA	ND	NA	ND	NA	NA	--
Endrin	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	0.015 J	0.019 J	ND	NA	ND	NA	ND	NA	NA	
Endrin ketone	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	0.003 J	ND	ND	NA	0.00068 J	NA	ND	NA	NA	--
Endrin aldehyde	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	1E-03 NJ	NA	ND	NA	ND	NA	NA	--
alpha-Chlordane	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	0.0035 J	ND	ND	NA	ND	NA	ND	NA	NA	24
gamma-Chlordane	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	0.0034 J	0.0024 NJ	ND	NA	ND	NA	ND	NA	NA	--
Archlor 1254	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	0.15 J	0.19 J	ND	NA	ND	NA	ND	NA	NA	

**TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS**

**BUFFALO DEVELOPMENT CORP.
BUFFALO, NEW YORK**

Parameter ¹	Sample Event																						Restricted-Commercial SCOs ³
	Historical Data						Brownfield Cleanup Program Remedial Investigation Data																
	275-277 Franklin St. (September 2004)		279 Franklin St. (January 2006)		432 Pearl St. (January 2006)		279 Franklin St. (November 2006)			275-277 Franklin St. (November 2006)				432 Pearl St. (November 2006)					267 Franklin St. (November 2006)				
	B-3 (10-12')	B-5 (10-12')	SB-1	SB-2	SB-1	SB-2	SB-3	PZ-1 (1-4')	PZ-2 (6-8')	PZ-3 (2-4')	PZ-4 (6-8')	PZ-5 (8-9')	PZ-6 (6-8')	MW-1 (6-10')	BD ² (6-10')	PZ-8 (1-4')	PZ-9 (2-4')	PZ-9 (4-8')	PZ-10 (4-8')	SB-4 (4-8')	MW-2 (2-6')	MW-3 (6-8')	
TAL Metals (mg/kg)																							
Aluminum	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	2190 J	2770 J	5930 *	NA	2310 *	NA	1500 *	NA	NA	--
Antimony	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	0.92 B	ND	ND	NA	ND	NA	ND	NA	NA	--
Arsenic	NA	NA	3.5	5.1	5.3	9	4.3	NA	NA	NA	NA	NA	NA	1.6 J	1.9 J	2.6 J	NA	0.44 J	NA	0.69 J	NA	NA	16
Barium	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	15.7 B	21.6	111	NA	13.2 B	NA	12.5 B	NA	NA	400
Beryllium	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	0.09 B	0.1 B	ND	NA	ND	NA	ND	NA	NA	590
Cadmium	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	0.14 B	0.22 B	0.16 B	NA	ND	NA	0.1 B	NA	NA	9.3
Calcium	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	41200 J	53300 J	28600 *	NA	59200 *	NA	38300 *	NA	NA	--
Chromium	NA	NA	6.3	11.1	6.6	11.4	8.2	NA	NA	NA	NA	NA	NA	3.9	7.1	7.6	NA	3.3	NA	2.5	NA	NA	1500
Cobalt	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	1.8 B	2.3 B	2.9 B	NA	1.3 B	NA	1.3 B	NA	NA	--
Copper	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	5.8	12.4	16.4	NA	4.2	NA	4.8	NA	NA	270
Iron	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	6370	8470	8910 *	NA	5680 *	NA	4010 *	NA	NA	--
Lead	NA	NA	87.8	358	103	507	78.1	NA	NA	NA	NA	NA	NA	6.3 J	9.4 J	72.3 J	NA	3.8 J	NA	8.3 J	NA	NA	1000
Magnesium	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	18800	24400	6960 *	NA	24300 *	NA	16900 *	NA	NA	--
Manganese	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	208 J	266 J	428 J	NA	157 J	NA	137 J	NA	NA	10000
Mercury	NA	NA	0.18	0.33	0.089	1.1	0.11	NA	NA	NA	NA	NA	NA	ND	ND	0.426	NA	ND	NA	ND	NA	NA	2.8
Nickel	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	3.7 B	4.7	7.0	NA	3.2 B	NA	2.6 B	NA	NA	310
Potassium	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	547	707	886	NA	615	NA	382 B	NA	NA	--
Selenium	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	0.69 B	NA	ND	NA	ND	NA	NA	1500
Silver	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	0.15 B	NA	ND	NA	ND	NA	NA	1500
Sodium	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	153 B	224 B	1080	NA	124 B	NA	113 B	NA	NA	--
Thallium	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	ND	NA	ND	NA	NA	--
Vanadium	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	9.3	12.2	12.9	NA	8.1	NA	5.4	NA	NA	--
Zinc	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	52.3 J	64.9 J	88.8 *	NA	42.9 *	NA	43.6 *	NA	NA	10000
Wet Chemistry Analysis (units as indicated)																							
Leachable pH (S.U.)	NA	NA	NA	NA	NA	NA	NA	7.84	8.1	8.31	8.03	8.06	8.19	8.38	7.85	9.18	9.28	8.12	8.62	8.85	NA	NA	--

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Blind duplicate collected from MW-1.
3. Values per NYSDEC draft Part 375 Soil Cleanup Objectives (June 2006); "500*" = the SCOs for commercial use were capped at a maximum value of 500 ppm.
4. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparison to SCOs.

Definitions:

- ND = Parameter not detected above laboratory detection limit.
- NA = Sample not analyzed for parameter.
- = No SCO available.
- b = Analyte was detected in the associated blank as well as in the sample. Value is above the action level for consideration as being external contamination.
- B = Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- * = Indicates the spike or duplicate analysis is not within the quality control limits.
- D = All compounds were identified in an analysis at the secondary dilution factor.
- N = Indicates spike sample recovery is not within the quality control limits.
- E = Indicates value estimated or not reported due to the presence of interferences.
- P = Detected concentrations between the two GC columns is greater than 25%; lower value is reported and flagged (for CLP methodology only).

**TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS**

**BUFFALO DEVELOPMENT CORP.
BUFFALO, NEW YORK**

Parameter ¹	Sample Location																				GWQS/ GV ₃
	Historical Data		Brownfield Cleanup Program Remedial Investigation																		
	BMW-3	BMW-5	PZ-1	PZ-2	PZ-3	PZ-4	PZ-5	PZ-6	PZ-7	PZ-8	PZ-9	PZ-10	PZ-11	PZ-12	PZ-13	PZ-14	MW-1	MW-2	Blind Dup ²	MW-3	
TCL Volatile Organic Compounds (VOCs) - ug/L																					
Acetone	ND	ND	1 J	1 J	1 J	2 J	ND	ND	2 J	3 J	2 J	2 J	ND	ND	ND	ND	ND	ND	ND	ND	50
Chloroform	ND	ND	ND	ND	ND	ND	3 J	ND	ND	ND	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	7
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10 J	ND	
Cyclohexane	ND	ND	ND	ND	ND	ND	ND	ND	1 J	1 J	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
cis-1,2-Dichloroethene	ND	ND	ND	ND	1 J	ND	42	26	ND	ND	ND	ND	94	ND	1 J	6 J	2 J	ND	ND	ND	5
Methylcyclohexane	ND	ND	ND	ND	1 J	ND	1 J	1 J	2 J	1 J	2 J	1 J	ND	ND	ND	ND	ND	ND	ND	ND	--
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10 J	ND	ND	ND	64 DJ	ND	ND	ND	5
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Trichloroethene	ND	ND	ND	ND	ND	3 J	11	5 J	ND	ND	ND	ND	17 J	ND	ND	17	21	ND	ND	ND	5
Tetrachloroethene	137,000	70,400	14	90	300	530	9700	1000	4 J	4 J	10	2 J	18000 J	7200 J	180 J	3200 J	4100	5 J	180 J	6 J	5
Toluene	ND	ND	ND	ND	1 J	1 J	ND	1 J	1 J	1 J	2 J	1 J	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 J	ND	ND	ND	ND	3
Total VOCs	137000	70400	15	91	304	536	9758	1033	10	10	17	7	18121	7200	181	3224	4187	5	190	6	
TCL SVOCs - (ug/L)																					
Acenaphthene	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	20
Acenaphthylene	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	--
Acetophenone	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	--
Anthracene	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	50
Atrazine	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	7.5
Benzaldehyde	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	--
Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	0.8 J	NA	0.002
Benzo(a)pyrene	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	0.6 J	1 J	NA	ND
Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	2 J	NA	0.002
Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	0.002
Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	1 J	NA	--
Bis(2-chloroethyl) ether	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	1
Bis(2-chloroethoxy) methane	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	5
4-Bromophenyl phenyl ether	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	--
Butyl benzyl phthalate	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	50
Caprolactam	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	1000 J	940 J	NA	--
Carbazole	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	--
1-Chloropropane	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	--
2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	10
4-Chloroaniline	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	5
4-Chloro-3-methylphenol	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	--
4-Chlorophenyl phenyl ether	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	--
Chrysene	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	1 J	2 J	NA	0.002
Di-n-butyl phthalate	NA	NA	NA	NA	NA	NA	10 UJ	0.5 J	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	50
Di-n-octyl phthalate	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	--

**TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS**

**BUFFALO DEVELOPMENT CORP.
BUFFALO, NEW YORK**

Parameter ¹	Sample Location																			GWQS/ GV ₃	
	Historical Data		Brownfield Cleanup Program Remedial Investigation																		
	BMW-3	BMW-5	PZ-1	PZ-2	PZ-3	PZ-4	PZ-5	PZ-6	PZ-7	PZ-8	PZ-9	PZ-10	PZ-11	PZ-12	PZ-13	PZ-14	MW-1	MW-2	Blind Dup ²		MW-3
Dibenzofuran	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	--
Dibenzo(a,h) anthracene	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	--
3,3'-Dichlorobenzidine	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	5
Dimethyl phthalate	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	50
Diethyl phthalate	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	50
2,4-Dimethylphenol	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	50
2,4-Dinitrophenol	NA	NA	NA	NA	NA	NA	40 UJ	40 UJ	NA	NA	NA	NA	NA	NA	NA	NA	40 J	40 J	40 J	NA	10
2,4-Dinitrotoluene	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	5
2,6-Dinitrotoluene	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	5
Fluoranthene	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	2 J	3 J	NA	50
Flourene	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	50
Hexachloroethane	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	5
Hexachlorobenzene	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	0.04
Hexachlorobutadiene	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	1
Hexachlorocyclopentadiene	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	5
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	0.9 J	NA	0.002
Isophorone	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	50
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	--
Naphthalene	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	10
N-Nitroso-Di-n-propylamine	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	--
N-nitrosodiphenylamine	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	50
Nitrobenzene	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	0.4
2-Nitroaniline	NA	NA	NA	NA	NA	NA	24 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	5
3-Nitroaniline	NA	NA	NA	NA	NA	NA	24 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	5
4-Nitroaniline	NA	NA	NA	NA	NA	NA	24 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	5
2-Nitrophenol	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	1
Phenanthrene	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	1 J	2 J	NA	50
Pyrene	NA	NA	NA	NA	NA	NA	10 UJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	2 J	2 J	NA	50
Total SVOCs	0	0	0	0	0	0	602	41	0	0	0	0	0	0	0	0	40	1047	995	0	
Pesticides (ug/L)																					
alpha-BHC	NA	NA	NA	NA	NA	NA	ND	0.05 UJ	NA	NA	NA	NA	NA	NA	NA	NA	ND	0.014 J	0.011 J	NA	--
beta-BHC	NA	NA	NA	NA	NA	NA	ND	0.05 UJ	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	--
delta-BHC	NA	NA	NA	NA	NA	NA	ND	0.05 UJ	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	--
gamma-BHC (Lindane)	NA	NA	NA	NA	NA	NA	ND	0.05 UJ	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	--
Heptachlor	NA	NA	NA	NA	NA	NA	ND	0.05 UJ	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	0.04
Aldrin	NA	NA	NA	NA	NA	NA	ND	0.05 UJ	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	ND
Heptachlor epoxide	NA	NA	NA	NA	NA	NA	ND	0.05 UJ	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	0.03
Endosulfan I	NA	NA	NA	NA	NA	NA	ND	0.05 UJ	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	--
Dieldrin	NA	NA	NA	NA	NA	NA	ND	0.1 UJ	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	0.004
4,4'-DDE	NA	NA	NA	NA	NA	NA	ND	0.1 UJ	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	0.3
Endrin	NA	NA	NA	NA	NA	NA	ND	0.1 UJ	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	ND

**TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS**

**BUFFALO DEVELOPMENT CORP.
BUFFALO, NEW YORK**

Parameter ¹	Sample Location																			GWQS/ GV ₃	
	Historical Data		Brownfield Cleanup Program Remedial Investigation																		
	BMW-3	BMW-5	PZ-1	PZ-2	PZ-3	PZ-4	PZ-5	PZ-6	PZ-7	PZ-8	PZ-9	PZ-10	PZ-11	PZ-12	PZ-13	PZ-14	MW-1	MW-2	Blind Dup ²		MW-3
Endosulfan II	NA	NA	NA	NA	NA	NA	ND	0.1 UJ	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	--
4,4'-DDD	NA	NA	NA	NA	NA	NA	ND	0.1 UJ	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	0.3
Endosulfan Sulfate	NA	NA	NA	NA	NA	NA	ND	0.1 UJ	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	0.021 J	NA	--
4,4'-DDT	NA	NA	NA	NA	NA	NA	ND	0.1 UJ	NA	NA	NA	NA	NA	NA	NA	NA	0.094 J	ND	0.023 J	NA	0.2
Methoxychlor	NA	NA	NA	NA	NA	NA	ND	0.5 UJ	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	35.0
Endrin ketone	NA	NA	NA	NA	NA	NA	ND	0.1 UJ	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	5.0
Endrin aldehyde	NA	NA	NA	NA	NA	NA	ND	0.1 UJ	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	5.0
alpha-Chlordane	NA	NA	NA	NA	NA	NA	ND	0.05 UJ	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	0.05
gamma-Chlordane	NA	NA	NA	NA	NA	NA	ND	0.05 UJ	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	0.05
Toxaphene	NA	NA	NA	NA	NA	NA	ND	5 UJ	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	0.06
Aroclor 1016	NA	NA	NA	NA	NA	NA	ND	1 UJ	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	--
Aroclor 1221	NA	NA	NA	NA	NA	NA	ND	2 UJ	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	--
Aroclor 1232	NA	NA	NA	NA	NA	NA	ND	1 UJ	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	--
Aroclor 1242	NA	NA	NA	NA	NA	NA	ND	1 UJ	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	--
Aroclor 1248	NA	NA	NA	NA	NA	NA	ND	1 UJ	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	--
Aroclor 1254	NA	NA	NA	NA	NA	NA	ND	1 UJ	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	--
Aroclor 1260	NA	NA	NA	NA	NA	NA	ND	1 UJ	NA	NA	NA	NA	NA	NA	NA	NA	0.094 J	0.1 J	ND	NA	--
Inorganic Compounds (ug/L)																					
Aluminum	NA	NA	NA	NA	NA	NA	31300	13900	NA	NA	NA	NA	NA	NA	NA	NA	1040	1450	1310	NA	--
Arsenic	NA	NA	NA	NA	NA	NA	42.4	17.3	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	25
Barium	NA	NA	NA	NA	NA	NA	1000	288	NA	NA	NA	NA	NA	NA	NA	NA	80.2 B	80.3 B	78.3 B	NA	1000
Beryllium	NA	NA	NA	NA	NA	NA	ND	1.4 B	NA	NA	NA	NA	NA	NA	NA	NA	0.18 B	0.47 B	0.45 B	NA	--
Cadmium	NA	NA	NA	NA	NA	NA	4.1 B	1.7 B	NA	NA	NA	NA	NA	NA	NA	NA	1.2 B	ND	1 B	NA	5
Calcium	NA	NA	NA	NA	NA	NA	671000 J	366000	NA	NA	NA	NA	NA	NA	NA	NA	140000	132000	132000	NA	--
Chromium	NA	NA	NA	NA	NA	NA	67.4	28.1	NA	NA	NA	NA	NA	NA	NA	NA	1.6 B	2.1 B	2.3 B	NA	50
Cobalt	NA	NA	NA	NA	NA	NA	70.2	34.7 B	NA	NA	NA	NA	NA	NA	NA	NA	2.2 B	3 B	2.9 B	NA	--
Copper	NA	NA	NA	NA	NA	NA	225	75.8	NA	NA	NA	NA	NA	NA	NA	NA	3.6 B	3.3 B	3.9 B	NA	200
Iron	NA	NA	NA	NA	NA	NA	97700	33500 J	NA	NA	NA	NA	NA	NA	NA	NA	1630 J	2900 J	2820 J	NA	300
Iron- Soluble	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	130	541	ND	NA	300
Lead	NA	NA	NA	NA	NA	NA	156	223	NA	NA	NA	NA	NA	NA	NA	NA	15.3	4 B	4.6 B	NA	25
Magnesium	NA	NA	NA	NA	NA	NA	316000	159000	NA	NA	NA	NA	NA	NA	NA	NA	59600	62000	60500	NA	--
Manganese	NA	NA	NA	NA	NA	NA	3370	1680	NA	NA	NA	NA	NA	NA	NA	NA	107	392	369	NA	300
Manganese- Soluble	NA	NA	NA	NA	NA	NA	42.9	24.3	NA	NA	NA	NA	NA	NA	NA	NA	59.2	263	ND	NA	300
Mercury	NA	NA	NA	NA	NA	NA	0.353 J	0.097 B	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	0.7
Nickel	NA	NA	NA	NA	NA	NA	87.5	33.8 B	NA	NA	NA	NA	NA	NA	NA	NA	3.5 B	3.2 B	4.1 B	NA	100
Potassium	NA	NA	NA	NA	NA	NA	23600	15300	NA	NA	NA	NA	NA	NA	NA	NA	6240	8310	8210	NA	--
Silver	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	50
Sodium	NA	NA	NA	NA	NA	NA	582000	461000	NA	NA	NA	NA	NA	NA	NA	NA	188000	238000	248000	NA	20000
Thallium	NA	NA	NA	NA	NA	NA	8.5 B	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	--
Vanadium	NA	NA	NA	NA	NA	NA	80.9	32 B	NA	NA	NA	NA	NA	NA	NA	NA	2.9 B	2.9 B	2.7 B	NA	--
Zinc	NA	NA	NA	NA	NA	NA	999	395	NA	NA	NA	NA	NA	NA	NA	NA	26.2 B	30.3 B	30.9 B	NA	--

**TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS**

**BUFFALO DEVELOPMENT CORP.
BUFFALO, NEW YORK**

Parameter ¹	Sample Location																				GWQS/ GV ₃
	Historical Data		Brownfield Cleanup Program Remedial Investigation																		
	BMW-3	BMW-5	PZ-1	PZ-2	PZ-3	PZ-4	PZ-5	PZ-6	PZ-7	PZ-8	PZ-9	PZ-10	PZ-11	PZ-12	PZ-13	PZ-14	MW-1	MW-2	Blind Dup ²	MW-3	
Water Quality Parameters (mg/L)																					
Chemical Oxygen Demand	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	20.6	NA	NA	--
Nitrate, mg/L-N	NA	NA	NA	NA	NA	NA	7.6 J	3.4	NA	NA	NA	NA	NA	NA	NA	NA	1.8	0.77	NA	NA	10
Sulfate	NA	NA	NA	NA	NA	NA	125	114 J	NA	NA	NA	NA	NA	NA	NA	NA	113 J	114 J	NA	NA	250
Field Measurements (units as indicated)																					
pH (units)	NA	NA	7.08	7.26	7.23	7.54	7.22	7.75	7.19	7.42	7.37	7.61	NA	NA	NA	NA	7.09	7.12	7.12	7.39	6.5 - 8.5
Temperature (°C)	NA	NA	14.0	16.3	16.3	16.3	10.9	16.0	17.0	17.1	17.0	17.1	NA	NA	NA	NA	10.5	10.4	10.4	9.8	
Specific Conductance (uS)	NA	NA	3496	4646	3590	3782	3722	3679	4913	3242	2944	4368	NA	NA	NA	NA	1903	1968	1968	1834	
Turbidity	NA	NA	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000	NA	NA	NA	NA	>1000	>1000	>1000	>1000	50**
ORP (mV)	NA	NA	20	78	527	49	111	32	529	19	-52	-89	NA	NA	NA	NA	0	0	0	13	
DO (ppm)	NA	NA	6.69	7.27	3.77	5.92	5.42	6.17	6.6	7.86	4.38	4.8	NA	NA	NA	NA	3.02	3.58	3.58	3.76	

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Blind duplicate collected from MW-2.
3. Regulatory limits are NYSDEC Class "GA" Groundwater Quality Standards (GWQS) as published in NYSDEC Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998).

Definitions:

- ND or U = Parameter not detected above laboratory detection limit.
- NA = Parameter not analyzed.
- "-" = No standard available.
- J = Indicates an estimated value.
- B = Value is between the IDL and the CRDL.
- D = Compound identified in an analysis at the secondary dilution factor.
- * = Indicates analysis is not within quality control limits.
- ** = Indicates guidance value
- N = Spike sample recovery is not within quality control limits.
- E = Indicates value estimated or not reported due to the presence of interferences.

= Result exceeds Class GA Groundwater Standard/Guidance Value.

**TABLE 4
SUMMARY OF SOIL VAPOR ANALYTICAL RESULTS**

**BUFFALO DEVELOPMENT CORP.
BUFFALO, NEW YORK**

Parameter ¹	Sampling Event				
	432 Pearl St. (1/20/06)	279 Franklin St. (1/20/06)	432 Pearl St. (11/20/06)		
	Air-1	Air	SGV-1	SGV-2	SGV-3
<i>TCL Volatile Organic Compounds (VOCs) - ug/m³</i>					
1,3-Butadiene	5.8	ND	8.4	9.3	13
Acetone	ND	ND	24	31	29
Dichlorodifluoromethane	3.3	ND	ND	ND	ND
Carbon Disulfide	12	ND	18	5.9	26
n-Hexane	70	190	230	210	170
Methyl Ethyl Ketone	ND	ND	ND	5.3	4.1
Cyclohexane	45	120	210	100	150
2,2,4-Trimethylpentane	6.1	ND	6.1	5.6	15
Benzene	9.9	ND	6.4	13	21
n-Heptane	45	90	140	90	110
Toluene	27	53	5.3	18	29
Tetrachloroethene	140	14000	ND	21	21
Trichloroethene	ND	70	ND	ND	ND
Trichlorofluoromethane	1.8	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	71	ND	ND	ND
Ethylbenzene	5.2	ND	ND	2.6	ND
Xylene (m,p)	22	ND	4.8	11	21
Xylene (o)	6.5	ND	1.8	4.8	13
Xylene (total)	27	ND	6.5	16	34
4-Ethyltoluene	4.9	ND	ND	2.0	3.7
1,3,5-Trimethylbenzene	2.3	ND	ND	ND	3.4
1,4-Dichlorobenzene	4.1	ND	ND	ND	ND
1,2,4-Trimethylbenzene	6.4	ND	ND	ND	3.7
Styrene	9.8	ND	1.7	ND	ND

Notes:

1. Only those compounds detected above the laboratory reporting limit are presented in this table.

Definitions:

ND= Not detected above laboratory detection limits.

ATTACHMENT 06

LISTING OF PREVIOUS SITE OWNERS

**Attachment 06
Listing of Previous Site Owners**

**Buffalo Development Corp.
Buffalo Development Corp. Hotel Site
Brownfield Cleanup Program Application**

INTRODUCTION

The following table lists the previous property owners as described in the Chain of Title. A full title search is available for the 279 Franklin and 267 Franklin properties, and a partial title search for 432 Pearl Street. Property Ownership for 275-277 Franklin was discerned from a review of Deeds filed in the Erie County Clerk's office. Reasonable attempts were made to attain complete previous site owner contact information. In some cases, previous owners complete contact information was not available.

Year	Owner(s)
267 Franklin Street	
<i>Current Owner</i>	
1994-Present	430 Niagara Street Associates 460 Niagara Street Buffalo, NY 14201
<i>Previous Owners</i>	
1886-1898	Emanuel Ullman
1898-1905	Frank Niederpruem
1903-1905	Nation Herkimer County Bank
1905	William Luther
1905-1908	National Herkimer County Bank
1909-1911	Walter Davis
1912	Peter McNeil
1912-1913	Thomas Wallace
1913-1940	Terry & Ethel Arbesman
1914-1936	Lida M Allen and Thomas G Allen
1936-1941	Erie County Savings Bank
1941-1974	Salvatore and Marie Caterina
1974-1980	Donald J. Reeves
1980-1994	George Smilanich III

**Attachment 06
Listing of Previous Site Owners**

**Buffalo Development Corp.
Buffalo Development Corp. Hotel Site
Brownfield Cleanup Program Application**

Year	Owner(s)
275/277 Franklin Street	
<i>Current Owner</i>	
Present	Saturn Development
<i>Previous Owners</i>	
	Willow Top Cleaners, Inc. / Kathryn & Joe Dell Flakes
	Betty Scott Trustee (under Land Trust Agreement)
	Willow Top Cleaners, Inc.
	Dolores J. Wallens
	Duratizing Corporation
279 Franklin Street	
<i>Current Owner</i>	
Present	Skydeck Corporation
<i>Previous Owners</i>	
	Alanson Farrar & Katherine M.
1917-1949	Betsy L. Henafelt
1949	Louise Vidano
1949	Marie T. DeGasper
1970	Leon Lawrence Sidell
1982	Ellis Properties, Inc.
1983	J & L Management Corp.
1983	City of Buffalo Urban Renewal Agency
432 Pearl Street	
<i>Current Owner</i>	
1999-Present	Skydeck Corporation
<i>Previous Owners</i>	
1920	Anthony J. Parloto to Frank Parloto Realty Co.
1923	Frank Parloto
1929	Albert Fisher
1932	The Marine Trust Company of Buffalo
1945	Louise Vidan
1945	James J. DeGasper
1970	Leon Sidell
1979	Ellis Properties, Inc.
1980	Leon Sidell
1973	William H. Gardner

**Attachment 06
Listing of Previous Site Owners**

**Buffalo Development Corp.
Buffalo Development Corp. Hotel Site
Brownfield Cleanup Program Application**

Year	Owner(s)
1983	J & L Management Corp.
1983	City of Buffalo Urban Renewal Agency

ATTACHMENT 07

LISTING OF PREVIOUS SITE OPERATORS

Attachment 07

Listing of Previous Site Operators

Buffalo Development Corp.
Buffalo Development Corp. Hotel Site
Brownfield Cleanup Program Application

INTRODUCTION

Year	Operator(s)
267 Franklin Street	
	No other operators identified beyond those listed on ownership history in Attachment 6
275/277 Franklin Street	
	Willow Top Cleaners, Inc. / Kathryn & Joe Dell Flakes
	Duratizing Corporation (formerly known as Sayon Cleaning and Laundry)
279 Franklin Street	
	No other operators identified beyond those listed on ownership history in Attachment 6
432 Pearl Street	
1925	Martin Fischer and Sons Hot Air Heaters
	No other operators identified beyond those listed on ownership history in Attachment 6

ATTACHMENT 08

CONTACT LIST INFORMATION

ATTACHMENT 08
Contact List Information

Buffalo Development Corp.
Buffalo Development Corp. Hotel Site
Brownfield Cleanup Program Application

CONTACT LIST

The following is the contact list information for the subject property.

New York State Contacts:

Director Abby Snyder
NYSDEC, Region 9
270 Michigan Avenue
Buffalo, NY 14203

Mr. Martin Doster
NYSDEC, Region 9
270 Michigan Avenue
Buffalo, NY 14203

Mr. Gene Melnyk
NYSDEC, Region 9
270 Michigan Avenue
Buffalo, NY 14203

Ms. Meaghan Boice-Green
NYSDEC, Region 9
270 Michigan Ave.
Buffalo, N.Y 14203

Ms. Megan Gollwitzer
NYSDEC, Region 9
270 Michigan Ave.
Buffalo, N.Y 14203

Community Outreach File
NYSDEC, Region 9
270 Michigan Ave.
Buffalo, N.Y 14203

Mr. Cameron O'Connor
NYSDOH
584 Delaware Avenue
Buffalo, NY 14202

Mr. Matt Forcucci
NYSDOH
584 Delaware Avenue
Buffalo, NY 14202

Senator Hillary Rodham-Clinton
U.S. Senate
Larkin Building
726 Exchange St., Suite 511
Buffalo, NY 14210

Senator Charles Schumer
U.S. Senate
130 South Elmwood Avenue, Suite 660
Buffalo, NY 14202

Representative Brian M. Higgins
Congressional District 27
726 Exchange Street, Suite 601
Buffalo, NY 14210

Representative Louise M. Slaughter
109th Congress – District 28
465 Main Street, Suite 105
Buffalo, NY 14203

ATTACHMENT 08
Contact List Information

Buffalo Development Corp.
Buffalo Development Corp. Hotel Site
Brownfield Cleanup Program Application

New York State Contacts:

Assemblymember Crystal D. Peoples
NYS Assembly – District 141
792 E. Delavan Avenue
Buffalo, NY 14215

Assemblymember Sam Hoyt
NYS Assembly – District 144
125 Main Street
Buffalo, NY 14203

Senator Marc Coppola
60th District, NYS Senate
65 Court St., Rm. 213
Buffalo, NY 14202

Senator William Stachowski
58th District, NYS Senate
2030 Clinton Street
Buffalo, NY 14206

Mr. Michael Basile
WNY Public Information Office
186 Exchange St.
Buffalo, NY 14204

Erie County Contacts:

Mr. Joel Giambra, County Executive
95 Franklin Street
Rath Building
Buffalo, NY 14202

Mr. George Holt
Legislator – District 3
427 William Street
Buffalo, NY 14204

Commissioner Michael Walters
Erie Co. Emergency Services
95 Franklin Street
Buffalo, NY 14202

Mr. Paul Kranz
Erie Co. Environment & Plan.
95 Franklin Street
Buffalo, NY 14202

Mr. Michael Raab
Erie Co. Environment & Plan.
95 Franklin Street
Buffalo, NY 14202

Commissioner Andrew Eszak
Erie Co. Environment & Plan.
95 Franklin Street
Buffalo, NY 14202

**ATTACHMENT 08
Contact List Information**

**Buffalo Development Corp.
Buffalo Development Corp. Hotel Site
Brownfield Cleanup Program Application**

Erie County Contacts:

Commissioner Anthony Billittier
Erie Co. Health Dept., Rm 931
95 Franklin Street
Buffalo, NY 14202

Mr. Paul Leone
Erie County IDA
275 Oak Street
Buffalo, NY 14203

Mr. Kevin Kelley
Erie County Legislature Clerk
25 Delaware Avenue
Buffalo, NY 14202

Mr. Patrick Daley
Erie County Local Emergency
95 Franklin Street
Buffalo, NY 14202

City of Buffalo Contacts:

Mayor Byron W. Brown
City Hall
Buffalo, NY 14202

Zoning Board:

James Lewis, III
Chairman
Room 1801, City Hall
Buffalo, NY 14202

Supplier of Potable Water:

Erie County Water Authority
350 Ellicott Square Building
295 Main Street
Buffalo, NY 14203

City of Buffalo Division of Water
City Hall
Buffalo, NY 14202

Local News Media:

ATTN: Jay Bonfatti
The Buffalo News
1 News Plaza
Buffalo, NY 14240

ATTN: Melanie Pritchard
WKBW-TV
7 Broadcast Plaza
Buffalo, NY 14202

ATTACHMENT 08
Contact List Information

Buffalo Development Corp.
Buffalo Development Corp. Hotel Site
Brownfield Cleanup Program Application

Local News Media:

WBEN News Radio 930
Entercom Radio of Buffalo
500 Corporate Pkwy, Suite 200
Buffalo, NY 14226

ATTN: Environmental News Desk
WIVB - CH. 4
2077 Elmwood Avenue
Buffalo, NY 14207

ATTN: Anne Marie Franczyk
Business First
465 Main Street
Buffalo, NY 14203-1793

Editor
Metro Community News
25 Boxwood Lane
Buffalo, NY 14227

Editor
Bee Group Newspapers
P.O. Box 150
Buffalo, NY 14231

News Director
WBEN Radio News/Talk 930
500 Corporate Pkwy. #200
Buffalo, NY 14226

ATTN: Environmental News Desk
WJYE
1700 Rand Building
Buffalo, NY 14203

ATTN: Environmental News Desk
WGRZ TV - CH. 2
259 Delaware Avenue
Buffalo, NY 14202

ATTN: Michael Desmond
WNED, Environmental News Desk
PO 1263, Horizons Plaza
Buffalo, NY 14240

ATTN: News Director
Citadel Communications
50 James Casey Dr.
Buffalo, NY 14206

ATTN: News Director
Infinity Broadcasting
14 Lafayette Square, #1300
Buffalo, NY 14203

ATTN: News Director
WB 49
699 Hertel Ave, Suite 100
Buffalo, NY 14207

Document Repository:

Buffalo & Erie County Public Library
Central Branch
1 Lafayette Square
Buffalo, NY 14203
Attn: Michael C. Mahaney, Director

ATTACHMENT 08
Contact List Information

Buffalo Development Corp.
Buffalo Development Corp. Hotel Site
Brownfield Cleanup Program Application

Nearby Schools:

Emerson Vocational High School
Principal: James G. Weimer, Jr.
70 W. Chippewa St.
Buffalo, NY 14202
716-816-3018

Empire State College
Dean: Nan M. DiBello, Ph.D.
Market Arcade
617 Main St.
Buffalo, NY 14203-1498
716-853-7700

Other Interested Groups:

Mr. Brian Smith
Citizens Campaign-Environment
3144 Main Street
Buffalo, NY 14214

WNY Director
Citizens' Env. Coalition
543 Franklin St., Rm. 2
Buffalo, NY 14202-1109

ATTACHMENT 08

Area Property Owners

**Buffalo Development Corp.
Buffalo Development Corp. Hotel Site
Brownfield Cleanup Program Application**

Property Address		Owner and Mailing Address
No.	Street	
259	Delaware Avenue	Multimedia Entertainment, Inc. 259 Delaware Avenue Buffalo, New York 14202
257	Franklin Street	Z Holding Corporation 257 Franklin Street Buffalo, New York 14202
265	Franklin Street	JDT Properties, LLC 265 Franklin Street Buffalo, New York 14202
280	Franklin Street	Buffalo Development Corp. 294 Franklin Street Buffalo, New York 14202
284	Franklin Street	286 Franklin Street, Inc. c/o AAA Distributors 286 Franklin Street Buffalo, New York 14202
642	Main Street	City of Buffalo Perfecting Title 2501 City Hall Buffalo, New York 14202
430	Pearl Street	Charles Davis I 426 Pearl Street Buffalo, New York 14202
439	Pearl Street	Shea's O'Connell Preservation Guild, Ltd. 646 Main Street Buffalo, New York 14202
452	Pearl Street	Paul Ramunno 247 North Drive Buffalo, New York 14216
470	Pearl Street	470 Pearl Street, LLC 297 Franklin Street Buffalo, New York 14202
622	Main Street	Acquest Theater Place, LLC 80 Curtwright Drive Williamsville, New York 14221

ATTACHMENT 09

DOCUMENT REPOSITORY CONFIRMATION LETTER

June 22, 2006

Michael C. Mahaney
Library Director
Buffalo & Erie County Public Library
Central Branch
1 Lafayette Square
Buffalo, New York 14203

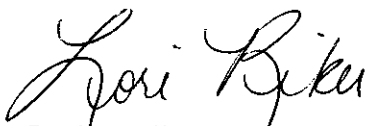
Re: Document Repository for Brownfield Cleanup Program
Buffalo Development Corp.
275/277 & 279 Franklin and 432 Pearl Street Site, Buffalo, New York

Dear Mr. Mahaney,

Per my telephone conversation with your office receptionist, thank you for agreeing to the Central Library acting as the document repository for the above-referenced Site.

Please contact me or Mr. Patrick Martin at 856-0599 if you have questions or require additional information.

Sincerely,
Benchmark Environmental Engineering & Science, PLLC



Lori E. Riker, P.E.
Project Engineer

c: File: 0099-003-100

ATTACHMENT 10

ENVIRONMENTAL FACTORS AND HISTORIC LAND USE CONSIDERATIONS

Attachment 10
Environmental Factors & Historic Land Use Considerations

Buffalo Development Corp.
Buffalo Development Corp. Hotel Site
Brownfield Cleanup Program Application

INTRODUCTION

The following provides a brief summary of the Site:

- There are no State or Federal wetlands or floodplains on the Site (see attached figure); however, Federal wetlands are located approximately 0.75 miles to the west adjacent to Lake Erie. State wetlands are located more than one mile southwest of the Site.
- A 100-year floodplain is located approximately 0.75 miles southwest of the Site (i.e., Lake Erie).
- The Site is not adjacent to a Significant Coastal Fish and Wildlife Habitat.
- There are no threatened or endangered species or important plant habitats listed at the Site.

ATTACHMENT 11

NEARBY LAND USE

Attachment 11
Surrounding Land Use Description

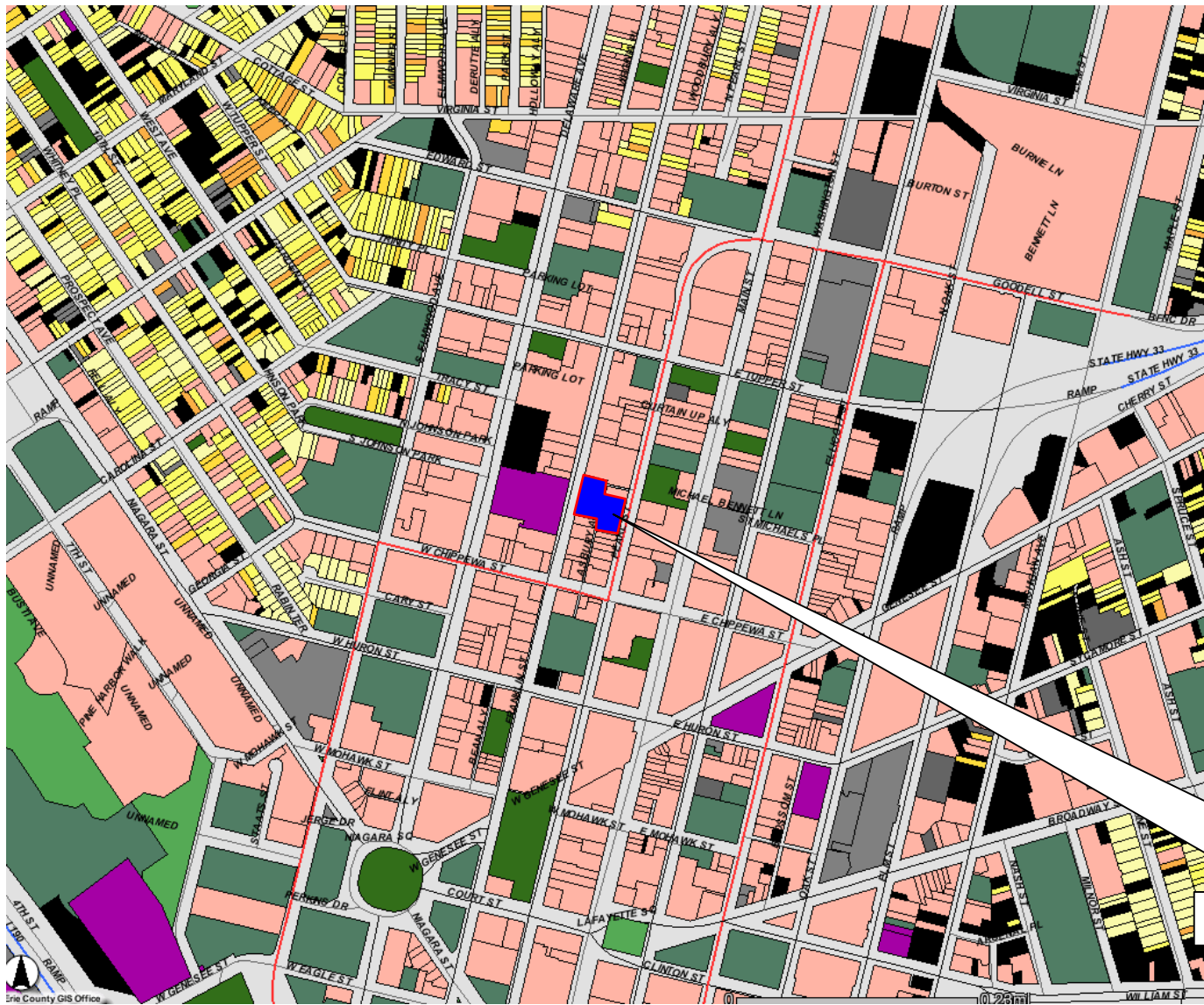
Buffalo Development Corporation
Buffalo Development Corporation Hotel Site
Brownfield Cleanup Program Application

SURROUNDING LAND USE DESCRIPTION

The subject property (Site) is currently developed with one apartment building and an asphalt covered surface parking lot comprised of four contiguous parcels of land totaling approximately 0.97 acres in the City of Buffalo, County of Erie, New York (see Figures 1-1 and 1-2).

The Site is bound by a surface parking lot and restaurant to the north, Pearl Street to the east, Franklin Street to the west, and a commercial printing shop to the south. Additionally, Asbury Alley runs through the Site in an approximate north-south direction.

The surrounding land-use is mixed use, predominately developed with commercial, public service and entertainment use properties (see Figure 11-1). The Site neighbors include various commercial buildings or surface parking lots surrounding the Site. Shea's Performing Arts Center is located across Pearl Street to the east of the Site. There are no private residences adjacent to the Site (besides the on-Site apartment building). A surrounding land-use map is included in Attachment 11.



Layers

- Municipalities
- Parcels (Landuse)**
- Resid. Single Family
- Resid. Two Family
- Resid. Three Family
- Other Residential
- Vacant
- Commercial
- Recreational
- Community Service
- Industrial
- Public Service
- Conservation Area / Park
- Other
- Railroads
- Road Names**
- Local Roads**
- Interstate
- Primary Federal / State
- Secondary State / County
- Local Road

Buffalo Development Corp.



726 EXCHANGE STREET
 SUITE 624
 BUFFALO, NEW YORK 14210
 (716) 856-0599

LAND USE MAP
 BROWNFIELD CLEANUP PROGRAM APPLICATION
 BUFFALO DEVELOPMENT CORP. SITE
 BUFFALO, NEW YORK

PREPARED FOR
 BUFFALO DEVELOPMENT CORPORATION

PROJECT NO.: 0099-002-100
 DATE: MAY 2007
 DRAFTED BY: BCH/NTM

FIGURE 11-1

ATTACHMENT 12

GROUNDWATER VULNERABILITY ASSESSMENT

Attachment 12
Groundwater Vulnerability Assessment

Buffalo Development Corp.
Buffalo Development Corp. Hotel Site
Brownfield Cleanup Program Application

POTENTIAL VULNERABILITY OF GROUNDWATER TO CONTAMINATION

Groundwater at the Site is contaminated as a result of impacts from the former dry cleaning activities at 275 Franklin Street. Currently, there are no deed restrictions on the use of groundwater at the Site; however, groundwater supply wells are not present on the Site. Regionally, groundwater in the area has not been developed for industrial, agriculture, or public supply purposes. Municipal potable water service is provided on-site and off-site by the Erie County Water Authority.

Historical investigations, including a Remedial Investigation (RI) completed in November 2006 through January 2007, have shown that groundwater across the Project Redevelopment Area has been significantly impacted by chlorinated volatile organic compounds (VOCs), which is likely a result of industrial activities on 275 Franklin Street (i.e., dry cleaning operations). Dry cleaning operations have ceased and the building and infrastructure have been demolished.

GROUNDWATER FLOW/RECHARGE

During the RI, unconfined groundwater was encountered at the Site within the native soil at depths of approximately 8 to 12 fbs. Site groundwater flow direction is estimated to the southwest. Regional groundwater appears to flow west/southwest toward Lake Erie.

Hydraulic conductivity testing of the shallow aquifer was conducted via slug testing during the RI. Average hydraulic conductivity was estimated at 6.4×10^{-4} centimeters per second (cm/sec) using the Bouwer and Rice Method. Average groundwater velocity was estimated at 1.1×10^{-5} cm/sec or 3.0×10^{-2} feet per day (ft/day) assuming an effective porosity of 0.35 and an average hydraulic gradient of 0.005.

ATTACHMENT 13

DESCRIPTION OF SITE GEOGRAPHY/GEOLOGY

Attachment 13
Description of Site Geography/Geology

Buffalo Development Corp.
Buffalo Development Corp. Hotel Site
Brownfield Cleanup Program Application

ECOLOGICAL SETTING

The Site is not vegetated due to the presence of surface parking lots. Viable aquatic habitats in the vicinity of the Site include the Buffalo River (approximately 1 mile southwest) and Lake Erie (approximately 0.75 miles west). Federal wetlands are located approximately 0.75 miles to the west adjacent to Lake Erie. State wetlands are located more than one mile southwest of the Site.

DEMOGRAPHY AND LAND USE

The Site is currently owned (275-277 Franklin Street, 279 Franklin Street and 432 Pearl Street) or under a pending purchase contract (267 Franklin Street) by Buffalo Development Corporation. The site consists of asphalt paved surface parking lots and one residential apartment building located at 267 Franklin Street. Land use surrounding the Site includes commercial properties, public property, and recreational/community properties (see Figure 11-1).

REGIONAL GEOLOGY & HYDROGEOLOGY

The Site is located within the Erie-Ontario lake plain physiographic province, which is typified by little topographic relief and gentle slope toward Lake Erie, except in the immediate vicinity of major drainageways (USDA, 1978). The surficial geology of the Lake Erie Plain consists of a thin glacial till (if present), glaciolacustrine deposits, recent alluvium, and the soils derived from these deposits (see Figure 13-1). Glacial till deposits are not encountered on this Site.

Glaciolacustrine deposits are characterized as thinly bedded to laminated silts and clays, which were deposited in lakes impounded between glacial ice and ice-free highland areas. As the glacial ice retreated northward in Erie County, water depths decreased and coarser grained shallow water sediments were deposited. These shallow water deposits included sandy beach ridges that defined lake edges, sand bars associated with offshore currents, and near shore silty fine sands. These sands exist below soil/fill at the Site.

Surface soils within the City are characterized as urban land with level to gently sloping land in which 80 percent or more of the soil surface is covered by asphalt, concrete, buildings, or other impervious structures (USDA, 1978) typical of an urban environment. The presence of overburden fill material is widespread and common throughout the City of Buffalo.

Attachment 13
Description of Site Geography/Geology

Buffalo Development Corp.
Buffalo Development Corp. Hotel Site
Brownfield Cleanup Program Application

Based on the bedrock geologic map of Erie County (Buehler and Tesmer, 1963), the Site is situated over Onondaga Formation of the Middle Devonian Series (see Figure 13-2). The Onondaga Formation is comprised of a varying texture from coarse to very finely crystalline with a dark gray to tan color and chert and fossils within. The unit has an approximated thickness of 110 to 160 feet.

Structurally, the bedrock formations strike in an east-west direction and exhibit a regional dip that approximates 40 feet per mile (3 to 5 degrees) toward the south and southwest. As a result of this dip, the older Onondaga limestone outcrops or subcrops north of the Hamilton Group. An intersecting, orthogonal pattern of fractures and joint sets are common throughout the bedrock strata. The surficial geomorphology of the bedrock strata was modified by period subaerial erosion and continental glaciation.

SITE GEOLOGY

Site overburden soils have been described as soil/fill to approximately 3- to 4-feet below ground surface (fbgs) overlying native glaciolacustrine sand and silt.

The U.S. Department of Agriculture Soil Conservation Service soil survey map of Erie County¹ describes the general soil type at the Site as urban land. Field characterization confirms the presence of fill over much of the Site.

One exploratory soil boring completed during the RI encountered bedrock below the Site at approximately 52 fbgs.

SITE GROUNDWATER

During the RI, unconfined groundwater was encountered at the Site within the native soil at depths of approximately 8 to 12 fbgs. Site groundwater flow direction is estimated to the southwest. Regional groundwater appears to flow west/southwest toward Lake Erie

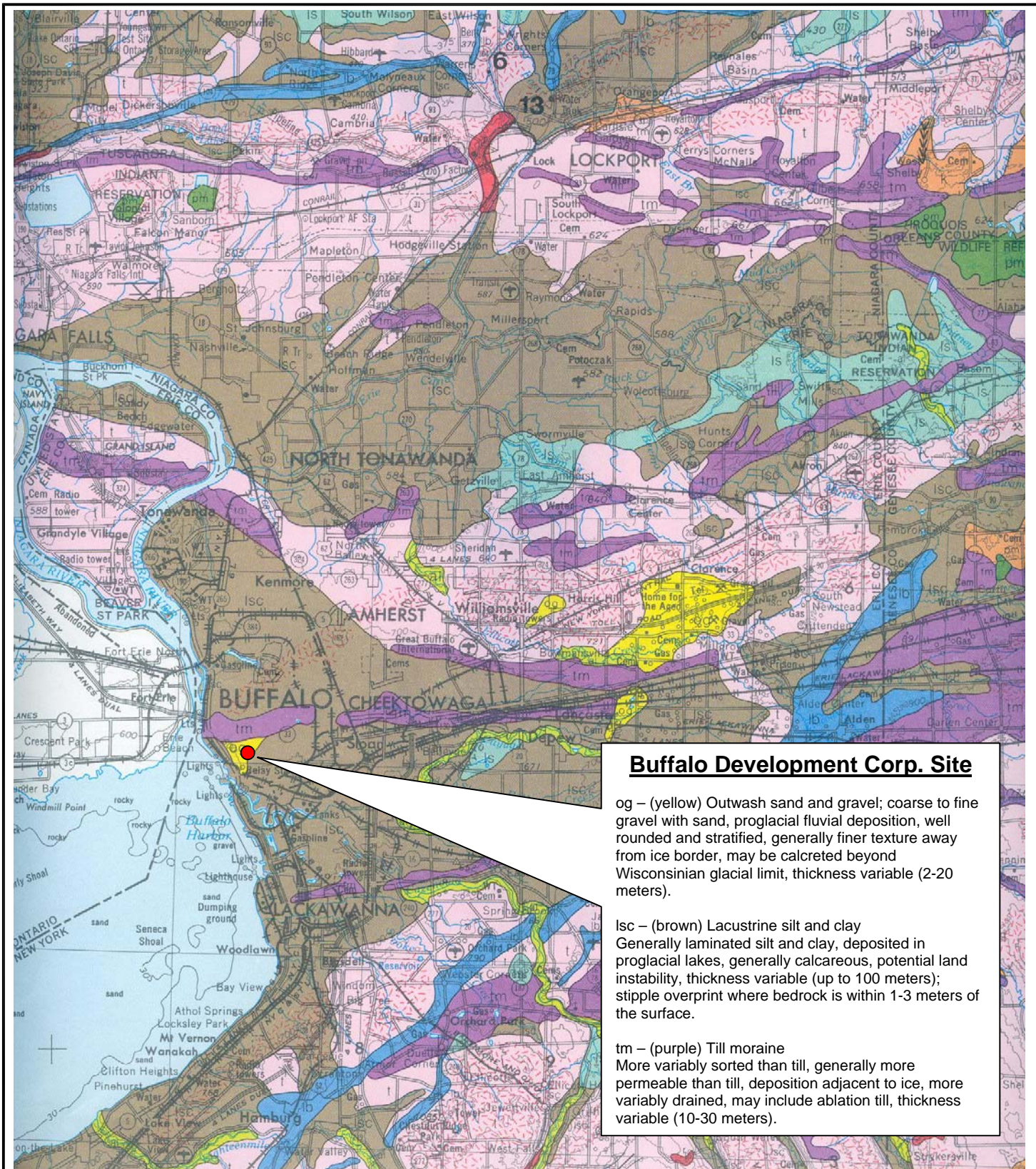
¹ U.S. Dept. of Agriculture Soil Conservation Service Soil Survey of Erie County, New York, issued October 1972.

Attachment 13
Description of Site Geography/Geology

Buffalo Development Corp.
Buffalo Development Corp. Hotel Site
Brownfield Cleanup Program Application

GROUNDWATER RECHARGE & DISCHARGE

Recharge to the Site water table is primarily from rainfall and snowmelt. Precipitation may infiltrate into the soil/fill present on the Site; however asphalt cover and storm water receptors across the site divert precipitation to the storm water sewer system.



Buffalo Development Corp. Site

og – (yellow) Outwash sand and gravel; coarse to fine gravel with sand, proglacial fluvial deposition, well rounded and stratified, generally finer texture away from ice border, may be calcreted beyond Wisconsinian glacial limit, thickness variable (2-20 meters).

isc – (brown) Lacustrine silt and clay
Generally laminated silt and clay, deposited in proglacial lakes, generally calcareous, potential land instability, thickness variable (up to 100 meters); stipple overprint where bedrock is within 1-3 meters of the surface.

tm – (purple) Till moraine
More variably sorted than till, generally more permeable than till, deposition adjacent to ice, more variably drained, may include ablation till, thickness variable (10-30 meters).



726 EXCHANGE STREET
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(716) 856-0599

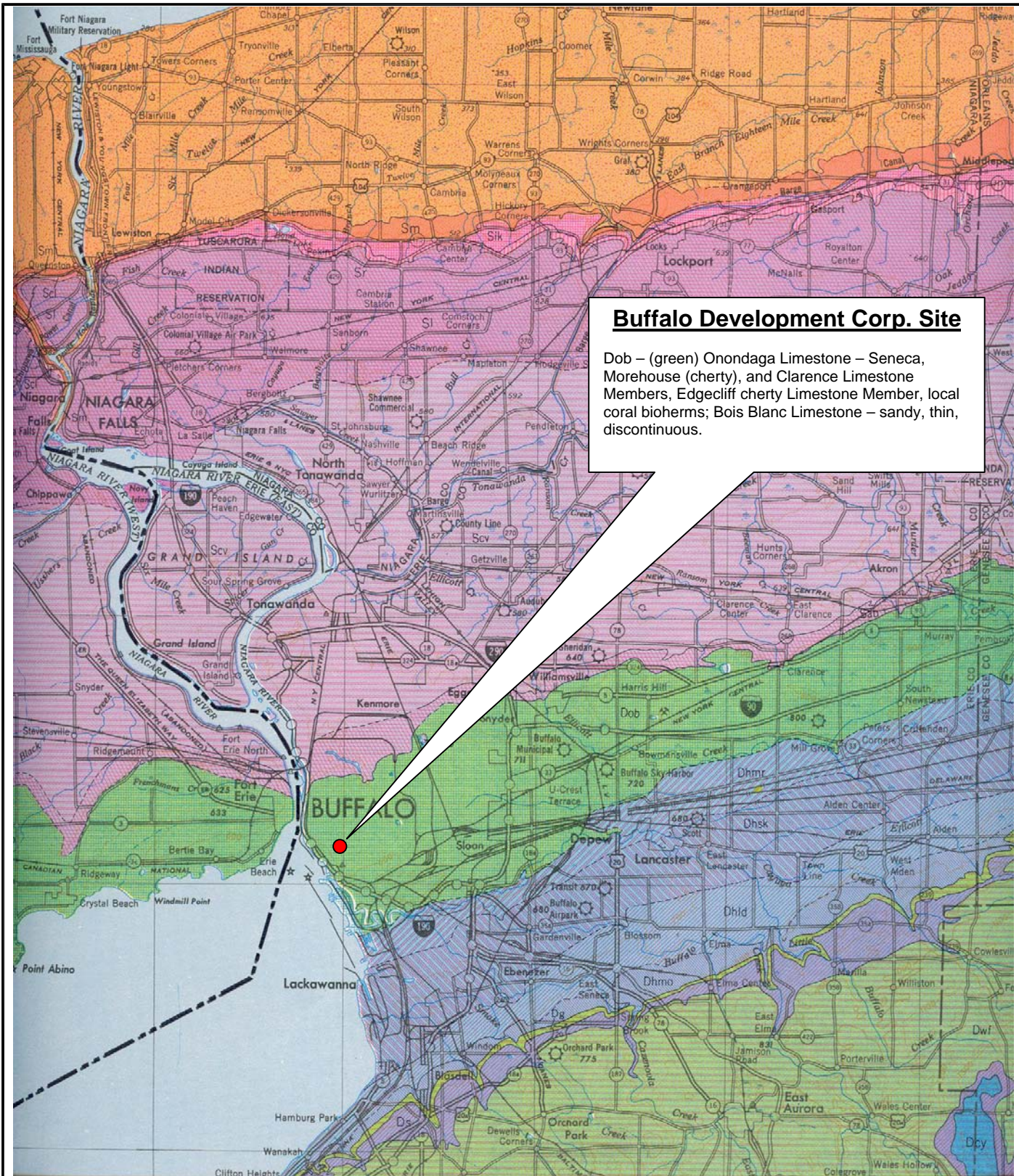
SOIL TYPE MAP
BROWNFIELD CLEANUP PROGRAM APPLICATION
BUFFALO DEVELOPMENT CORP. SITE
BUFFALO, NEW YORK

PROJECT NO.: 0099-002-100

DATE: MAY 2007

DRAFTED BY: BCH/NTM

PREPARED FOR
BUFFALO DEVELOPMENT CORPORATION



726 EXCHANGE STREET
 SUITE 624
 BUFFALO, NEW YORK 14210
 (716) 856-0599

PROJECT NO.: 0099-002-100

DATE: MAY 2007

DRAFTED BY: BCH/NTM

REGIONAL BEDROCK MAP
 BROWNFIELD CLEANUP PROGRAM APPLICATION
 BUFFALO DEVELOPMENT CORP. SITE
 BUFFALO, NEW YORK

PREPARED FOR
 BUFFALO DEVELOPMENT CORPORATION